Pharmacy
Acknowledgements

The Arms of the University

Sidere mens eadem mutato
Though the constellation may change
the spirit remains the same

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2. The information in this handbook was as accurate as possible at the time of printing. The University reserves the right to make changes to the information in this handbook, including prerequisites for units of study, as appropriate. Students should check with faculties for current, detailed information regarding units of study.

Official course information
Faculty handbooks and their respective online updates along with the University of Sydney Calendar form the official legal source of information relating to study at the University of Sydney. Please refer to the following websites:
www.usyd.edu.au/handbooks
www.usyd.edu.au/calendar

Amendments
All authorised amendments to this handbook can be found at www.usyd.edu.au/handbooks/handbooks_admin/updates.shtml

Disability access
Accessible versions of this document in Microsoft Word are available at www.usyd.edu.au/handbooks/handbooks_disability/index.shtml

Resolutions
Resolutions must be read in conjunction with the University of Sydney (Coursework) Rule 2000 (as amended), which sets out the requirements for all undergraduate courses, and the relevant Resolutions of the Senate.

Price
The price of this handbook can be found on the back cover and is in Australian dollars. The price includes GST.

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Production
Publications Office
Website: www.usyd.edu.au/publications

Printing
University Publishing Service
Website: www.usyd.edu.au/ups/

Handbook enquiries
For any enquiries relating to the handbook, please email the Publisher at handbooks@publications.usyd.edu.au

Address
University of Sydney
NSW 2006, Australia
Phone: + 61 2 9351 2222
Website: www.usyd.edu.au

CRICOS Provider Code 00026A
ISSN: 1834-9544
ISBN: 978-1-86487-908-7

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## University semester and vacation dates for 2008

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For the latest dates please refer to www.summer.usyd.edu.au/summer_winter/

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<tr>
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<td>Study vacation</td>
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<tr>
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<td>Monday 21 July and Tuesday 22 July</td>
<td>International student orientation (Semester Two) - STABEX</td>
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<td>Lectures begin</td>
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<td>AVCC Common Week/non-teaching period</td>
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<td>Examination period</td>
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<tr>
<td>Saturday 22 November</td>
<td>Semester ends</td>
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*Except for the Faculties of Dentistry and Medicine and the Master of Pharmacy course. See www.acer.edu.au for details.

### Last dates for withdrawal or discontinuation for 2008

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<tr>
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<td>Last to discontinue (Discontinued - Fail)</td>
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<td>Last day to add a unit</td>
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<td>Sunday 31 August</td>
<td>Last day for withdrawal</td>
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<td>Last day to discontinue (Discontinued - Fail)</td>
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<td>Anzac Day</td>
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<tr>
<td>Monday 9 June</td>
<td>Queen's Birthday</td>
</tr>
<tr>
<td>Monday 6 October</td>
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*Census date of the unit, which must not be earlier than 20 per cent of the way through the period of time during which the unit is undertaken.*

To view the latest update, download, purchase or search a handbook visit Handbooks online. http://www.usyd.edu.au/handbooks
What is a handbook?
The handbook is an official publication and an essential guide for every student who studies at the University of Sydney. It is an important source of enrolment information. It can also help you with more than just planning your course of study.

As a student at the University of Sydney you need to be aware of course structures and content, who your lecturers are, as well as examination procedures. You should also become familiar with University policies and faculty rules and regulations. The handbook will supply a lot of this information.

It will also point you to places and people around the University who can help you with enquiries about library loans, childcare, fees, casual employment, places to eat and stay, support groups and much, much more.

What new students need to know
• terminology used for courses and programs of study
• semester dates and examination periods
• important contact details
• how to plan your study program
• rules and policies on assessment, satisfactory progression, honours etc.
• what University services are available and where to find them
• how to get around your campus

At the beginning of many of these chapters there will be explanations to help you proceed further.

Where to find what
Course terminology
University terminology – like ‘credit point’, ‘unit of study’, ‘WAM’ etc – can be found at the back of all handbooks.

Definitions of all terminology are located in the General University information section under Abbreviations and Glossary, at the back of this handbook.

Dates
The start and finish dates of semester can be found in the front section of the handbook. Summer School dates are in the General University section at the back of the book.

Contents and index
The comprehensive contents section at the front of the handbook explains the details you’ll find within each chapter.

You’ll find information like:
• how and where to contact Faculty staff
• how to select your units of study and programs
• a list of degrees
• detailed information on all units of study – classified by unit identifiers (a four-alpha, four-digit code and a title)
• electives and streams
• scholarships and prizes
• information specific to faculties

The index lists units of study only. It allows you to check every reference which refers to your unit of study within the handbook. It is divided into two parts, and lists units of study alphabetically (by course name) and again by course code (alphanumeric), for your convenience.

Colour-coded sections
• Ivory – for undergraduate courses
• Blue – for postgraduate courses

Faculty rules and regulations
Faculty resolutions are the rules and regulations pertaining to a specific faculty. They can generally be found in their own chapter, or next to the relevant units of study.

These should be read along with the University’s own Coursework Rule 2000 (as amended) which can be found in the University Calendar at www.usyd.edu.au/calendar. Together they outline the agreement between student and faculty, and student and University.

General University information
This is information about the University in general, rather than information specific to the faculty. This information is at the back of the book and includes, among other things:
• University terminology and abbreviations
• campus maps to help you find your way around
• Summer School information
• international student information
• student services
• where to find the University Coursework Rule and PhD Rule.

Course planner
You might like to plot the course of your degree as you read about your units of study. This planner can be found at the back of the handbook.

Timetables
For information about personal timetables, centrally timetabled units of study, and venue bookings, see www.usyd.edu.au/studentcentre/timetabling.shtml.

For the session calendar, see http://web.timetable.usyd.edu.au/calendar.jsp

Students with a disability
Accessible versions of this document, including word, pdf and html versions are available at www.usyd.edu.au/handbooks/handbooks_disability/.

You can find information on Disability Services in the General University information section of the handbook. The Service can provide information regarding assistance with enrolment and course requirement modifications where appropriate.

For details on registering with the Service and online resources see the Disability Services website: www.usyd.edu.au/disability.

Handbook updates
The information in the handbook is current at the time of publication. Updated information to handbooks and references to University policies such as plagiarism and special consideration, among others can be found in the University’s website.

Feedback regarding the Handbook is welcome. Visit www.usyd.edu.au/handbooks
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Welcome to the Faculty of Pharmacy at the University of Sydney.

Pharmacy at the University of Sydney has an enviable tradition of excellence in teaching, research and scholarship in pharmacy practice and the pharmaceutical sciences.

This University’s involvement with the training of pharmacists began in 1899, and in 1960 this University became the first in Australia to offer an undergraduate Bachelor of Pharmacy degree.

Currently, the faculty offers one of the leading pharmacy education programs in Australia with an enviable national and international reputation. As a student in the faculty, you will be trained and mentored by internationally renowned academics and will have access to teaching laboratories that are developed using the world’s best practice techniques. The faculty’s innovative teaching programs will provide the very best training for your future professional pharmacy career.

This reputation for innovation in teaching and research is highlighted by the faculty’s inclusion of a Talented Students Program, offered to undergraduate students with superior academic ability. This program recognises exceptional quality of our undergraduate students and enables students to realise their full academic potential. At the postgraduate professional level, the faculty now offers a Master of Pharmacy program which leads to professional registration as a pharmacist. This program, first offered in 2004, has a strong clinical and experiential focus and provides an alternative and accelerated entry pathway to the pharmacy profession for applicants with a prior degree. This initiative has assisted in alleviating the existing and projected shortage of pharmacists. The first cohort of MPPharm graduates completed their registration training in late 2006.

The faculty’s postgraduate research programs reflect the strong research capability and focus of the faculty’s academic staff. Currently there are over 60 postgraduate research students, often drawn from the Advanced (Honours) program offered at the undergraduate level. Students with research potential and interest are encouraged to take the Advanced program during their bachelor degree. In addition, the Master of Philosophy research program was offered for the first time in 2007.

The faculty regularly reviews and refines its undergraduate and postgraduate degree programs. Such review processes include a range of opportunities for student feedback and input. In 2006 the faculty established the Pharmacy Education Unit to formalise the management of the curriculum review process. As a result of such a review a new BPharm curriculum is being introduced from 2008. This unit also conducts pharmacy education research, assists staff in applying for educational research funding, supports distance learning and the use of education technology and has established a professional development program for faculty staff. All these initiatives are designed to ensure that we provide our students with the best possible learning and teaching environment and outcomes.

I encourage you to participate fully in academic and other activities within the faculty and the University, particularly through our students association, Sydney University Pharmacy Association (SUPA). Apart from providing students with access to a range of academic, professional and social activities, elected SUPA representatives from each year interact with faculty staff to provide feedback as well as formal input into the quality assurance processes of the faculty. Postgraduate student representatives also have the same opportunities for input and feedback.

A Pharmacy qualification from the University of Sydney offers many and varied career choices including the ability to serve the Australian community and improve the quality of their health and rational use of their medicines. You have the opportunity to interact with individuals in the community and, through your intervention, improve their quality of life. Whether you are a new or a continuing Pharmacy student, the Faculty of Pharmacy welcomes you and wishes you a productive 2008.

Iqbal Ramzan
An introduction to Pharmacy

About this handbook
There are three main sections in this handbook:

- **General information about the Faculty of Pharmacy:** Chapter 1
- **Undergraduate course information:** Chapters 2 and 3
- **Postgraduate course information:** Chapters 4 and 5

Course outlines
The course outline tables set out the required units of study to be undertaken by students in each year of their enrolled course.

Units of study
The units of study section follows the course outline tables in alphabetical order by unit code (e.g. BIOL1003).

Details of each unit offered in the current academic year are provided, e.g. course content, credit points, semester offered and assessment.

FAQs
For more information students can go to the Pharmacy website, where you can find answers to many frequently asked questions and much more about the courses on offer.

A brief history of the Faculty of Pharmacy
Pharmacy at the University of Sydney has an established tradition of excellence in research and scholarship in pharmacy practice and the pharmaceutical sciences. The University’s involvement with the education of pharmacists began in 1899. Among the earlier teachers, Horace Finnemore, appointed lecturer in 1927, had a strong research background. Nevertheless, research in Pharmacy essentially commenced in 1949 with the arrival from the Burroughs Wellcome Laboratories of Roland H Thorp as Professor of Pharmacology and Director of Pharmaceutical Studies, followed by Sydney E Wright in 1950. From the outset, Wright had the vision to develop active research in the Pharmaceutical Sciences and the programs he initiated were carried on by his associates well into the ’80s and ’90s. Wright was appointed to the first Chair in Pharmaceutical Chemistry in 1960 upon the introduction of the Bachelor of Pharmacy degree course. This introduction marked the beginning of pharmacy degree programs in Australia.

In the 1990s, the undergraduate program underwent a number of changes, including the introduction of courses in pharmacy practice. In 1996, the Department began the transition of the three year undergraduate degree into a four year program, with the first graduation of four year graduates occurring in 2001. In July 1997, the Herbal Medicines Research and Education Centre (HMREC) was established as part of the Department of Pharmacy to undertake and promote high quality research and education on herbal and complimentary medicines. On 1 January 2000, the Faculty of Pharmacy was established, becoming the first such faculty in Australia.

Demand for undergraduate places in the Bachelor of Pharmacy degree has always been high, with over 1000 prospective students listing Pharmacy as their first preference for 2007. Of those expressing a preference for pharmacy, over two-thirds were recent school leavers. Of the non-recent school leavers, a significant number already held an undergraduate degree. Demand for the two-year MPharm professional degree is also very strong. With approximately 160 postgraduate coursework and research students, the faculty has the largest postgraduate Pharmacy program in Australia.

Pharmacy has many collaborative research projects with other faculties of the University, with teaching hospitals, with research institutes, with the pharmaceutical industry, and with the profession. Research in Pharmacy covers a broad spectrum of pharmaceutical and clinical sciences ranging from the design, synthesis, testing and mechanism of action of drugs, through studies on methods of drug delivery and on the fate of drugs in humans and animals, to research on the clinical and sociological aspects of pharmacy.

Sydney University Pharmacy Association
Sydney University Pharmacy Association (SUPA) represents the interests of pharmacy students at the University of Sydney. For over 40 years SUPA has been providing services, organising social events and representing our members on campus, and to the wider profession and community.

What does SUPA do?
- SUPA organises over 12 social events each year, including pub crawls, barbecues, trivia nights, cruises, an annual ski trip, annual ball and more.
- We are often asked to help out at pharmacy events in Sydney, and SUPA coordinates the student participation at such events.
- Similarly, we assist the Faculty of Pharmacy at student information days and open days at the University.
- We sell reference books, textbooks, and dispensing equipment required for the course at substantially reduced prices.
- We organise annual second-hand textbook sales, allowing students to easily buy and sell books from other students.
- We provide student input at the Faculty of Pharmacy’s Teaching and Learning Committee.
- Our year representatives present student issues and represent students at staff-student liaison meetings.
- We design and sell merchandise, including the fourth-year jersey and our (in)famous annual t-shirt.
- We coordinate the Pharmacy teams in the interfaculty sporting competitions.
- We are the contact point between pharmacy organisations, such as the Pharmaceutical Society of Australia, and students.
- We can provide you with advice and refer you to the right people for any issues or enquiries you might have as a pharmacy student.
- We publish our newsletter The Mortar on a regular basis.
- We receive several leading pharmacy publications such as Pharmacy News and offer copies to members for free.
- All SUPA members are automatically members of National Australian Pharmacy Students Association (NAPSA), and receive all NAPSA benefits too.
- All members of NAPSA are also members of the International Pharmaceutical Students’ Federation (IPSF). This allows our members to gain a national and international perspective, and the associated membership benefits of these larger organisations.
- In conjunction with the PSA Young Pharmacists Group we co-ordinate an annual careers night to educate students on the career opportunities available to them on the completion of their degree.
- We provide support mechanisms to incoming students ensuring transition to university, with a particular focus on the unique challenges that pharmacy students face.

Meredith Kennedy
SUPA President 2007–08
1. About the faculty

General enquiries
Pharmacy and Bank Building A15
University of Sydney, NSW 2006
Phone: +61 2 9351 2320
Fax: +61 2 9351 4391
Email: enquiries@pharm.usyd.edu.au
Web: www.pharm.usyd.edu.au

Information and advice

Student Services Office
Main Office, Pharmacy and Bank Building A15
Open Monday to Friday, 9am to 5pm
Phone: +61 2 9351 2320 (main line)
Fax: +61 2 9351 4391

Undergraduate enquiries
Phone: +61 2 9036 9293
Email: ug@pharm.usyd.edu.au

Postgraduate enquiries
Phone: +61 2 9036 9552
Email: pg@pharm.usyd.edu.au

Student Services staff will direct your enquiry to the appropriate staff member.

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Phone: +61 2 9351 2077
Fax: +61 2 9351 6950

Faculty Manager
Main Office
Phone: +61 2 9351 8583
Fax: +61 2 9351 4391

Herbal Medicines Research and Education Centre
Room N411
Phone: +61 2 9351 4435
Fax: +61 2 9351 8638

Pharmacy Practice Foundation
Pharmacy Alumni Association
Phone: +61 2 9351 2668
Fax: +61 2 9351 3980
Web: www.pharm.usyd.edu.au/ppf/

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Dean
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Pro Dean
Professor Basil Don Roufogalis

Associate Deans
Dr Alaina Ammit (Research)
Professor Jo-anne Brien (Admissions and Administration)
Associate Professor Mary Collins (Postgraduate)
Dr Jane Hanrahan (Undergraduate)

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Administrative Assistant to Professorial Staff
Eleanor Luntao, BA San Carlos

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Professor of Pharmacy Practice
Shalom Isaac Benrimoj, BPharm PhD Bradford, MPS

Professor of Pharmaceutics (Advanced Drug Delivery)
Hak-Kim Chan, BPharm NDMA Taipei PhD

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MRPharmS MSHPA

Chair of Pharmacy Aged Care (Concord Hospital)
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Michael Murray, BPharm PhD DSc

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Professor of Pharmaceutical Chemistry
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Johnson and Johnson – Pharmacy Practice Foundation Chair of Pharmacy Management
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Synthia Bosnic-Anticevich, BPharm PhD
Timothy F Chen, BPharm DipHPHarm PhD, MPS
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Colin C Duke, BSc Qld PhD James Cook, MRACI
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Paul Young, BSc (Hons) W.England PhD Bath

Lecturers
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Betty Bouad Chaar, BPharm MHL, MPS
Romano Fois, BPharm PhD

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1. About the faculty

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Рамин Раханизаде, BSc Tehran MSc PhD Nantes
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Еріка Сейнбір, BPharm (Hons) MSc GradDipEdStudies(Higher Education), MPS MACE FHERDSA
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Селіна Сеето, BMedSc (Hons) PhD
Тіна Наумовська BE (Hons) BSc UNSW PhD

Academic (Research only)
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Юхуо Лі, BMed MMed Guangzhou PhD Japan KPU
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Александра Беннетт, BPharm DipPharm
Мелісса Чапман BPharm
Калед Едді, BPharm MSc UTS
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Мічел Пек, BPharm GradDip Hobart
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NSW, AACPA, RPSGB
Вікі Критікос, BPharm MPharm (Clinical)

Pharmacy Education Unit
Director
Грег Рyan, MA PhD

Educational Designer
Джім Wоulfe, BA Macq. MEd W’gong
2. Undergraduate degree requirements

Introduction

The information in this chapter is in summary form and is subordinate to the provisions of the degree Resolutions, which can be found in Chapter 3.

Results

For all units of study in the Bachelor of Pharmacy degree, the following mark ranges apply:

<table>
<thead>
<tr>
<th>Abrev</th>
<th>Grade</th>
<th>Mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD</td>
<td>High Distinction</td>
<td>85–100</td>
</tr>
<tr>
<td>D</td>
<td>Distinction</td>
<td>75–84</td>
</tr>
<tr>
<td>CR</td>
<td>Credit</td>
<td>65–74</td>
</tr>
<tr>
<td>P</td>
<td>Pass</td>
<td>50–64</td>
</tr>
<tr>
<td>R</td>
<td>Satisfied requirements</td>
<td>50–64</td>
</tr>
<tr>
<td>AF</td>
<td>Absent Fail</td>
<td>Below 50</td>
</tr>
</tbody>
</table>

Honours

The following Honours grades apply from 2008. A grade of Honours is determined by the HWAM and final mark in Advanced units of study.

<table>
<thead>
<tr>
<th>Grade</th>
<th>HWAM</th>
<th>Minimum average mark in Advanced units</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1M</td>
<td>85</td>
<td>90</td>
</tr>
<tr>
<td>H1</td>
<td>75</td>
<td>85</td>
</tr>
<tr>
<td>H21</td>
<td>70</td>
<td>80</td>
</tr>
<tr>
<td>H22</td>
<td>65</td>
<td>75</td>
</tr>
</tbody>
</table>

Bachelor of Pharmacy

Summary of requirements

The degree is a full-time four year course with progression towards the degree by the accumulation of credit points. The requirements are set out in the Senate Resolutions, which should be read by all intending candidates (see University Calendar). The degree may be awarded at the Pass or Honours level.

To satisfy the requirement for the degree candidates must gain a minimum of 192 credit points by completing the units of study prescribed for the degree.

2008 new curriculum

From 2008 a new Bachelor of Pharmacy curriculum will be introduced into first year.

The new curriculum allows students to undertake the study of a Major in their final year of the program. Majors are offered in Rural Pharmacy, Industrial Pharmacy and International Pharmacy. These majors allow students to participate in a range of activities including extended placements in rural or industrial environments or to participate in an exchange program.

Students prior to 2008 will continue with the current curriculum. Years 2 to 4 of the new curriculum will be introduced progressively from 2009 onwards. Table 1 refers to the Year 1 units of study in the new curriculum, however units of study for Years 2 to 4 are listed for students enrolled prior to 2008.

Assumed knowledge

It should be noted that most of the first year units of study will be taught on the assumption that students have reached the standard of assumed knowledge specified in Table 1.

Prerequisites and corequisites

To be eligible to enrol in Second Year, Third Year and Fourth Year units of study, students must have completed the prerequisite unit(s) of study. Any corequisite unit(s) of study not previously completed must be taken concurrently (see Table 1).

Registration requirements for pharmacists

A student who intends to qualify to be registered as a pharmacist under the Pharmacy Act 1964 is first required to qualify for the degree of Bachelor of Pharmacy. In addition he or she is required to serve not less than 2000 hours as an assistant to a registered pharmacist in a pharmacy within Australia. This period must be served following the successful completion of the degree.

Further details concerning the requirements for registration can be obtained from the Pharmacy Board of New South Wales:

3rd Floor, 28 Foveaux Street
Surry Hills, NSW 2010
tel: +61 2 9281 7736
fax: +61 2 9281 2924
Postal Address: Locked Bag 2, Haymarket NSW 1240.

Degree resolutions

See chapter 3.
### Undergraduate units of study

**Table 1: Bachelor of Pharmacy pass degree and honours degree**

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Year</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL1003 Human Biology</td>
<td>6</td>
<td>A HSC 2-unit Biology</td>
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</tr>
<tr>
<td>CHEM1611 Chemistry A (Pharmacy)</td>
<td>6</td>
<td>A HSC Chemistry and Mathematics</td>
<td>Department permission required for enrolment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHAR1611 Foundations of Pharmacy</td>
<td>6</td>
<td>A HSC Chemistry</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHAR1812 Basic Pharmaceutical Sciences</td>
<td>6</td>
<td>A HSC Chemistry</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM1612 Chemistry B (Pharmacy)</td>
<td>6</td>
<td>C CHEM1611 Chemistry A (Pharmacy)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MBLG1001 Molecular Biology and Genetics (Intro)</td>
<td>6</td>
<td>A 6 credit points of Junior Biology and 6 cp of Junior Chemistry</td>
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<td></td>
<td></td>
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<tr>
<td>PHAR1821 Social Pharmacy</td>
<td>6</td>
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<td></td>
<td></td>
<td></td>
<td>Summer Main</td>
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<tr>
<td><strong>Second Year</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>BCHM2613 Biochemistry for Pharmacy</td>
<td>6</td>
<td>P CHEM1611 and CHEM1612</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>PHAR2609 Medicinal Chemistry 2A</td>
<td>6</td>
<td>P MATH1606 or (MATH1605 and STAT1605); CHEM1611; CHEM1612; either (PHAR1615 or PHAR1624) or (PHAR1613 and PHAR1614); PHAR1616 or PHAR1607</td>
<td></td>
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<tr>
<td>PHAR2615 Microbiology for Pharmacy</td>
<td>6</td>
<td>P BIOL(1001 or 1101 or 1901 or 1911); either (PHAR1615 or PHAR1624) or (PHAR1613 and PHAR1614); PHAR1616 or PHAR1607</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>PSPC2601 Physiology and Pharmacology A (Pharmacy)</td>
<td>6</td>
<td>P CHEM1611, CHEM1612, BIOL(1001 or 1101 or 1901 or 1903)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>PHAR2616 Physical Pharmaceutics and Formulation A</td>
<td>6</td>
<td>P Either MATH1606 or (MATH1605 and STAT1605); CHEM1611; CHEM1612; either (PHAR1615 or PHAR1624) or (PHAR1613 and PHAR1614); either PHAR1616 or PHAR1607</td>
<td></td>
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<tr>
<td>PHAR2617 Pharmacy Practice 2</td>
<td>6</td>
<td>P Either (PHAR1615 or PHAR1624) or (PHAR1613 and PHAR1614); either PHAR1617 or PHAR1612; C PSPC2601 or (PCOL2603 and PHS12604) and PSPC2602 or (PCOL2604 and PHS12605)</td>
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<tr>
<td>PHAR2618 Medicinal Chemistry 2B</td>
<td>6</td>
<td>C PSPC2602 or (PCOL2603 and PCOL2604) and PHAR2609</td>
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<tr>
<td>PSPC2602 Physiology and Pharmacology B (Pharmacy)</td>
<td>6</td>
<td>P CHEM1611, CHEM1612, BIOL(1001 or 1101 or 1901 or 1903) and BIOL(1003 or 1903)</td>
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<tr>
<td><strong>Third Year</strong></td>
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<tr>
<td>PCOL3605 Pharmacology 3 (Pharmacy)</td>
<td>6</td>
<td>P All first year units; BCHM2613 or (BCHM2611 &amp; BCHM2612); PSPC2601 or (PCOL2603 and PHS12604); PSPC2602 or (PCOL2604 and PHS12605).</td>
<td></td>
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<tr>
<td>PHAR3609 Medicinal Chemistry 3A</td>
<td>6</td>
<td>P A pass in all first year units of study; PHAR2609; PHAR2618 or PHAR2610 or PHAR2620</td>
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<tr>
<td>PHAR3613 Pharmacy Practice 3A</td>
<td>6</td>
<td>P All first units of study; PSPC2601 or (PCOL2603 and PHS12604); PSPC2602 or (PCOL2604 and PHS12605)</td>
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<tr>
<td>PHAR3630 Pharmacokinetics and Pharmacogenetics</td>
<td>6</td>
<td>P All first year units of study; either PHAR2618 or (PHAR2613 and PHAR2614 or PHAR2624); either PSPC2601 or (PCOL2603 and PHS12604); either PSPC2602 or (PCOL2604 and PHS12605)</td>
<td></td>
<td></td>
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<tr>
<td>PHAR3662 Dispensing</td>
<td>6</td>
<td>P A pass in all first year units of study; either PHAR2615 or (MICR2605 and (PHAR2607 or PHAR2627)); either PHAR2616 or (PHAR2613 and (PHAR2614 or PHAR2624)); either PHAR2617 or (PHAR2611 and PHAR2612)</td>
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<tr>
<td>PHAR3610 Medicinal Chemistry 3B</td>
<td>6</td>
<td>P All first year units of study; PHAR2609; PHAR2618 or PHAR2610 or PHAR2620</td>
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<tr>
<td>PHAR3615 Pharmacy Practice 3B</td>
<td>6</td>
<td>P All first year units of study; C PHAR3613; PCOL3605 or (PCOL3603 and PCOL3604)</td>
<td></td>
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<tr>
<td>PHAR3634 Physical Pharmaceutics and Formulation B</td>
<td>6</td>
<td>P All first year units of study; either PHAR2615 or (MICR2605 and (PHAR2607 or PHAR2627)); either PHAR2616 or (PHAR2613 and (PHAR2614 or PHAR2624))</td>
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</tbody>
</table>
session:

Fourth Year

PHAR4618 Integrated Pharmacy Practice 12 P A pass in all second year units of study; PHAR3609 or PHAR3620; PHAR3610; either PHAR3611 or PHAR3612; either PHAR3613 or PHAR3623; PHAR3614 or PHAR3615 or PHAR3624 or PHAR3627; either PCOL3605 or (PCOL3603 and PCOL3604) Semester 1

PHAR4619 Drug Development & New Drug Technologies 6 P A pass in all Second Year units of study; either PHAR3630 or (PHAR3611 and PHAR3612); Semester 1 either PHAR3631 or (PHAR3607, PHAR3608, PHAR3616 or PHAR3621 and (PHAR3624 or PHAR3624)); PHAR3609 or PHAR3629; PHAR3610 or PHAR3620; either PCOL3605 or (PCOL3603 and PCOL3604).

PHAR4620 Integrated Dispensing 6 P A pass in all second year units of study; either PHAR3601 or PHAR3602; either PHAR3613 Semester 1 or PHAR3623; either PHAR3614 or PHAR3615 or PHAR3624 or PHAR3627.

PHAR4616 Pharmacotherapeutics in Practice 6 P A pass in all second year units of study. C PHAR4618 Semester 2

PHAR4621 Clinical Practice 12 P A pass in all second year units of study. C PHAR4618 Semester 2

PHAR4622 Pharmacy Management 6 P A pass in all second year units of study. Semester 2

Fourth Year Honours

PHAR4618 Integrated Pharmacy Practice 12 P A pass in all second year units of study; PHAR3609 or PHAR3620; PHAR3610; either PHAR3611 or PHAR3612; either PHAR3613 or PHAR3623; PHAR3614 or PHAR3615 or PHAR3624 or PHAR3627; either PCOL3605 or (PCOL3603 and PCOL3604) Semester 1

PHAR4620 Integrated Dispensing 6 P A pass in all second year units of study; either PHAR3601 or PHAR3602; either PHAR3613 Semester 1 or PHAR3623; either PHAR3614 or PHAR3615 or PHAR3624 or PHAR3627.

PHAR4616 Pharmacotherapeutics in Practice 6 P A pass in all second year units of study. C PHAR4618 Semester 2

plus one of the following units of study from both Semester 1 and Semester 2

PCOL4909 Pharmacology Advanced 4A (Pharmacy) 6 Note: Department permission required for enrolment Enrolment is by invitation only. Semester 1

PHAR4927 Pharmaceutics Advanced 4A 6 Note: Department permission required for enrolment Enrolment is by invitation only. Semester 1

PHAR4928 Pharmaceutical Chemistry Advanced 4A 6 Note: Department permission required for enrolment Enrolment is by invitation only. Semester 1

PHAR4929 Pharmacy Practice Advanced 4A 6 Note: Department permission required for enrolment Enrolment is by invitation only. Semester 1

PCOL4910 Pharmacology Advanced 4B (Pharmacy) 18 P A credit average in first semester marks, including PCOL4909 C PHAR4616 Note: Department permission required for enrolment Semester 2

PHAR4930 Pharmaceutics Advanced 4B 18 P A credit average in first semester marks, including PHAR4927 C PHAR4616 Note: Department permission required for enrolment Semester 2

PHAR4931 Pharmaceutical Chemistry Advanced 4B 18 P A credit average in first semester marks, including PHAR4928 C PHAR4616 Note: Department permission required for enrolment Semester 2

PHAR4932 Pharmacy Practice Advanced 4B 18 P A credit average in first semester marks, including PHAR4929 C PHAR4616 Note: Department permission required for enrolment Semester 2

Units of study

BCHM2613 Biochemistry for Pharmacy

Credit points: 6 Teacher/Coordinator: Assoc Prof A Jones Session: Semester 1 Classes: Five 1 hour lectures per week. Prerequisites: CHEM1611 and CHEM1612 Assessment: One 3 hour exam, assignments

Associated degrees: B Pharm, B Pharm (Rural), UQ Study Abroad Program. This unit of study in Biochemistry and Molecular Biology is designed to provide a firm basis in the chemistry of life. Questions to be addressed include: What are the chemical structures of the components of living matter? How do their interactions lead to the assembly of organised macromolecules, cells, and multicellular tissues and organisms? How does living matter 'extract' energy from its environment? How are chemical reactions controlled inside living cells? How does an organism store and decipher the information it needs to grow and reproduce? Topics include: fundamental energetics of biological processes; structures of proteins; enzymes as biological catalysts; membrane structure and function; the generation of ATP as an energy source; carbohydrate digestion, metabolism and storage; triglyceride and cholesterol digestion; fatty acid breakdown and synthesis; the cholesterol problem; digestion and metabolism of nitrogen-containing compounds; metabolic adaptation during starvation, exercise and diabetes; inherited disorders of metabolism; pharmaceutical intervention in metabolic pathways; DNA structure, function, compaction and replication; logistics and enzymology, repair and recombination; gene transcription; protein synthesis; recombinant DNA technology; basic immunology. Textbooks Pratt CW. & Cornely C. Essential Biochemistry Wiley, 2004.

BIOI1003 Human Biology

Credit points: 5 Session: Semester 1, Summer Main Classes: Two 1 hour lectures per week (3 lectures in weeks 1 and 11). One 3 hour practical class per week, and 6-9 hours HBOnline work every three weeks covering online practical activities, prework and homework. Prohibitions: BIOI1903, EDUH1016 Assumed knowledge: HSC 2-unit Biology. Students who have not taken HSC biology are strongly advised to take the Biology Bridging Course in February. Assessment: One 2.5 hour exam, assignment, poster and quizzes. Note: It is recommended that BIOI (1001 or 1901) be taken concurrently with this unit of study.

Associated degrees: B A, B A (Adv)(Hons), M B BS, B Agr Ec, B B Hlth Sci, B Hlth Sci, M CV S, B Hlth Sci, M H I, B Hlth Sci, M N, B Hlth Sci, M Rehab Cing, B Med Sc, B N, B N (I A H), B N, B A, B N, B Sc, B Pharm, B Pharm (Rural), B Res Ec, B Sc, B Sc (Bioinformatics), B. This Unit of Study has three main components: lectures, practicals and HBOnline activities. The unit of study provides an introduction to
human evolution and ecology, cell biology, physiology and anatomy, through lectures and practical work. It begins with human evolution, human population dynamics and the impact of people on the environment. The unit of study includes human nutrition, distribution of essential requirements to and from cells, control of body functions and defence mechanisms. After discussion of reproduction and development, it concludes with modern studies and research prospects in biotechnology and human genetics. This unit of study, together with BIOL (1001 or 1911 or 1002 or 1902), or MBLG (1001 or 1901), provides entry to Intermediate units of study in Biology, but the contents of BIOL (1002 or 1902) are assumed knowledge for BIOL (2011 or 2012) and PLNT 2003, and students entering these units with BIOL (1003 or 1903) will need to do some preparatory reading.

Textbooks

CHEM1611
Chemistry A (Pharmacy)
Credit points: 6 Teacher/Coordinator: See School of Chemistry for list of staff. Session: Semester 1 Classes: Three 1 hour lectures and one 1 hour tutorial per week; one 3 hour practical per week for 10 weeks. Assumed knowledge: HSC Chemistry and Mathematics Assessment: A theory examination is held at the end of the semester. Students are advised at the beginning of the semester about other factors contributing to assessment in the unit of study.

Note: Department permission required for enrolment. Note: Students must have special permission from the Faculty of Pharmacy to enrol in this Unit of Study.

Associated degrees: B Pharm, B Pharm (Rural), UG Study Abroad Program.

Chemistry provides the basis for understanding molecular structures and processes, essential knowledge for many later year Pharmacy units of study. Lecture topics include some fundamental concepts, atomic theory, states and properties of matter, equations and stoichiometry, introduction to organic chemistry, nomenclature, aliphatic chemistry, aromatic chemistry, heterocyclic compounds, isomerism, stereoisomerism, reaction mechanisms, biomolecules, amino acids and peptides, carbohydrates, general acid-base theory, atomic structure, chemical bonding. Practical work is designed to enhance confidence and develop skills in the handling and manipulation of chemicals and in the observation and processing of experimental results. Special preparatory studies: Students wishing to enrol in CHEM1611 who do not have the assumed chemical knowledge are advised to consult the School of Chemistry for information about a bridging course.

Textbooks
Students should obtain a booklet from the School of Chemistry during the orientation period.

CHEM1612
Chemistry B (Pharmacy)
Credit points: 6 Teacher/Coordinator: See School of Chemistry for list of staff. Session: Semester 2 Classes: Three 1 hour lectures and one 1 hour tutorial per week; one 3 hour practical per week for 10 weeks. Corequisites: CHEM1611 Chemistry A (Pharmacy). Assessment: A theory examination is held at the end of the semester. Students are advised at the beginning of the semester about other factors contributing to assessment in the unit of study.

Note: Department permission required for enrolment. Note: Students must have special permission from the Faculty of Pharmacy to enrol in this Unit of Study.

Associated degrees: B Pharm, B Pharm (Rural), UG Study Abroad Program.

Chemistry provides the basis for understanding molecular structures and processes, essential knowledge for many later year Pharmacy units of study. Lecture topics include redox reactions, electrochemistry, introduction to colloids and surface chemistry, the biological periodic table, radiochemistry, chemical energetics, equilibrium theory, solution theory. Practical work is designed to enhance confidence and develop skills in the handling and manipulation of chemicals and in the observation and processing of experimental results.

Textbooks
Students should obtain a booklet from the School of Chemistry during the orientation period.
The aim of this unit of study is to develop students' awareness and understanding of the pivotal role of experimental pharmacology in the development of drugs, and to develop their ability to conduct experimental investigations in accordance with established standards of scientific methodology and critical analysis. The experimental pharmacological aspects of the development of selected drug classes is studied by means of enquiry-based learning approaches utilising seminars, workshops, library research and written assignments. Experience in a range of pharmacological experimental techniques is gained in supervised laboratory practical classes by completing a series of experimental pharmacological investigations into the actions of selected classes of drugs whose activity is well established; experience in the practical aspects of experiment design, analysis, interpretation and reporting of pharmacological investigations is also gained. Students will also commence a pharmacology research project to be completed in PCOL4910 Pharmacology Advanced 4B (Pharmacy), by undertaking preliminary laboratory work and preparing a literature review and research proposal for both oral and written presentation.

PCOL4910 Pharmacology Advanced 4B (Pharmacy)
Credit points: 18 Teacher/Coordinator: Dr J Henderson Session: Semester 2 Classes: Seminar, project per week. Prerequisites: A credit average in first semester marks, including PCOL4909 Corequisites: PHAR4616 Assessment: Oral presentation, written dissertation, laboratory placement work. Note: Department permission required for enrolment. Associated degrees: B Pharm.

The aim of this unit of study is to develop students' research skills and understanding of how experimental pharmacology influences drug development. Students will conduct experimental investigations in accordance with established standards of scientific methodology and develop their critical analytical thinking and writing. In this unit of study, each student will gain experience in some advanced experimental pharmacological research techniques, through the undertaking of an individual research project under the direct supervision of academic and research staff in the Department, and the preparation of an oral presentation and a written dissertation on the experimental project work. The experimental project work is largely undertaken in Semester 2, during placement in Department research laboratories, following initial preparation in the Semester 1 unit of study, PCOL4909 Pharmacology Advanced 4A (Pharmacy), in which preliminary literature reviews and research proposals were completed.

PHAR1811 Foundations of Pharmacy
Credit points: 6 Teacher/Coordinator: E Sainsbury Session: Semester 1 Classes: 3 x lectures/week, 2 x 2hr workshops/week. Assumed knowledge: HSC Chemistry Assessment: Individual assignments (40%), group reports (40%) and end of semester exam (20%). Associated degrees: B Pharm, UG Study Abroad Program.

This unit will provide an introduction to the practice of pharmacy and assist students to develop the necessary skills to successfully complete their pharmacy degree, such as the use of information technology, critical thinking and presentation skills. This unit also includes mathematical tools required for other units of study in this degree. Patient-pharmacist interactions will be explored along with the mathematical tools required for other units of study. Social pharmacy is designed to provide a broad perspective of patient health and illness, and encourage a view of the patient as a whole person. Topics include self-regulation, pain, chronic illness and support networks. The emphasis will be on the psychosocial processes that underpin patient behaviour. Interprofessional practice provides an introduction to the working relationships that pharmacists have with other healthcare professionals. Oracy, literacy and teamwork skills are also developed in the context of professional pharmacy issues.


PHAR1821 Social Pharmacy
Credit points: 6 Teacher/Coordinator: Dr L Smith Session: Semester 2 Classes: 3 x 1hr lectures/week, 1 x 2hr workshop/week. Corequisites: PHAR1811 Assessment: Exam (40%), presentation (25%) and reports (35%). Practical field work: Externship and teamwork project. Associated degrees: B Pharm, UG Study Abroad Program.

This unit of study consists of 2 major streams, social pharmacy and interprofessional practice. This unit of study will also include mathematical tools required for other units of study. Social pharmacy is designed to provide a broad perspective of patient health and illness, and encourage a view of the patient as a whole person. Topics include self-regulation, pain, chronic illness and support networks. The emphasis will be on the psychosocial processes that underpin patient behaviour. Interprofessional practice provides an introduction to the working relationships that pharmacists have with other healthcare professionals. Oracy, literacy and teamwork skills are also developed in the context of professional pharmacy issues.


PHAR1822 Physical Pharmaceutics
Credit points: 6 Teacher/Coordinator: Dr P Young Session: Semester 2 Classes: 3 x lectures/week, classes will be arranged as needed Corequisites: PHAR1812 Assessment: Exam 70%, minor exam 15%, prac/labs 15%. Practical field work: 5 x laboratory sessions. Associated degrees: B Pharm, UG Study Abroad Program.

This unit of study aims to facilitate an understanding of the physicochemical principles, design, formulation, manufacture and evaluation of pharmaceutical dose forms. The unit starts with an introduction to different dose forms and the importance of route of administration. The formulation of liquid dose forms including parenteral, nasal, ophthalmic and aural products is discussed. Related topics such as diffusion and dissolution of drugs, drug solubilisation, surface and interfacial tension, surface active materials, micelle formation, pharmaceutical complexes and drug-packaging interactions will be covered. Fundamentals of the stability of pharmaceuticals are also presented in this unit. This unit of study also includes mathematical tools required for other units of study.


PHAR2609 Medicinal Chemistry 2A
Credit points: 6 Teacher/Coordinator: Dr W. Bret Church Session: Semester 1 Classes: 3 x lectures/week and tutorials scheduled as required Corequisites: MATH1606 or (MATH1605 and STAT1605); CHEM1611; CHEM1612 Assessment: Theory exam 50%, group assignment 15%, quizzes 20%, poster 15%, and tutorial assessments. Associated degrees: B Pharm, UG Study Abroad Program.

Introductory Pharmaceutical Science provides an introduction to principles which will be expanded and applied in later years. Topics covered include drugs from plants, pharmaceutical calculations, dosage forms, intermolecular forces in liquids and solids, dissolution and solubility, drugs as acids and bases, partitioning. This unit also includes mathematical tools required for other units of study. Small group work in workshop sessions will complement and support the learning of material introduced in lectures.

Textbooks: Introductory Pharmaceutical Science Resource Book 2007
processes. Students gain experience in a variety of experimental techniques related to drug design and analysis. In addition, students will develop laboratory skills and generic skills including critical thinking and accessing information.

Textbooks

PHAR2615 Microbiology for Pharmacy
Credit points: 6. Teacher/Coordinator: Dr R Rohanizadeh. Session: Semester 1. Classes: 2 x lectures/week, workshop classes will be arranged as needed.
Prerequisites: BIOL (1001 or 1101 or 1901 or 1911); either PHAR1615 or PHAR1624 (or PHAR1613 and PHAR1614); either PHAR1616 or PHAR1607 Assessment: Exam & quiz (70%), practicals including workshop (30%).
Practical field work: Laboratory work.
Associated degrees: B Pharm, B Pharm (Rural), UG Study Abroad Program.
This unit of study provides information on the biology of microorganisms with particular reference to the importance of microorganisms in pharmacy and the pharmaceutical sciences and the application of basic microbiological principles to the production of clean and sterile pharmaceutical products in both community and hospital pharmacy and in industrial manufacture. Topics include the comparison of the structure, function and importance of the major groups of microorganisms; pathogenicity, epidemiology and growth; principles and methods of sterilisation, aspects of disinfection and disinfectants, preservation and spoilage of pharmaceutical products and an introduction to concepts of good manufacturing practice. The practical component focuses on basic safe and aseptic microbiological technique applicable to pharmacy and the pharmaceutical sciences and is illustrative of the lecture series.
Textbooks
Denyer SP, Hodges NA & Gorman SP. Hugo & Russell's Pharmaceutical Textbooks 7th edition, Blackwell, 2004

PHAR2616 Physical Pharmaceutics and Formulation A
Credit points: 6. Teacher/Coordinator: Dr P Young. Session: Semester 2. Classes: 3 x lectures/week, classes will be arranged as needed. Prerequisites: Either MATH1606 or (MATH1605 and STAT1605); CHEM1611; CHEM1612; either PHAR1615 or PHAR1624 or (PHAR1613 and PHAR1614); either PHAR1616 or PHAR1607 Corequisites: PHAR2615 Assessment: Exam 70%, minor exam 15%, practicals 15%. Practical field work: 6 x laboratory sessions.
Associated degrees: B Pharm, B Pharm (Rural), UG Study Abroad Program.
This unit of study aims to facilitate an understanding of the physicochemical principles, design, formulation, manufacture and evaluation of pharmaceutical dose forms. The unit starts with an introduction to different dose forms and the importance of route of administration. The formulation of liquid dose forms including parenteral, nasal, ophthalmic and aural products is discussed. Related topics such as diffusion and dissolution of drugs, drug solubilisation, surface and interfacial tension, surface active materials, micelle formation, pharmaceutical complexes and drug-packaging interactions will be covered. Fundamentals of the stability of pharmaceuticals are also presented in this unit.
Textbooks

PHAR2617 Pharmacy Practice 2
Credit points: 6. Teacher/Coordinator: Dr S Bosnic-Anticevich. Session: Semester 2. Classes: 3 x lectures/week, tutorials and classes will be scheduled as required. Prerequisites: Either PHAR1615 or PHAR1624 or (PHAR1613 and PHAR1614); either PHAR1617 or PHAR1612 Corequisites: PSPC2601 or (PCOL2603 and PHSI2604) and PSPC2602 or (PCOL2604 and PHSI2605)
Assessment: Written exam (40%), oral assessment (35%), and continuous assessment through tutorial participation and contribution (25%).
Associated degrees: B Pharm, B Pharm (Rural), UG Study Abroad Program.
This course focusses on giving students the knowledge and skills to successfully manage the treatment of patients in the clinical pharmacy setting. It is the first course within the undergraduate B.Pharm curriculum which explores the pathology of diseases and the options for management. It also focuses on methods of delivering patient care that will facilitate improved health outcomes through effective communication. This course is fundamental to clinical pharmacy in all areas of practice. The core areas of respiratory, cardiovascular, endocrinology, infection and primary care are covered in this course.
Textbooks

PHAR2618 Medicinal Chemistry 2B
Credit points: 6. Teacher/Coordinator: Dr C C Duke. Session: Semester 2. Classes: 3 x lectures/week, tutorials and workshops. Corequisites: PSPC2602 or (PCOL2603 and PCOL2604) and PHAR2609 Assessment: 2 hr exam (55%), workshops, practicals and quizzes (45%). Practical field work: 9 hrs practical work.
Associated degrees: B Pharm, B Pharm (Rural), UG Study Abroad Program.
Drug design: QSAR and molecular modelling; drug metabolism, bioactivation and inactivation; advanced analytical methods for the identification of drugs, their metabolites and degradation products. Introductory toxicology. Workshops consist of the drug design/QSAR computer-based problem-solving workshop, drug action workshop and drug metabolism/toxicology problem based learning workshop. In the drug action workshop, learning is largely given over to the group, which prepares and presents a case study making use of library databases.
Textbooks

PHAR3602 Dispensing
Credit points: 6. Teacher/Coordinator: Dr R Fois. Session: Semester 2. Classes: Periodic lectures throughout semester, weekly workshops. Prerequisites: A pass in all first year units of study; either PHAR2615 or (MICR2605 and (PHAR2607 or PHAR2627)); either PHAR2616 or (PHAR2613 and PHAR2614) or (PHAR2617 or PHAR2611 and PHAR2612) Corequisites: PHAR3631 Assessment: Periodic practical examinations throughout semester, one theory examination, continuous assessment, in-semester assignments, group work and individual work. Satisfactory performance in all areas of this unit of study is required. Practical field work: Weekly practical classes.
Associated degrees: B Pharm, B Pharm (Rural), UG Study Abroad Program.
Introduction to dispensing practice, the importance of accuracy in dispensing, the prescription, approaches to dispensing prescriptions, labelling of dispensed medicines, containers, documentation of dispensing procedures, dispensing of particular formulations, effect of changing formulation variables on the physical properties and efficacy of pharmaceutical products. A series of practical classes are complemented by workshops. Lectures will provide formative feedback. Students will learn the skills and techniques required to prepare a variety of pharmaceutical products. They will also learn to develop processes in quality assurance and quality control, developing critical skills in minimising errors, maximising the detection of errors and preparing products of consistently high quality.
Textbooks
Australian Pharmaceutical Formulary (APF) - most recent edition.

PHAR3609 Medicinal Chemistry 3A
Credit points: 6. Teacher/Coordinator: Dr A Ammit. Session: Semester 1. Classes: Lectures each week, tutorial classes will be arranged as needed. Prerequisites: A pass in all first year units of study; PHAR2609; PHAR2618
Therapeutics: This section is a continuation of the therapeutics section of PHAR3613 Pharmacy Practice 3A. Topics covered will include neurology, mental health, obstetrics and gynaecology, dermatology, oncology and palliative care. Each of these therapeutic areas will be covered in terms of epidemiology, pathophysiology, signs and symptoms, and the drug and non-drug management. The unit of study will also explore the role of pharmacists in conducting medication regimen reviews and interprofessional communication. Externships: The externship will integrate lecture material with practice. Students will complete patient interviews and report back to tutorials. Problem-solving skills will be enhanced. Tutorial: The tutorials will employ case-based learning techniques. A number of computerised drug information databases will be used. Role-plays will be used to develop students’ communication skills in pharmacist/patient and pharmacist/doctor interactions. Familiarisation with computer software written specifically for pharmacists will also take place.

Associated degrees: B Pharm, UG Study Abroad Program.

Prerequisites: All first year units of study. Corequisites: Either PSPC2601 or (PCOL2603 and PHSI2604); either PSPC2602 or (PCOL2604 and PHSI2605) Assessment: Either PCOL3605 or (PCOL3603 and PCOL3604) Exam: (50%), group work (20%) and quizzes (30%).

Associated degrees: B Pharm, B Pharm (Rural), UG Study Abroad Program.

Pharmacokinetics and Pharmacogenetics

Credit points: 6 Teacher/Coordinator: Dr M Bebawy Session: Semester 1 Classes: 3 x lectures/week, tutorial classes will be arranged as needed. Corequisites: Either PHAR2611 and PHAR2612; either PSPC2601 or (PCOL2603 and PHSI2604); either PSPC2602 or (PCOL2604 and PHSI2605); or PHAR3613; or PHAR3614 or PHAR2624); either PSPC2601 or (PCOL2603 and PHSI2604); either PSPC2602 or (PCOL2604 and PHSI2605) Assessment: Either PCOL3605 or (PCOL3603 and PCOL3604) Exam: (50%), group work (20%) and quizzes (30%).

Associated degrees: B Pharm, B Pharm (Rural), UG Study Abroad Program.

This unit of study deals with fundamental concepts in pharmacokinetics, followed by the application of these principles to clinical situations. The influence of pharmacogenetics on drug therapy is also presented. Lecture topics on basic pharmacokinetic principles include: Introduction to pharmacokinetics; Design of pharmacokinetic studies; Mono-exponential pharmacokinetics; Drug Transporters in pharmacokinetics; Moment analysis; Drug distribution; IV Infusion kinetics; Multi-exponential pharmacokinetics; Genetics following extravascular doses; Bioavailability/Bioequivalence; Drug clearance mechanisms; Renal clearance; Hepatic clearance; Metabolite kinetics; Nonlinear pharmacokinetics; Multiple dose kinetics; Pharmacodynamics and drug transporters in pharmacokinetics.

Additional basic pharmacokinetic theory and its application to clinical situations. The influence of pharmacogenetics on drug therapy is also presented. Lecture topics on basic pharmacokinetic principles include: Introduction to pharmacokinetics; Design of pharmacokinetic studies; Mono-exponential pharmacokinetics; Drug Transporters in pharmacokinetics; Moment analysis; Drug distribution; IV Infusion kinetics; Multi-exponential pharmacokinetics; Genetics following extravascular doses; Bioavailability/Bioequivalence; Drug clearance mechanisms; Renal clearance; Hepatic clearance; Metabolite kinetics; Nonlinear pharmacokinetics; Multiple dose kinetics; Pharmacodynamics and drug transporters in pharmacokinetics.

Associated degrees: B Pharm, B Pharm (Rural), UG Study Abroad Program.


2. Undergraduate degree requirements

or PHAR2610 or PHAR2620 Assessment: Mid-term exam (35%), final exam (35%), practical report (30%). Practical field work: Laboratory work.

Associated degrees: B Pharm, B Pharm (Rural), UG Study Abroad Program.

This unit of study applies the principles of medicinal chemistry as presented in Medicinal Chemistry 2A and 2B to classes of drugs categorised by their common physiological targets or chemical properties. For each drug class, the chemistry and biochemistry relating to their development, metabolism, toxicology, mode of action and pharmacological application will be examined. Drug classes examined will include agents acting on the peripheral nervous system including cholinergics, adrenergics and antihistamines; agents acting on the central nervous system including opioids, dopaminergics and serotonergics; agents acting on the cardiovascular system such as antihyperlipidemics, ACE inhibitors and drugs acting on the immune system. Laboratory work will consist of the preparation of an analytical drug profile for an assigned compound in a format suitable for submission to the TGA. This activity will be undertaken as a group over a period of six weeks.

Textbooks

Recommended text: WO Foye, TL Lemke & DA Williams Principles of Medicinal Chemistry (Williams & Wilkins, 5th Ed, 2002).

PHAR3610 Medicinal Chemistry 3B

Credit points: 6 Teacher/Coordinator: Assoc Prof M Collins Session: Semester 2 Classes: 4 x lectures/week, 4hr weekly workshop. Corequisites: All first year units of study: PHAR2609; PHAR2618 or PHAR2610 or PHAR2620. Assessment: Mid-term exam (35%), final exam (35%) and workshops (30%).

Associated degrees: B Pharm, B Pharm (Rural), UG Study Abroad Program.

This unit of study continues on the principles of medicinal chemistry established and developed in PHAR3609 Medicinal Chemistry 3A. Lecture topics include: steroids, chemotherapy, herbal medicines and radiation effects. Laboratory work will include forensic analysis of a drug involved in a suspicious death and either a QSAR practical on estrogens or a hepatotoxicity practical.

Textbooks

WO Foye, TL Lemke & DA Williams Principles of Medicinal Chemistry (Williams & Wilkins, 5th Ed, 2002).

PHAR3613 Pharmacy Practice 3A

Credit points: 6 Teacher/Coordinator: Dr T F Chen Session: Semester 1 Classes: 12 x lectures/week, classes will be arranged as needed. Corequisites: All first year units of study: PSPC2601 or (PCOL2603 and PHSI2604); PSPC2602 or (PCOL2604 and PHSI2605); PHAR2617 or (PHAR2611 and PHAR2612). Corequisites: PCOL3605 or (PCOL3603 and PCOL3604). Assessment: Written and oral exam (35%), tutorials (20%), externship (10%). Multiple choice question exam (35%). Practical field work: 11 x 3hr fieldwork sessions.

Associated degrees: B Pharm, B Pharm (Rural), UG Study Abroad Program.

Therapeutics: This strand is a continuation of the therapeutics section of PHAR3613 Pharmacy Practice 3A. Topics covered will include neurology, mental health, obstetrics and gynaecology, dermatology, oncology and palliative care. Each of these therapeutic areas will be covered in terms of epidemiology, pathophysiology, signs and symptoms, and the drug and non-drug management. This unit of study will also explore the role of pharmacists in conducting medication regimen reviews and interprofessional communication. Externships: The externship will integrate lecture material with practice. Students will complete patient interviews and report back to tutorials. Problem-solving skills will be enhanced. Tutorial: The tutorials will employ case-based learning techniques. A number of computerised drug information databases will be used. Role-plays will be used to develop students’ communication skills in pharmacist/patient and pharmacist/doctor interactions. Familiarisation with computer software written specifically for pharmacists will also take place.

Textbooks

Current editions of: AMH, Therapeutic Guidelines, Clinical Pharmacy and Therapeutics

PHAR3615 Pharmacy Practice 3B

Credit points: 6 Teacher/Coordinator: Dr R Moles Session: Semester 2 Classes: 12 x lectures per wk, 10 x 3hr tutorials, other classes may be arranged as needed. Corequisites: All first year units of study. Corequisites: PHAR3613; PCOL3605 or (PCOL3603 and PCOL3604) Assessment: Multiple choice question exam 35%, oral exam 35%, tutorials 20% and externship 10%. Both exams must be passed to satisfy the requirements of the course. Practical field work: 11 x 3hr field work sessions.

Associated degrees: B Pharm, UG Study Abroad Program.

Therapeutics: This section is a continuation of the therapeutics section of PHAR3613 Pharmacy Practice 3A. Topics covered will include neurology, mental health, obstetrics and gynaecology, dermatology, oncology and palliative care. Each of these therapeutic areas will be covered in terms of epidemiology, pathophysiology, signs and symptoms, and the drug and non-drug management. The unit of study will also explore the role of pharmacists in conducting medication regimen reviews and interprofessional communication. Externships: The externship will integrate lecture material with practice. Students will complete patient interviews and report back to tutorials. Problem-solving skills will be enhanced. Tutorial: The tutorials will employ case-based learning techniques. A number of computerised drug information databases will be used. Role-plays will be used to develop students’ communication skills in pharmacist/patient and pharmacist/doctor interactions. Familiarisation with computer software written specifically for pharmacists will also take place.

Textbooks
Basic Clinical Pharmacokinetics (4th ed) - Michelle E. Lippincott, Williams & Wilkins.

PHAR3631 Physical Pharmaceutics and Formulation B
Credit points: 6 Teacher/Coordinator: Dr P Young Session: Semester 2 Classes: 3 x lectures/week, classes will be arranged as needed. Prerequisites: All first year units of study; either PHAR2615 or (MICR2605 and (PHAR2607 or PHAR2627)); either PHAR2616 or (PHAR2613 and (PHAR2614 or PHAR2624)). Corequisites: PHAR3630 Assessment: Exam 60%, minor exam 15%, practicals 15%, assignments 10%.

Associated degrees: B Pharm, B Pharm (Rural), UG Study Abroad Program.

This unit of study builds on the material presented in Physical Pharmaceutics and Formulation A. The topics covered in this unit include: solid dose forms and particle science, rheology; dispersion dosage forms including suspensions, colloidal dispersions, and emulsions; topical dose forms and semisolids; inhalation pharmaceutical aerosols; protein and peptide drugs and formulations; rectal products; novel drug delivery technologies. Aspects pertaining to the stability of dose forms are also presented in this unit. A workshop designed to integrate and apply the information from Physical Pharmaceutics and Formulation A and B concludes this unit.

Textbooks

PHAR4616 Pharmacotherapeutics in Practice
Credit points: 6 Teacher/Coordinator: Dr S Megalli Session: Semester 2 Classes: 1 x 2hr lecture/week, 3hrs tutorials/week, 1 x 3hr workshop/fortnight. Classes will be arranged as needed. Prerequisites: A pass in all second year units of study. Corequisites: PHAR4618 Assessment: Tutorial participation (20%), student problem based learning case/problem (20%), written exam (40%) and workshops (20%). Satisfactory performance in all areas of this unit of study is required.

Associated degrees: B Pharm, UG Study Abroad Program.

This unit of study should consolidate previous study units from Year 1 to Semester 1 of Year 4 of the undergraduate curriculum, through the presentation and solving of real-life clinical and ethical problems. It continues a focus on knowledge consolidation, therapeutics, application of knowledge, and medication management review and disease state management within a self-directed learning environment (problem based learning). Lectures will be followed up with tutorials which will be practice-based in order to illustrate specific practice situations. In addition, two ethics workshops and four disease state management workshops will develop student skills in ethical problem solving and delivery of elements of disease state management services for diabetes, asthma, drugs of dependence and heart failure.

PHAR4618 Integrated Pharmacy Practice
Credit points: 12 Teacher/Coordinator: Dr B Saini & Ms B Chaar Session: Semester 1 Classes: 2 x 2hr tutorials/week, other classes will be arranged as needed. Prerequisites: A pass in all second year units of study. Corequisites: PHAR3630 and PHAR3632; either PHAR3610 or PHAR3612; either PHAR3613 or PHAR3623; PHAR3614 or PHAR3615 or PHAR3624 or PHAR3625; PHAR3616 or PHAR3626 or PHAR3627; either PCOL3605 or PCOL3603 and PCOL3604 Assessment: Oral presentations (10%), tutorial participation (15%), final exam (40%), reflective diaries (10%), online cases (10%), group report (5%), preceptor assessments (10%). Satisfactory performance in all areas of this unit of study is required. Practical field work: 10 x 3hr clinical placement fieldwork.

Associated degrees: B Pharm, B Pharm (Rural), UG Study Abroad Program.

This unit of study focuses on knowledge consolidation, therapeutics, application of knowledge, medication management review and disease state management within a self-directed learning environment (problem based learning) and supplemented by clinical placements. Lectures will be followed up with tutorials which will be practice-based in order to illustrate specific practice situations. In addition, PBL tutorials will provide the opportunity for further development of students’ skills in information gathering, assessment and communication skills. The therapeutic topics to be covered in this unit include cardiovascular, infectious diseases and primary care. The unit of study will expand the role of the pharmacist in monitoring therapeutic outcomes, and in participating in therapeutic decision-making. The principles and practice of clinical chemistry as it is applied to the diagnosis, screening and monitoring of physiological processes in health and disease will be covered, as will the measurement of specific analyses. The clinical interpretation of the results of clinical chemistry investigations in diagnosis, screening and monitoring will also be discussed.

Textbooks
Complete set of Therapeutic Guidelines (recent versions)
The Merk Manual of diagnosis and therapy, Merk Research Laboratories. whitehouse Station, NJ, 17th ed or later.
PHAR4619 Drug Development & New Drug Technologies
Credit points: 6 Teacher/Coordinator: Dr N Petrovic and Dr W Bret Church Session: Semester 1 Classes: 1 x 2hr lecture/week, 2hr workshop/week. Classes will be arranged as needed. Prerequisites: A pass in all Second Year units of study; either PHAR3630 or (PHAR3611 and PHAR3612); either PHAR3631 or (PHAR3607, PHAR3608, PHAR2616 or PHAR2613 and (PHAR2614 or PHAR2624)); either PHAR3609 or PHAR3629, PHAR3610 or PHAR3620; either PCOL3605 or (PCOL3603 and PCOL3604). Assessment: Final exam (55%), assignment (25%), workshops (20%). All assessments must be passed to satisfy requirements of the course.

Associated degrees: B Pharm, B Pharm (Rural), UG Study Abroad Program.

This unit of study consists of a series of workshops, lectures and assignments that focus on the areas of drug development and new drug technologies. The workshops on drug development are designed to assist students in integrating and applying the information from the various sub-disciplines within pharmaceutical science, including physical pharmacy, pre-formulation science, drug formulations, biopharmaceuticals, pharmacokinetics, pharmacodynamics and pharmacogenomics to the drug discovery/development process. Topics to be covered include selection of new chemical entities based on physico-chemical, pharmacokinetic and metabolic properties, clinical trials in drug development, evaluation of product information, dosage adjustments in patients, formulation of new drug products, pharmacokinetic/pharmacodynamic aspects of biological products and pharmacogenetics in drug discovery. New Drug Technologies aims to expose students to developing biotechnologies such as gene therapy, growth factors and cytokines, immunotherapy and pro-drugs while covering aspects of neurological disorders, cardiovascular diseases, cancer and AIDS. The course material will be covered by a series of introductory lectures, workshops and specialised lectures/tutorials will be presented by invited scientific professionals, who will give an insight on developments of new and up-and-coming biotechnology and the impact on pharmaceutical care.

Textbooks
Williams, DA. and Lemke, TL: Foyer’s Principles of Medicinal Chemistry (5th Ed), Lippincott Williams and Wilkins, 2002.
Rowland M & Tozer TN: Clinical Pharmacokinetics: concepts and applications (3rd Ed), Williams & Wilkins, 1995.
Integrated Dispensing

**Credit points:** 6  
**Teacher/Coordinator:** E Sainsbury and Dr P Aslani  
**Session:** Semester 1  
**Classes:** 2hr lecture and 2hr workshop/week  
**Prerequisites:** A pass in all second year units of study; either PHAR3601 or PHAR3602; either PHAR3613 or PHAR3622; either PHAR3614 or PHAR3615 or PHAR3624 or PHAR3627  
**Assessment:** Demonstrate adequate performance in practical exams (30%), continuous assessment (30%), written exam (30%) and portfolio presentation (10%).  
**Practical field work:** 2hr practical/week.  

**Associated degrees:** B Pharm, B Pharm (Rural), UG Study Abroad Program.

Integrated Dispensing links together the skills and knowledge that students have developed in Dispensing and Pharmacy Practice. The emphasis is on clinical practice and develops the theme that dispensing is not a single event but draws on skills and knowledge from a variety of areas of pharmacy practice, including communication with the patient and prescriber. This is achieved using a simulated practice environment. Students learn to integrate the training they have received in dose form preparation with patient counselling skills, forensic and administrative requirements (including the use of computer-based dispensing programs), as well as the professional aspects of pharmacy to allow them to become competent dispensers of medicines.

**Textbooks**

**PHAR4620**

**Clinical Practice**

**Credit points:** 12  
**Teacher/Coordinator:** Mrs J Basheti  
**Session:** Semester 2  
**Classes:** Tutorials will be arranged as needed.  
**Prerequisites:** A pass in all second year units of study.  
**Corequisites:** PHAR4618  
**Assessment:** Preceptor assessment (25%), reflective diaries (10%), med review case 2 (5%), oral presentation (10%), submission of med review cases 1, 3 and 4 (15%) and written exam (40%). Satisfactory performance in all areas of this unit of study is required.  
**Practical field work:** Clinical placement fieldwork.  

**Associated degrees:** B Pharm, UG Study Abroad Program.

This unit requires students to follow the progress of patients by extracting and organising information from patient medication histories and interviews. Literature information relevant to the case will be sought in an attempt to review and propose therapeutic options for management. Aspects of communication, verbal presentation and an ability to discuss the case critically will be developed. Each case study will cover the drugs under review, the disease state, past medical and pharmaceutical history, social and demographic parameters. The students’ decision-making ability will be developed. The appropriateness of therapeutic plans will be reviewed.

**Textbooks**
- Therapeutic Guidelines (Compendium set).  
- Victorian Drug Usage Advisory Committee.  
- North Melbourne, VIC.
- Jeff Hughes (ed).  
- Pharmaceutical Society of Australia.
- Tatro D (ed).  
- Wolters Kluwer Heath.

**PHAR4622**

**Pharmacy Management**

**Credit points:** 6  
**Teacher/Coordinator:** Dr B Saini  
**Session:** Semester 2  
**Classes:** 1x2hr lecture/wk, 1x2hr tutorial/wk. Classes will be arranged as required.  
**Prerequisites:** A pass in all second year units of study.  
**Assessment:** Exam (40%), business plan (35%), career plan (10%) and environmental analysis (15%). Both the business plan and exam must be passed to satisfy the requirements of the course.  

**Associated degrees:** B Pharm, UG Study Abroad Program.

This course will introduce retail and management issues that are crucial for understanding pharmacy business operations. It offers an overview of finance and accounting, human resources, change management and marketing topics. Students will gain an awareness of strategic management issues through the development of a business plan for a pharmacy.

**PHAR4927**

**Pharmaceutics Advanced 4A**

**Credit points:** 6  
**Teacher/Coordinator:** Dr N Petrovic  
**Session:** Semester 1  
**Classes:** Seminar, tut/workshop, project/wk.  
**Assessment:** Oral presentations (30%), seminars and postgraduate presentations (10%), literature review (60%), workshop attendance/contributions, project/report.  
**Note:** Department permission required for enrolment. Note: Enrolment is by invitation only.

**Associated degrees:** B Pharm, UG Study Abroad Program.

This unit of study is designed to extend the Pharmacy undergraduate’s knowledge and skills in research methodology, problem solving and written and oral scientific communication in specialist areas of Pharmaceutics. It provides an important basis in advanced coursework and laboratory research for those who wish to become candidates for the PhD, MSc and MPhil degrees. (Advanced students will also retain essentially all of the professionally based training of the Pass degree and complete in the same time.)

**PHAR4928**

**Pharmaceutical Chemistry Advanced 4A**

**Credit points:** 6  
**Teacher/Coordinator:** Dr C C Duke  
**Session:** Semester 1  
**Classes:** Seminar, tut/workshop, project/wk.  
**Assessment:** Assignments (5%), oral presentations (45%), written reports (35%), seminar attendance (15%).  
**Note:** Department permission required for enrolment. Note: Enrolment is by invitation only.

**Associated degrees:** B Pharm.

Pharmaceutical Chemistry Advanced 4A is designed to extend the Pharmacy undergraduate’s knowledge and skills in research practice and problem solving, and written and oral scientific communication. It provides an important basis for those who wish to become candidates for the PhD, MSc and MPhil degrees. In addition, the unit of study provides extra training in specialised areas and will be particularly useful for those seeking employment in industrial, government and hospital laboratories. (Advanced students will also retain essentially all of the professionally based training of the pass degree and complete in the same time.)

**PHAR4929**

**Pharmacy Practice Advanced 4A**

**Credit points:** 6  
**Teacher/Coordinator:** Assoc Prof I Krass  
**Session:** Semester 1  
**Classes:** Seminar, tut/workshop/wk.  
**Assessment:** Seminar attendance (10%), research diary (30%), literature essay (10%), literature review (30%), assignment (10%), presentation (10%).  
**Note:** Department permission required for enrolment. Note: Enrolment is by invitation only.

**Associated degrees:** B Pharm.

Weekly discussion between students, their supervisors and other pharmacy practice personnel will take place in order to evaluate and formulate possible methodologies for research projects. Students will provide short oral presentations for open discussion with other staff and postgraduate students. Research projects in areas of Pharmacy Practice such as Pharmacoeconomics, Pharmacoepidemiology, Professional Practice, Geriatric Patients, Asthma Management and Clinical Practice will be offered. (Advanced students will also retain
essentially all of the professionally based training of the Pass degree and complete in the same time.)

Textbooks

PHAR4930
Pharmaceutics Advanced 4B
Credit points: 18 Teacher/Coordinator: Dr N Petrovic Session: Semester 2 Classes: Seminar/workshop, project/wk. Prerequisites: A credit average in first semester marks, including PHAR4927 Corequisites: PHAR4916 Assessment: Oral presentation 30%, project/report 40%, seminar attendance/reports 10%, research capability/commitment 20%. Note: Department permission required for enrolment.

Associated degrees: B Pharm.
This unit of study is designed to extend the Pharmacy undergraduate's knowledge and skills in research practice and problem solving, and written and oral scientific communication acquired in the Semester 1 unit of study PHAR4927 Pharmaceutics Advanced 4A. It provides an important basis for those who may wish to branch into specialised areas and will be particularly useful for those seeking employment in industry, government or hospital laboratories, research institutions and also for those considering continuation to postgraduate studies. The workshop and seminar components of the unit of study will assist in the development of advanced research skills and will complement the research project. The individual research project prepared in Pharmaceutics Advanced 4A will be pursued under the direct supervision of a member of the academic staff. A final research presentation and report describing research results and conclusions is to be presented at the end of the year.

PHAR4931
Pharmaceutical Chemistry Advanced 4B
Credit points: 18 Teacher/Coordinator: Dr C C Duke Session: Semester 2 Classes: Seminar/project work/wk. Prerequisites: A credit average in first semester marks, including PHAR4928 Corequisites: PHAR4916 Assessment: Oral presentation 20%, seminar attendance/reports 5%, project/report 75%. Note: Department permission required for enrolment.

Associated degrees: B Pharm.
Pharmaceutical Chemistry Advanced 4B is designed to extend the Pharmacy undergraduate's knowledge and skills in research practice and problem solving, and written and oral scientific communication acquired in the first semester unit of study PHAR4928 Pharmaceutical Chemistry Advanced 4A. The unit of study provides an important basis for those who may wish to branch into specialised areas and will be particularly useful for those seeking employment in industry, government, or hospital laboratories, research institutions and also for those considering continuation to postgraduate studies. The workshop and seminar components of the course will assist in the development of advanced research skills and will complement the research project. The individual research project prepared in Pharmaceutical Chemistry Advanced 4B will be pursued under the direct supervision of a member of the academic staff. A final research presentation and report describing research results and conclusions is to be presented at the end of the year.

PHAR4932
Pharmacy Practice Advanced 4B
Credit points: 18 Teacher/Coordinator: Assoc Prof I Krass Session: Semester 2 Classes: Seminar/tut/workshop, project/wk. Prerequisites: A credit average in first semester marks, including PHAR4929 Corequisites: PHAR4916 Assessment: Oral presentation 10%, project/report 45%, seminar attendance 10%, research presentation 25%, supervisor assessment 10%. Note: Department permission required for enrolment.

Associated degrees: B Pharm.
This unit of study is designed to extend the Pharmacy undergraduate's knowledge and skills in research practice and problem solving, and written and oral scientific communication acquired in PHAR4929 Pharmacy Practice Advanced 4A. Pharmacy Practice Advanced 4B provides an important basis for those who may wish to branch into specialised areas and will be particularly useful for those seeking employment in industry, government, hospital laboratories, research institutions and also for those considering continuation to postgraduate studies. The workshop/tutorial/seminar component of the course will assist in the development of advanced research skills and will complement the research project. A final research presentation and report describing research results and conclusions is to be presented at the end of the semester.

PSPC2601
Physiology and Pharmacology A (Pharmacy)
Credit points: 6 Teacher/Coordinator: Dr Bronwyn McAllan, Dr H Lloyd Session: Semester 1 Classes: 4 lec/wk and 13 hrs prac/workshop/tut Corequisites: CHEM1611, CHEM1612, BIOL(1001 or 1101 or 1901) and BIOL(1003 or 1903) Assessment: One 2 hr exam (70 per cent), one 1 hr mid-semester test (20 per cent), continuous assessment (10 per cent).

Associated degrees: B Pharm, B Pharm (Rural), UG Study Abroad Program.
This unit of study is taught in conjunction by the Disciplines of Physiology and Pharmacology, and provides: (i) a broad basic knowledge of human functions and includes studies of nerve and muscle physiology, sensory perception, gastro-intestinal function, fluid and electrolyte balance, movement and consciousness, and (ii) a basic understanding of drug actions which are related to physiological and pathological functions, including drug-receptor interactions, the pharmacodynamics of peripheral neurotransmission, and the pharmacodynamics of autacoids, as well as an understanding of the therapeutic applications of drugs which alter respiratory and gastrointestinal function.

Textbooks

PSPC2602
Physiology and Pharmacology B (Pharmacy)
Credit points: 6 Teacher/Coordinator: Dr H Lloyd, Dr Bronwyn McAllan Session: Semester 2 Classes: 4 lec/wk and 13 hrs prac/workshop/tut Corequisites: CHEM1611, CHEM1612, BIOL(1001 or 1101 or 1901) and BIOL(1003 or 1903) Assessment: One 2 hr exam (70 per cent), one 1 hr mid-semester test (20 per cent), continuous assessment (10 per cent).

Associated degrees: B Pharm, B Pharm (Rural), UG Study Abroad Program.
This unit of study is taught in conjunction by the Disciplines of Physiology and Pharmacology, and builds upon the understanding gained in PSPC2601. It covers: (i) human endocrine hormones, reproduction, blood, heart and circulation, fluid regulation and electrolyte balance, movement and consciousness, and (ii) the pharmacodynamics of the endocrine, cardiovascular and renal systems, and an understanding of the therapeutic applications of these drugs based on their underlying pharmacology.

Textbooks
Textbooks, study aids and reference books As for PSPC2601 Physiology and Pharmacology A (Pharmacy).
3. Undergraduate degree regulations and policies

Resolutions of the Faculty

Bachelor of Pharmacy

1. Admission

1.1 Admissions to the BPharm course is based on:

1.1.1 Results of a Special Tertiary Admission Test (STAT)

1.1.2 NSW HSC Universities Admissions Index (UAI) or equivalent, or a tertiary studies record.

1.2 Under the Faculty of Pharmacy Rural Students Entry Scheme a number of places have been set aside for entry to the Bachelor of Pharmacy program for prospective rural students who meet the selection criteria approved by the Academic Board, as set out below. Details of the application process are available from the Faculty.

1.3 Criteria for Admission to the BPharm under the Faculty of Pharmacy Rural Students Entry Scheme.

1.3.1 Current NSW HSC or interstate equivalent applicants may be offered a place under the Faculty of Pharmacy Rural Students Entry Scheme if they meet all the criteria set out below:

1.3.1.1 The applicant’s UAI is not more that five points below the UAC main round cut off mark for the year of entry.

1.3.1.2 Applicants must have completed at least the last four years of secondary education at a rural school (the definition of "rural" is detailed below).

1.3.1.3 Applicants must have had a permanent home address in a rural area for a significant period (at least four years) at any time prior to their application (the definition of "rural" is detailed below).

1.3.1.4 Applicants must be able to demonstrate a commitment to a career in a rural health setting. (This may include an exceptional record of involvement and achievement in community affairs at school or local community level in a rural environment).

1.3.1.5 Applicants are not eligible for a place under this Scheme if they have completed one full-time year (or part-time equivalent) of tertiary study. (Tertiary study refers to Diploma, Advanced Diploma, Bachelor’s Degree or higher qualification recognised by the University of Sydney).

1.3.1.6 Applicants are not eligible for a place under this Scheme if they accept an offer under any other Access and Equity Program offered by the University.

1.3.2 Applicants must satisfy the Special Tertiary Admissions test criterion outlined above.

Definition of "rural"

The basis for the definition of "rural" will be the area encompassing the rural NSW Area Health Service regions, as announced by the NSW Department of Health on 16 March 1966, or the equivalent definition of rural applicable to other states. Basically, all of New South Wales is considered rural with the exception of Sydney, Central Coast, Newcastle, Wollongong, the Blue Mountains and their surrounding areas. In other states, similar definitions will apply.

2. Units of study

2.1 The units of study for the degree are as set out in the Faculty of Pharmacy Handbook.

3. Requirements for the Bachelor of Pharmacy

3.1 To qualify for the award of Pass degree students must:

3.1.1 gain a minimum of 192 credit points by successfully completing all first year, second year, third year and fourth year units of study;

3.1.2 satisfy the requirements of all other relevant By-Laws, Rules and Resolutions of the University.

4. Requirements for the Honours degree

4.1 The degree of Bachelor of Pharmacy shall be awarded in two grades, namely, Pass and Honours.

4.2 Except with the permission of the Faculty, candidates of more than four years standing in the degree shall not be awarded the degree with honours.

4.3 Except with the permission of the Faculty, Honours will not normally be awarded to any student with a grade of F or AF in any unit of study.

4.4 Honours students can progress to Second Semester Advanced only if they obtain a credit average in their first semester marks. Students who fail this requirement will go back to the Pass stream, Fourth Year Second Semester.

4.5 In order to be considered for the award of the University Medal, a student must obtain a WAM of 85 or greater over the entire degree, and must achieve minimum final honours mark of 90 or greater in two Advanced units of study – Research Methods and Research Project in the same stream. The decision to award a University Medal shall be made by the Faculty Honours Board of Examiners.

4.6 To be eligible for the grade of Honours from 2001, a student must successfully complete two Advanced units of study in the same stream.

4.7 A weighted average mark (WAM) will be calculated for each candidate as an overall measure of performance in the degree.

4.8 The degree will be awarded with the following grades:

4.8.1 First Class Honours: HWAM of 75 or greater with a minimum final honours mark of 85;

4.8.2 Second Class Honours, division I: HWAM of 70–74 with a minimum final honours mark of 80; Second Class Honours, division II: HWAM of 65–69 with a minimum final honours mark of 75.

4.9 HWAM means the Honours weighted average mark calculated by the Faculty from results for all 2000, 3000 and 4000 level units attempted for the degree, weighted 2. 3. 4 for the respective levels. The Advanced (Honours) units of study are given double weighting in this calculation.

Calculation of HWAM

\[
\text{HWAM} = \frac{\sum M \times C \times L}{\sum C \times L}
\]

where \(C\) = credit value of unit; \(L\) = level or weighting of unit; \(M\) = mark gained in unit.

5. Award of Bachelor of Pharmacy with Major

5.1 Except with the permission of the Faculty, candidates of more than four years standing in the degree shall not be permitted to undertake a unit of study resulting in award of the degree with a major.

5.2 In order to receive the award of Pass Degree with Major students must complete the required unit(s) of study.

5.3 Entry to the prescribed units of study leading to the award of a Major will be on basis of academic merit.

6. Enrolment in more/less than minimum load

6.1 In the first year of attendance candidates, unless granted credit in accordance with section 13, shall enrol in all the First Year units of study listed in Table 1.

6.2 Except with the permission of the Faculty, and subject to the exigencies of the timetable, candidates in subsequent years of attendance shall enrol in the maximum number of prescribed units of study for which they are qualified, provided that they may not take units of study totalling in excess of 54 credit points.

6.3 Students who have attempted or gained credit for all units of study in First and Second Years of the degree may be eligible to apply for prerequisite waiver which would allow enrolment in the full complement of units of study for the following academic year, together with the failed unit, provided they have no prior grade fail.
7. **Restrictions on enrolment**

7.1 Except with the permission of the Faculty, candidates may not take a Second Year unit of study until they have:

7.1.1 gained credit for at least 24 credit points in First Year units of study; and

7.1.2 completed the First Year units of study, if any, prescribed by the Faculty as qualifying units of study or prerequisites for the Second Year of Study, as set out in Table 1.

7.2 Except with the permission of the Faculty, candidates may not take a Third Year unit of study until they have:

7.2.1 gained credit for at least 18 credit points derived from Second Year units of study; and

7.2.2 completed all the First Year units of study, and all the Second Year units of study, if any, prescribed as qualifying units of study or prerequisites for the Third Year unit of study, as set out in Table 1.

7.3 Except with the permission of the Faculty, candidates may not take a Fourth Year unit of study until they have:

7.3.1 gained credit for at least 18 credit points derived from Third Year units of study; and

7.3.2 completed all the Second Year units of study, and all the Third Year units of study, if any, prescribed by the Faculty as qualifying units of study or prerequisites for the Fourth Year unit of study, as set out in Table 1.

7.4 Candidates may not take a higher unit of study in any subject area without having previously completed the lower unit of study, if any, in the same subject.

7.5 The enrolment of candidates in units of study shall be limited by the exigencies of the timetable.

8. **Discontinuation of enrolment**

8.1 A candidate must re-enrol each calendar year unless the Faculty has approved suspension of candidature. Candidature lapses if a candidate has not obtained approval for suspension and does not re-enrol. Candidates whose candidature has lapsed must be selected for admission again before they can re-enrol.

8.2 Except with the prior permission of the Faculty, a candidate shall not be granted a suspension of candidature in order to enrol in another course of tertiary study. Candidature shall lapse if a candidate enrolls in another course of tertiary study without prior permission of the Faculty.

9. **Re-enrolment after an absence**

9.1 A student must enrol in the semester following a period of approved absence.

9.2 Failure to re-enrol immediately after an approved suspension of candidature will result in candidature lapsing.

10. **Satisfactory progress**

10.1 Refer to the *University of Sydney (Coursework) Rule 2000 (as amended)* and Academic Board policies.

11. **Time limit**

11.1 Refer to the University of Sydney (Coursework) Rule 2000 (as amended).

12. **Assessment policy**

12.1 Candidates may be tested by written and oral class examinations, oral examinations, assignments, exercises, essays, or practical work or any combination of these; and

12.1.1 the results of such tests may be taken into account by the Faculty Board of Examiners in determining the final results for a unit of study.

12.2 In all units of study, work of a higher standard than that required for an ordinary pass may be recognised by the award of high distinction, distinction or credit.

12.3 Candidates who have been prevented by duly certified illness or misadventure from sitting for the whole or part of a unit of study assessment may be tested at such times and in such a way as the head of department concerned shall determine.

12.4 Candidates who do not pass in a unit of study shall, unless exempted by the Faculty:

12.4.1 again attend lectures and other classes; and

12.4.2 complete the prescribed written and other work in all such units of study in which they are permitted to re-enrol.

12.5 Candidates who present themselves for re-examination in any unit of study shall not be eligible for any prize or scholarship awarded in connection with such examination.

12.6 With the consent of the Faculty, additional assessment will only be permitted where:

12.6.1 a specific case of special consideration has been approved by the Faculty; or

12.6.2 a student in his or her final year fails a single compulsory assessment resulting in a grade of fail in only that unit of study preventing him or her from completing the degree that year.

13. **Credit transfer policy**

13.1 Refer to the *University of Sydney (Coursework) Rule 2000 (as amended)* and Academic Board policies.
4. Postgraduate degree requirements

This chapter sets out requirements for both research and coursework postgraduate programs offered in the Faculty of Pharmacy. Following a brief description of the research degrees and notes on the presentation of theses, details of the requirements and units of study for the coursework programs are listed.

The information in this chapter is in summary form and is subordinate to the provisions of the relevant degree resolutions, found in the next chapter or in the University of Sydney Calendar. The Calendar is available for purchase from the Student Centre, for viewing in the Library or on the web at the following address: www.usyd.edu.au/calendar/.

Another valuable resource for intending and current postgraduate students is the Postgraduate Research and Coursework Handbook published by SUPRA (Sydney University Postgraduate Representative Association).

Research degrees

Research degrees offered by the Faculty are:

- Doctor of Philosophy
- Master of Philosophy

Doctor of Philosophy (PhD)

Course code: PB000

The degree of Doctor of Philosophy is a research degree awarded for a thesis considered to be a substantially original contribution to the subject concerned. Some coursework may be required (mainly in the form of seminars) but in no case is it a major component. The Resolutions of the Senate and Academic Board relating to the degree of Doctor of Philosophy are printed in the University of Sydney Calendar 1999 Vol 1, Statutes and Regulations.

Applicants should normally hold a masters degree or a bachelor’s degree with first class honours from the University of Sydney, or an equivalent qualification from another university or institution.

The degree may be taken on either a full-time or part-time basis. In the case of full-time candidates:

- the minimum period of candidature can, with the permission of the Faculty, be two years for candidates holding an MSc degree or equivalent, or three years in the case of candidates holding a bachelor’s degree with first class or second class honours;
- the maximum period of candidature is normally four years.

Part-time candidature may be approved for applicants who can demonstrate that they are engaged in an occupation or other activity, which leaves them substantially free to pursue their candidature for the degree. For part-time candidates:

- the minimum period of candidature will normally be determined on the recommendation of the Faculty but in any case will not be less than three years;
- the maximum period of candidature is normally eight years.

Doctor of Philosophy degree resolutions

Please see the University of Sydney Calendar at www.usyd.edu.au/calendar/.

Master of Philosophy (MPhil)

Course code: PC082

The degree is awarded on the successful examination of a thesis based on original research. The Faculty offers a wide choice of research areas (see below). There is a coursework component to this degree, consisting of a Research Methods unit of study, but by no means is it a major component.

The minimum admission requirements are:

- a bachelor’s degree with first or second-class honours from the University of Sydney in pharmacy or science (e.g. pharmacology, chemistry or biochemistry), or
- a bachelor’s degree from the University of Sydney or another approved institution without first or second class honours after the applicant has passed a qualifying examination at a standard equivalent to the bachelor’s degree with first or second class honours.

The Faculty of Pharmacy may exempt an applicant from the qualifying examination if the applicant has obtained at least a credit in the highest course available in the subject or subjects relevant to the Master of Philosophy (Pharmacy).

The degree may be taken on either a full-time or part-time basis. The minimum period of candidature will be one year with a maximum of two years for students enrolled on a full-time basis. For students enrolled on a part-time basis, the minimum period of candidature is two years, and four years maximum.

Master of Philosophy degree resolutions

See Chapter 5.

Current areas of research in the Faculty of Pharmacy

Pharmaceutical chemistry

Research in Pharmacy covers a broad spectrum of pharmaceutical and clinical sciences ranging from the design, synthesis, testing and mechanism of action of drugs, through studies on methods of drug delivery and on the fate of drugs in humans and animals, to research on the clinical and sociological aspects of pharmacy.

The following research topics reflect the types of research currently being conducted within the Faculty of Pharmacy.

Drug Discovery – Research in Drug Discovery focuses on the conceptualisation, design and testing of drugs (including drug quality). Utilising molecular modelling and computational chemistry, the structural group has been active in its work aimed at targets of inflammation and schizophrenia, allowing it to develop compounds with promising therapeutic profiles. The neuroscience team is involved in the design and synthesis of conformationally restricted analogues of gamma aminobutyric acid (GABA), the major inhibitory neurotransmitter in the mammalian central nervous system.

GABA receptors are key targets for drugs which have important therapeutic actions including epilepsy, depression, anxiety and memory-related deficits implicated in Alzheimer’s disease and schizophrenia.

Biological Mechanisms of Drug Action – Research on biological mechanisms of drug actions explores how and why drugs work and the identification of potential future drug targets. Our current research programs in this area include investigation of novel therapeutic targets.
for future pharmacological intervention in inflammatory diseases such as asthma and cancer, and structure-activity studies of receptors implicated in neurological conditions using mutagenesis methods to help us identify key amino acid residues that are important in the binding and function of receptors in neuroscience.

**Herbal Medicines** – In 2007 we celebrate the tenth anniversary of the founding of the Herbal Medicines Research and Education Centre, the first of its kind in Australia, established within the pharmaceutical chemistry program. The centre focuses on scholarship and research into the quality, safety and efficacy of herbal and complementary medicines and their interactions with conventional drugs, as well as promoting co-operation and linkages between the pharmaceutical, herbal and complementary medicine industries and user groups. The use of plants and other naturally occurring materials as sources of safe and effective therapeutic agents is a major objective of research carried out in the Herbal Medicines Research and Education Centre. The Cancer Immunology Group, established in 2005 within the Herbal Medicines Research and Education Centre, is an evidence-based herbal medicines anti-cancer program.

**Pharmaceutics**

Pharmaceutics academic and research staff and postgraduate students are currently engaged in many exciting research projects that employ a range of experimental approaches, from cell culture and molecular biology to analytical methods, clinical studies and dose formulation.

Two major areas of research are undertaken by our staff are Pharmacogenomics and Drug Development and Advanced Drug Delivery.

**Pharmacogenomics and Drug Development** – The Pharmacogenomics and Drug Development Group has interests in how human gene variation influences drug action and safety. The principal focus is on human drug metabolising enzymes (cytochromes P450 in particular) and transporters that determine the concentrations of drugs in tissues and their duration of action. Projects cover clinical aspects of human drug safety as well as laboratory-based projects of human gene regulation in cells. At present the emphasis is on anti-cancer agents and certain antipsychotic drugs.

**Advanced Drug Delivery** – The Advanced Drug Delivery Group is focussed on understanding physical properties of materials used in pharmaceutical sciences and relating those to in-vitro and subsequent in-vivo performance. More specifically, the group's main focus is in respiratory drug delivery science. In addition to the basic aerosol characterisation techniques, the group utilises a series of advanced techniques to allow direct insight into how surface morphology and chemistry influence in-vitro performance parameters in respiratory physical science.

Recent PhD projects include:

- A study of agglomerate dispersion in dry powder inhalers
- Electrostatics of aerosols for inhalation
- Dispersion of pharmaceutical aerosols

**Pharmacy practice**

Our academic and research members of staff are actively engaged in a wide variety of exciting research projects which span from research at the cellular level aimed at gaining better understanding of mechanisms of asthma to the investigation of social and clinical roles of pharmacy practice.

**Health Services** – A particular strength of the pharmacy practice group is health services research focusing on the role of pharmacy in the health care setting. Implementing change to pharmacy practice in recent decades has required a solid base of research and evidence to support the clinical and economic value of extended roles for pharmacists. Active research projects in this group include professional delivery of S2/S3 products, CMI and medicines information via other sources, such as the internet, clinical interventions reporting. Home Medicines Review (HMR) for the elderly, adherence support in specific diseases, disease state management services in asthma, anticoagulation, diabetes, hypercholesterolemia, heart failure, chronic pain and mental health. In addition to new services, novel forms of service delivery are also being investigated, including pharmacists in private hospitals, ambulatory clinics, in GP surgeries, liaison pharmacists providing outreach services from the hospital and the use of teleconferencing to facilitate the provision of pharmacist cognitive services in rural and remote areas.

**Quality Use of Medicines** – Assuring medication safety and the Quality Use of Medicines in the community and institutional setting is also the key focus of research activity. Examples of research in the institutional setting include drug use reviews, clinical therapeutic drug monitoring, the role of drug committees and the impact of clinical services in the hospital setting. In the community setting, research focuses on the impact of Residential Medication Management Review (RMMR) and HMR on medicines use and health outcomes. Medicines information is another focus of research activity with investigations into consumer needs, preferences, experiences and impacts on medicine taking behaviour.

**Health Promotion** – Pharmacy-based screening and health promotion for diabetes, cardiovascular disease osteoporosis and sleeping disorders are other types of pharmacy services undergoing development and evaluation.

**Asthma** – Cellular research in asthma is centred on examining the roles, mechanisms and interactions of inflammatory mediators, mast and smooth muscle cells in the pathophysiology of asthma. This may lead to the identification of new therapeutic targets to improve prevention and management of the condition.

**Aged Care** – Understanding the causes and consequences of age-related changes in response to medicines is a major focus in the research area of Pharmacy Aged Care within the Pharmacy Practice discipline. This involves investigations into the use of medicines in older people, clinical pharmacology studies to characterise changes in drug disposition and how these translate into practice.

**Ethics** – Research currently underway is designed to explore the moral reasoning and understanding of professional ethics of pharmacists in the current Australian social context and in relation to the existing Pharmaceutical Society of Australia Code of Ethics. This research has shown that there is considerable scope for improving moral reasoning and understanding of the established ethical standards within the profession. Importantly, the research has also demonstrated that educational programs can raise awareness of ethical standards and improve moral reasoning skills.

**Recent research projects**

- Medication use in Aboriginal communities
- Patient satisfaction with diabetes services in community pharmacy
- Pharmacists’ attitudes to non-prescription provision of levonorgestrel
- Airway smooth muscle IP10 production – role of MAPKs
- An evaluation of the Young Pharmacist’s mentoring program
- Asthma, exercise and quality of life
- The non-prescription use of the emergency contraceptive pill
- Self-regulation in people with asthma
- Utilisation of complementary medicines in hospitalised elderly patients
- A pilot study in the Pharmacy Self-Care Program
- Supply of orlistat as a ‘pharmacist only’ medicine
- Pharmacist prescribing: views of Australian hospital pharmacists
- Cognitive pharmaceutical services – cost implications
- Chronic pain sufferers using rural areas
Presentation of theses
The following information is presented for the guidance of candidates. It should be regarded as a summary only. Candidates should also consult the University’s Calendar and the Postgraduate Research and Coursework Handbook 2007/08 for the most current and detailed advice. See: www.usyd.edu.au/fstudent/postgrad/study/pub/handbooks.shtml

Formal requirements for Doctor of Philosophy
- Four copies of the candidate’s thesis should be submitted for examination for the degree of Doctor of Philosophy. These may be bound in either a temporary or a permanent form.
- Theses submitted in temporary binding should be strong enough to withstand ordinary handling and postage.
- The degree shall not be awarded until the candidate has submitted a permanently bound copy of the thesis (containing any corrections or amendments that may be required), printed on acid-free or permanent paper.
- The thesis shall be accompanied by a certificate from the supervisor stating whether in the supervisor’s opinion the form of presentation of the thesis is satisfactory.
- Thesis in permanent form shall normally be on International Standard A4 size paper sewn and bound in boards covered with book cloth or buckram or other binding fabric. The title of the thesis, the candidate’s initials and surname, the title of the degree, the year of submission and the name of the University of Sydney should appear in lettering on the front cover or on the title page. The lettering on the spine, reading from top to bottom, should conform as far as possible to the above except that the name of the University of Sydney may be omitted and the thesis title abbreviated. Supporting material should be bound in the back of the thesis as an appendix or in a separate sheet of covers.

Formal requirements for Master of Philosophy
- Similar formal requirements to those above exist for the presentation of masters theses.
- Three copies must be submitted.

Coursework degrees
Requirements for the following coursework degrees offered by the Faculty, and their associated units of study, are listed in this chapter in the following order:
- Master of Pharmacy
- Master of Herbal Medicines
- Master of Herbal Medicines (Honours)
- Graduate Diploma in Herbal Medicines
- Graduate Certificate in Herbal Medicines

Results
For all coursework programs, the following mark ranges apply:

<table>
<thead>
<tr>
<th>Grades</th>
<th>Mark Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD</td>
<td>85–100</td>
</tr>
<tr>
<td>D</td>
<td>75–84</td>
</tr>
<tr>
<td>CR</td>
<td>65–74</td>
</tr>
<tr>
<td>P</td>
<td>50–64</td>
</tr>
<tr>
<td>R</td>
<td>Satisfied requirements</td>
</tr>
<tr>
<td>F</td>
<td>Below 50</td>
</tr>
<tr>
<td>AF</td>
<td>Absent Fail</td>
</tr>
</tbody>
</table>

Coursework degree resolutions
See Chapter 5.

Master of Pharmacy (MPharm)
Course code: PC034
This postgraduate coursework program in Pharmacy is a graduate entry level or professional masters degree offered to applicants who have completed an undergraduate degree. With a strong practical focus, the course is designed to provide an alternative mode of entry into the pharmacy profession. The course has been designed to satisfy the academic requirements for registration with the Pharmacy Board of New South Wales.

Admission requirements
Successful applicants must meet each of the following admission requirements:
- A prior bachelor’s degree
- Satisfactory score in the GAMSAT or MCAT for international students
- A minimum GPA of as determined by the faculty
- Meeting a minimum of five out of the seven prerequisite units of study — biology, chemistry, mathematics, statistics, biochemistry, physiology and pharmacology.
- A satisfactory score for the Pharmacy Case Study Scenario.

Summary of requirements
The degree of Master of Pharmacy is a full-time two year course, including clinical placements undertaken during the summer and winter inter-semester periods. Progression towards the degree is by the accumulation of credit points. The requirements for the degree are set out in the Senate Resolutions which can be found in the University of Sydney Calendar and which should be read by all intending candidates. To satisfy the requirement for the degree candidates must gain a minimum of 96 credit points by completing the units of study prescribed for the degree. Table 2 outlines the units of study which comprise the program of study for the Master of Pharmacy.

Registration requirements for pharmacists
Successful completion of the Master of Pharmacy can lead to registration as a Pharmacist. In addition to completing the degree qualification, the graduate is required to serve not less than 2000 hours as an assistant to a registered pharmacist in a pharmacy within the Commonwealth of Australia. This period must be served after the Master of Pharmacy course has been successfully completed.

Further details concerning the requirements for registration can be obtained from the Pharmacy Board of New South Wales
3rd Floor, 28 Foveaux Street
Surry Hills NSW 2010
tel +61 2 9281 7736
fax +61 2 9281 2924
Postal Address:
Locked Bag 2
Haymarket NSW 2000

Master of Pharmacy degree resolutions
See Chapter 5.

Postgraduate coursework programs in Herbal Medicines

Master of Herbal Medicines
(MHerbMed) – Course code PC032
(MHerbMed Honours) – Course code PC035

Graduate Diploma in Herbal Medicines
(GradDipHerbMed) – Course code PF002

Graduate Certificate in Herbal Medicines
(GradCertHerbMed) – Course code PG000

Objectives
The Master of Herbal Medicines, Graduate Diploma in Herbal Medicines, and Graduate Certificate in Herbal Medicines are designed to provide health care professionals and science graduates with an advanced education encompassing scientific and pharmaceutical aspects of herbal medicines, and their clinical applications. Candidates will at the same time acquire systematic knowledge of traditional medicine.

The programs are suitable for postgraduate studies by pharmacists, practitioners and dispensers of complementary medicine and Chinese
4. Postgraduate degree requirements

Program outcomes
Graduates with a pharmacy or medical background will gain appropriate knowledge and skills to enable them to provide information and in-depth advice on herbal products in their practice. Graduates with a traditional Chinese medicine or medical acupuncture background will extend their scientific and pharmaceutical knowledge underpinning the clinical application of Chinese herbal medicines, attain knowledge on the interaction between Western and Chinese medicine, and extend skills necessary to prescribe or dispense scheduled herbs safely in the regulatory context. Graduates from other scientific disciplines will gain and/or expand their knowledge and further develop skills necessary for work in manufacturing, teaching and the research areas of herbal medicines.

Admission requirements
The basic entry requirement is a bachelor's degree in pharmacy, medicine, nursing, Chinese medicine, complementary medicine, science, veterinary science, agriculture or other appropriate disciplines from an approved university. Under special circumstances other applicants with demonstrable relevant occupational experience and holding relevant diplomas may, on successfully meeting such requirements, be eligible for admission subject to approval by the Dean. The Faculty's usual English language admission requirements will also apply.

Program requirements
The Herbal Medicines programs are available for both part-time and full-time study. However, international students are only permitted to enrol full-time.

The course consists of lectures, tutorials, laboratory practical, excursions, and assignment projects. There are approximately eight hours (two/three evenings) of lectures/tutorials per week during semester for part-time study and approximately 16 hours (five evenings) of lectures/tutorials per week during semester for full-time study.

Extra hours are required to attend excursions, carry out literature searches, complete assignments and undertake other self-directed study. Honours students should be prepared to conduct their research at the university during the daytime in addition to attending classes in the evening.

The candidates are required to complete 48 credit points to qualify for the masters pass degree, with an additional 12 credit points to qualify for the masters honours degree; 36 credit points to qualify for the graduate diploma; 24 credit points to qualify for the graduate certificate.

For part-time study, the Master of Herbal Medicines is to be taken over two to four years. The Graduate Diploma in Herbal Medicines is to be taken over one to two years. The Graduate Certificate in Herbal Medicines is to be taken over one to one and a half years.

For full-time study, the Master of Herbal Medicines is to be taken over one to two years; the honours component for the Master of Herbal Medicines adds an extra semester to the initial masters program; the Graduate Diploma in Herbal Medicines is to be taken over one to one and a half years; the Graduate Certificate in Herbal Medicines is to be taken over half a year to one year.

Summary of requirements for full-time study

<table>
<thead>
<tr>
<th>Program</th>
<th>Credit points required</th>
<th>Minimum time for completion</th>
<th>Maximum time for completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Herbal Medicines</td>
<td>48</td>
<td>1 year</td>
<td>2 years</td>
</tr>
<tr>
<td>Master of Herbal Medicines (Honours)*</td>
<td>60</td>
<td>1.5 years</td>
<td>2.5 years</td>
</tr>
<tr>
<td>Graduate Diploma in Herbal Medicines</td>
<td>36</td>
<td>1 year</td>
<td>1.5 years</td>
</tr>
<tr>
<td>Graduate Certificate in Herbal Medicines</td>
<td>24</td>
<td>0.5 year</td>
<td>1 year</td>
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</table>

Summary of requirements for part-time study

<table>
<thead>
<tr>
<th>Program</th>
<th>Credit points required</th>
<th>Minimum time for completion</th>
<th>Maximum time for completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Herbal Medicines</td>
<td>48</td>
<td>2 years</td>
<td>4 years</td>
</tr>
<tr>
<td>Master of Herbal Medicines (Honours)*</td>
<td>60</td>
<td>2.5 years</td>
<td>4 years</td>
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<tr>
<td>Graduate Diploma in Herbal Medicines</td>
<td>36</td>
<td>1.5 years</td>
<td>3 years</td>
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<tr>
<td>Graduate Certificate in Herbal Medicines</td>
<td>24</td>
<td>1 year</td>
<td>2 years</td>
</tr>
</tbody>
</table>

* A dissertation is required for the Master of Herbal Medicine (Honours).

Flexibility between courses
This is a fully embedded program. The graduate certificate and graduate diploma are linked to the masters degree. Candidates enrolled in the master's degree or graduate diploma may choose to terminate their enrolment earlier to qualify for graduate diploma or graduate certificate. Candidates are eligible to apply to transfer their enrolment from graduate certificate to graduate diploma, or from graduate diploma to masters. Local candidates are eligible to apply for conversion between part-time and full-time study.

Course structure
The Master of Herbal Medicines program has four core units of study and seven electives, with the core units of study offered Monday to Thursday, and the elective units of study offered Monday to Friday. Full-time candidates are required to attend classes potentially for five days (evenings) per week, depending on electives chosen, but with a minimum of four days (evenings) per week. The table below shows the graduate programs in herbal medicines, including the suggested units of study for those candidates wishing to specialise in different fields: clinical, industry and dispensary fields. Flexibility is allowed for electives and students also have the option of choosing one unit of study from other disciplines within the University, or from another university, subject to approval by the course coordinator.

To be eligible to apply for the dissertation required for the Master of Herbal Medicines (Honours) students need an average weighted mark of at least 65 in 24 credit points of core unit coursework in Semester 1. A weighted average mark of 70 must be maintained in Semester 2. Approved students are then required to undertake a small supervised research project in herbal medicines and complete a formal dissertation component. The offer of a dissertation is subject to availability of staff and laboratory space.
4. Postgraduate degree requirements

At least 50 per cent of total credit points earned should be from core units. Flexibility is allowed for electives, however there are recommended electives for each stream. An elective unit of study may not be offered if a certain enrolment number is not reached.

Credit

Prior to admission to candidature, a candidate who has completed relevant graduate coursework in the University of Sydney or another recognised university may be eligible for credit of up to one third of the overall degree towards the requirements for the Master of Herbal Medicines, the Graduate Diploma in Herbal Medicines, or the Graduate Certificate in Herbal Medicines degrees respectively. The graduate study completed (within the previous five years) must be considered by the Faculty to be equivalent to programs prescribed for the degree.

Herbal Medicines degree resolutions

See Chapter 5.

Units of study: tables

Table 2: Master of Pharmacy degree

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
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<tr>
<td><strong>Year 1</strong></td>
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<td>PHAR5513</td>
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<tr>
<td>Pharmaceutical Chemistry 1A</td>
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<td>PCOL5001</td>
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<tr>
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<td>PHAR5515</td>
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<td>PHAR5516</td>
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<tr>
<td>Pharmaceutical Chemistry 1B</td>
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<td>PHAR5517</td>
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<td>Semester 2</td>
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<tr>
<td>Pharmaceutics 1B</td>
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<tr>
<td>Pharmacy Practice A</td>
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<td>PHAR5505</td>
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<tr>
<td>Dispensing Practice</td>
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<td>PHAR5508</td>
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<tr>
<td>Pharmacy Practice B</td>
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<tr>
<td>PHAR5509</td>
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</tr>
<tr>
<td>Integrated Pharmaceutics</td>
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<td>PHAR5510</td>
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<td>Pharmacy Practice C</td>
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<tr>
<td>PHAR5506</td>
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<tr>
<td>Pharmaceutical Chemistry 2B</td>
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<td>Clinical Residency 2</td>
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</tbody>
</table>

23
4. Postgraduate degree requirements

Table 3: Postgraduate coursework programs in Herbal Medicine

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>HERB5550: Integrative Herbal Therapeutics</td>
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<td>Semester 1</td>
</tr>
<tr>
<td>HERB5551: Botany and Herbal Chemistry</td>
<td>6</td>
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<td>Semester 1</td>
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<tr>
<td>HERB5552: Herbal Pharmacology</td>
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<td>Semester 1</td>
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<tr>
<td>HERB5553: Herbal Regulation and Dispensing</td>
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<td>Semester 1</td>
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<tr>
<td>HERB5554: Chinese Medicine and Materia Medica</td>
<td>6</td>
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<td>Semester 1</td>
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<tr>
<td>HERB5555: Herbal Pharmaceutics and Analysis</td>
<td>6</td>
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<td>Semester 2</td>
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<tr>
<td>HERB5556: Herbal Toxicology</td>
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<td>Semester 2</td>
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<tr>
<td>HERB5557: Pharmacognosy</td>
<td>6</td>
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<tr>
<td>HERB5558: Clinical Studies and Monographs</td>
<td>6</td>
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<td>Semester 2</td>
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<tr>
<td>HERB5559: Chinese Herbal Formulas and Processing</td>
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<td>Semester 2</td>
</tr>
<tr>
<td>HERB5560: Dissertation</td>
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<td>Semester 1</td>
</tr>
</tbody>
</table>

* For Master of Herbal Medicines (Honours) only

**Units of study: listings**

**HERB5550: Integrative Herbal Therapeutics**

Credit points: 6  Session: Semester 1  Classes: lectures 3 hrs/wk for 11 wks, practicals, tutorials, 3 hrs/wk for 2 wks  Assessment: examinations (50%), assignments (25%), practical work (25%)


This unit of study is designed for the healthcare practitioners who would like to extend their understanding in clinical applications of traditional herbal medicines. 'Integration' is the essence of this unit of study, linking and combining the knowledge and practice of Western and traditional medicine in the treatment of common diseases. The unit covers some common chronic diseases, such as hypertension, hyperlipidemia, diabetes, asthma, rheumatism, prostate hypertrophy, menopausal syndrome, depression etc. The disease states based on the symptomology of Western medicines are extended towards the syndrome and holistic model of traditional medicines (Chinese, Western and Ayurvedic).

Textbooks

**HERB5551: Botany and Herbal Chemistry**

Credit points: 6  Session: Semester 1  Classes: lectures 3 hrs/wk for 12 wks, practicals, tutorials, 3 hrs/wk for 4 wks  Assessment: examinations (50%), assignments (25%), practical work (25%)


Medicinal botany is the study of the structure, morphology and taxonomy of medicinal plants. The objectives of the subject are to classify and identify medicinal plants, to ensure the safety and quality of herbal medicines by eliminating the confusion of herbal species, and to develop new resources of medicinal plants. Herbal chemistry comprises the study of extraction and separation, chemical properties, structure determination and biosynthesis pathways of chemical components in herbal medicines. The objective is to use both modern science and technology and traditional theory to study the relationship between chemical components and properties of herbal medicines.

Textbooks

**HERB5552: Herbal Pharmacology**

Credit points: 6  Session: Semester 1  Classes: lectures 3 hrs/wk for 12 wks, practicals, tutorials, 3 hrs/wk for 3 wks  Assessment: examinations (50%), assignments (25%), practical work (25%)


Herbal pharmacology is the study of the function and mechanism of action of herbal medicines with modern scientific methods. The objectives are: to understand pharmacological principles of herbal medicines which will help health-care practitioners to understand the prescribing of herbal medicines effectively; to understand the underlying nature of traditional medical theory; to provide data on pharmacodynamics and toxicology for new herbal products development. This subject will emphasise the pharmacological study of traditional herbal medicines. The pharmacology of each class of
drugs is discussed in relation to traditional theories and classification of herbs.

Textbooks

HERB5533
Herbal Regulation and Dispensing
Credit points: 6 Session: Semester 1 Classes: lectures 3 hrs/wk for 9 wks, practicals, tutorials, 3 hrs/wk for 2 wks Assessment: examinations (50%), assignments (25%), practical work (25%)

This unit of study covers the government legislation concerning products and practice of complementary medicines. The unit of study will help industry professionals to understand TGA Legislation to ensure that medicinal preparations are of acceptable quality, safety and efficacy, and for health-care practitioners to dispense herbal medicines safely. Topics in this unit of study will include: The Australian Therapeutic Goods Administration; accreditation of complementary medicine practitioners; Registration and Listing of traditional or complementary medicines; GMP of herbal manufacturing; dispensing and quality management of herbal medicines, and quality use of medicines.

Textbooks

HERB5554
Chinese Medicine and Materia Medica
Credit points: 6 Session: Semester 1 Classes: lectures 3 hrs/wk for 13 wks, practicals, tutorials, 3 hrs/wk for 3 wks Assessment: lectures 3 hrs/wk for 13 wks, practicals, 3 hrs/wk for 3 wks

Basic Chinese medicine includes basic theory and its application in the four diagnosis methods, pattern differentiation methods, treatment principles and methods. The unit of study provides systematic knowledge on Chinese medicine and lays a solid foundation for further study on the materia medica and formulary of Chinese medicine. Chinese materia medica is the study of basic theory of Chinese materia medica and the origin, collection, property, function, and clinical application of Chinese herbs in Chinese medicine context. It bridges Chinese medicine theory, formulas and clinical practice. It also provides a foundation for modern herbal monographs.

Textbooks

HERB5555
Herbal Pharmacology and Analysis
Credit points: 6 Session: Semester 2 Classes: lectures 3 hrs/wk for 11 wks, practicals, tutorials, 3 hrs/wk for 3 wks Assessment: examinations (50%), assignments (25%), practical work (25%)

Pharmaceutical technology of herbal medicines includes the study of formulation theory and manufacturing techniques, quality control and application of herbal products using methods of modern science and technology, combined with traditional medicine theory. The primary objective of pharmaceutical technology of herbal medicines is to formulate herbal medicines into dosage forms, and meet the requirements of quality, efficacy, safety and stability. Analysis of herbal medicines is the study of methods of chemical analysis, qualitative and quantitative analysis of chemical components, chemical analysis of formulations. The objectives of this course are to develop an understanding of the underlying principles of the analytical methodology used in identifying and quantifying the main chemical components of herbal medicines, as well as contaminants and impurities, and to become familiar with the concepts of method validation and stability-indicating analysis as applied to herbal substances.

Textbooks

HERB5556
Herbal Toxicology
Credit points: 6 Session: Semester 2 Classes: lectures 3 hrs/wk for 7 wks, practicals, tutorials, 3 hrs/wk for 4 wks Assessment: examinations (50%), assignments (25%), practical work (25%)

Herbal toxicology deals with the theory and application of toxicology and safety aspects related to the herbal medicine industry and practice. Topics in this unit of study will include: mechanisms of toxicity, toxicological testing, toxicity of plants, adverse reactions, report mechanisms for adverse reactions, contraindications and interactions with pharmaceutical drugs, scheduling of pharmaceutical and herbal medicines, list of toxic herbs.

Textbooks

HERB5557
Pharmacognosy
Credit points: 6 Session: Semester 2 Classes: lectures 3 hrs/wk for 9 wks, practicals, tutorials, 3 hrs/wk for 3 wks Assessment: examinations (50%), assignments (25%), practical work (25%)

Pharmacognosy is the study of natural substances, principally plants, used in medicine. The current subject, pharmacognosy-identification of herbs focuses on the study of herbal identification and quality and development of new herbal resources. It utilizes experience of traditional medicine and theory and methods of modern sciences such as botany, zoology, and chemistry. It studies the origin, characteristics,
microscopic characters, chemical components, physical and chemical properties of herbal medicines to ensure the quality of herbal materials and develop new resources.

Textbooks

HERB5558 Clinical Studies and Monographs
Credit points: 6 Session: Semester 2 Classes: 3 hrs/wk for 11 wks, practicals, tutorials, 3 hrs/wk for 4 wks Assessment: examinations (50%), assignments (25%), practical work (25%)
Module 2 covers the evaluation of clinical studies which refers to the amount of scientific and clinical literature on herbal medicines which is rapidly expanding. This subject will cover the quantitative aspects of study design, the extent and type of use of herbal medicines in world communities, evaluation of methodology of clinical trials, recent developments in clinical trials of herbal medicines in Australia and overseas, literature search training. Module 2 covers herbal monographs which is the information and application of common herbs and herbal preparations available in Australia. Topics will cover botanic description, traditional usage, chemical composition, pharmacology, therapeutic application, toxicity, clinical trial data, TGA regulatory status, and products in the market.

Textbooks
National Statement on Ethical Conduct in Research Involving Humans, National Health and Medical Research Council, 1999.
DeAngelis C. An Introduction to Clinical Research. Oxford University Press.
Monographs on the Medicinal Uses of Plant Drugs, European Scientific Cooperative on Phytotheraphy.

HERB5559 Chinese Herbal Formulas and Processing
Credit points: 6 Session: Semester 2 Classes: lectures 3 hrs/wk for 11 wks, practicals, tutorials, 3 hrs/wk for 3 wks Assessment: examinations (50%), assignments (25%), practical work (25%)
A formula of Chinese medicine is a preparation of a number of herbs for clinical use according to certain guidelines, on the basis of pattern differentiation and treatment methods. Formulary of Chinese medicine is based on the study of theory and application of formulae of Chinese medicine. Processing of Chinese medicine is a subject dealing with the history, knowledge and techniques of processing of Chinese materia medica, and the quality standard of processed herbs and the principles of processing. The objective of processing of Chinese herbal medicines is to maintain the quality of processed herbs, and ensure the safety and clinical efficacy of herbal medicines.

Textbooks

HERB5560 Dissertation
Credit points: 12 Session: Semester 1, Semester 1a, Semester 1b, Semester 2, Semester 2a, Semester 2b Classes: Weekly meetings with Coordinator and Supervisor. Students are required to spend around 24 hours per week on their project for one semester on a part-time basis. Assessment: Research and dissertation of up to 20,000 words, or as a manuscript (approx. 3500 words). The manuscript should reflect the style and content of a nominated journal. The dissertation or manuscript should be bound and will be sent to two examiners. Note: Department permission required for enrolment.
Associated degrees: M Herb Med (Hons).
To be eligible to apply for the Dissertation students need an average weighted mark of at least 65 in 24 credit points of core unit coursework in Semester 1, an average that must be maintained in Semester 2. Approved students are then required to undertake a small supervised research project in herbal medicines and complete a formal Dissertation component. The offer of Dissertation is subject to availability of staff and laboratory space. Students enrolled in the Master of Herbal Medicines (Honours) will undertake a research project over half (full-time) to one semester (part-time students). This research project will involve a literature review, the development of a research proposal and protocol, obtaining ethics approval, and collection of data, and then preparation of a minor treatise under the supervision of a Faculty Staff. Supervision will normally involve a one-hour per week meeting with the student’s supervisor. Facilities and equipment appropriate to the research will be arranged within the School as needed. Students will be required to write a major treatise up to 20,000 words documenting an original research endeavour in the area of herbal medicines. Students will be expected to attend the Postgraduate Research Symposium and to present their research proposal and their ongoing work to peer review.

PCOL5001 Current Topics in Pharmacology
Credit points: 6 Teacher/Coordinator: Associate Professor Ian Spence Session: Semester 1 Classes: 2hrs of lectures and 3hrs laboratory classes/workshops per week Assessment: examination (60%), in-semester assessments (40%)
Associated degrees: M Pharm.
This unit aims to develop students’ understanding of the therapeutic applications of drugs based on their underlying pharmacodynamic and pharmacokinetic properties, concentrating on the pharmacology of agents most widely used in Australia and exploring issues related to the use and safety of these agents.

PHAR5505 Clinical Residency 1
Credit points: 12 Teacher/Coordinator: Dr B Bajorek Session: S2 Late Int Classes: presented primarily as off-campus experiential placements with campus-based tutorials/workshops Corequisites: PHAR5515 Assessment: Continuous assessment via skill-based competencies (30%); tutorial/workshop participation, including pre-work (30%); oral presentation (20%); reflection (10%); and preceptor evaluation (10%).
Associated degrees: M Pharm.
This unit of study integrates the information and skills developed in Pharmacy Practice A or Pharmacy Practice M1 within an experiential setting, providing students with the opportunity to enhance their knowledge and skill base. Students will undertake their learning within both the community and hospital setting, where they will: observe the role of the pharmacist, and their relationship to other health care professionals, within the health care team; utilise their communication skills to educate, and deliver drug information to, pharmacy clients (patients, pharmacists, health professionals, peers); and develop their clinical knowledge by observing, monitoring, and researching the application of pharmacotherapy to patient care, focusing on the core therapeutic areas (as covered in coursework). Additionally, students will participate in campus-based (face-to-face and/or on-line) tutorial and/or workshop sessions that will enable them to demonstrate, in a group setting, clinical knowledge and skill development, as well as provide a forum to discuss various practice issues, as experienced during clinical placement.
PHAR506
Pharmaceutical Chemistry 2B
Credit points: 6  Teacher/Coordinator: Dr R Roubin  Session: Semester 2
Classes: lectures, self-directed learning or workshops/w. Prerequisites: PHAR5516  Assessment: Exam (50%), structure based drug design (15%), drug action workshop I (20%), drug action workshop II (15%)
Associated degrees: M Pharm.

The aim of this unit of study is to explore recent advances in drug technology and to illustrate how basic research underpins clinical practice and pharmaceutical care. Students will be exposed to the newly developed and "up-and-coming" biotechnologies such as gene therapy, immunotherapies and prodrugs in the context of neurologic disorders, inflammatory diseases, cancer and AIDS. Students will also obtain molecular insights into the actions of natural products and structure based design. On successful completion of this unit of study, students will: (i) be aware of the latest advances in drug technology; (ii) understand how basic research underpins clinical practice and pharmaceutical care; (iii) have developed advanced literature searching skills and be able to comprehend the work in original research articles and extract the relevant information from those articles; (iv) have improved their writing and oral communication skills; (v) comprehend the role computational chemistry plays in determining the molecular basis of drug action. This unit of study will hone the student's critical thinking, literature searching and scientific presentation skills - thus equipping the students with the essential skills for life-long learning.

Textbooks
DA Williams & TL Lemke Foye's Principles of Medicinal Chemistry (Lippincott Williams & Wilkins, 5th Ed, 2002)

PHAR507
Dispensing Practice
Credit points: 6  Teacher/Coordinator: E Sainsbury  Session: Semester 1
Classes: presented on campus as lectures, workshops and practical classes. Prerequisites: PHAR5517  Assessment: Practical exams 30%, written exam 30%, continuous practical assessment 30%, dispensing portfolio 10%.
Associated degrees: M Pharm.

Introduction to dispensing practice, accuracy in dispensing, legal aspects of dispensing prescriptions, procedures for dispensing prescriptions, documentation of dispensing procedures, containers and labelling of dispensed medicines, dispensing of particular formulations, effect of changing formulation variables on the physical properties and efficacy of pharmaceutical products, dispensing and therapeutics, dosage, pricing of prescriptions. A series of workshops and practical classes complements the lectures, allowing students to dispense and critically assess a variety of pharmaceutical products and a range of proprietary items, as well as facilitating the development of error-detection skills. During the second half of the semester, the process of dispensing is extended to include therapeutic aspects and recommendations.

Textbooks

PHAR508
Pharmacy Practice B
Credit points: 6  Teacher/Coordinator: Dr S Megalli  Session: Semester 1
Classes: presented as lectures and tutorials. Prerequisites: PHAR5518 and PHAR5505  Assessment: Tutorial contribution 40% and written exam 60%
Associated degrees: M Pharm.

This Unit of Study (UoS) is a continuation of Pharmacy Practice A. A number of therapeutics topics will be covered in a problem-based learning format. Practice-based tutorials will be supplemented with relevant therapeutics lectures and other learning resources. Students will explore the role of the pharmacist in advising on primary and self care, performing clinical interventions, conducting medication reviews, monitoring therapeutic outcomes and participating in therapeutic decision making within these therapeutic areas. This UoS will facilitate students to gain in-depth knowledge about the pharmacotherapy of disease states through self-directed learning. Themes such as evidence based practice, pharmacoeconomics, drug information, medication safety, ethics and communication skills will be incorporated throughout the UoS.

Textbooks

PHAR509
Integrated Pharmaceutics
Credit points: 6  Teacher/Coordinator: Dr M Bebawy  Session: Semester 2
Classes: workshops, self-directed learning. Prerequisites: PHAR5517  Corequisites: PHAR5514  Assessment: Exam (55%), oral presentation (15%), quizzes (30%)
Associated degrees: M Pharm.

The overall theme of this unit of study is "Drug discovery and development". It is designed to integrate and apply knowledge from the various sub-disciplines within Pharmaceutics including Physical Pharmaceutics, Pre-formulation Science, Formulation, Biopharmaceutics, Pharmacokinetics, Pharmacodynamics, Pharmacogenetics and Pharmacogenomics. Workshop scenarios will deal with all various aspects of Pharmaceutics and simulate real-life situations. The literature review/project will further enhance the students learning in this area by self directed learning and reference to the literature in this area.

Textbooks

PHAR510
Pharmacy Practice C
Credit points: 6  Teacher/Coordinator: Dr K Williams  Session: Semester 2
Classes: presented as lectures and tutorials. Corequisites: PHAR5508  Assessment: Tutorial contribution 40% and exams 60%
Associated degrees: M Pharm.

This Unit of Study (UoS) is a continuation of Pharmacy Practice A and B. A number of therapeutics topics will be covered in a problem-based learning format. Practice-based tutorials will be supplemented with relevant therapeutics lectures and other learning resources. Students will explore the role of the pharmacist in advising on primary and self care, performing clinical interventions, conducting medication reviews, monitoring therapeutic outcomes, participating in therapeutic decision making and involvement in health promotion and public health within these therapeutic areas. Themes such as evidence based practice, pharmacoeconomics, drug information, medication safety, ethics and communication skills will be incorporated throughout the UoS.

Textbooks

PHAR512
Clinical Residency 2
Credit points: 12  Teacher/Coordinator: Prof J Brian  Session: S2 Late Int
Classes: presented primarily as campus experiential placements. Corequisites: PHAR5508 and PHAR5510  Assessment: Reflective diary 20%, portfolio of cases and activities, 10%, preceptor evaluation 40%, case study or project 30%
Associated degrees: M Pharm.

PHAR512 Clinical Residency 2 is an experiential Unit of Study. The placements will provide students with opportunities to enhance their knowledge and skill-base within clinical and professional settings. The Residency sites may include primary and tertiary health care, general and specialist practice in rural and metropolitan areas, professional organisations and Quality Use of Medicines settings, and the pharmaceutical industry. Two blocks are undertaken, one (two weeks) in July and one (two weeks) in November. The July block must be undertaken in a clinical setting (either community pharmacy or hospital). This unit of study requires satisfactory completion of both blocks.

4. Postgraduate degree requirements
PHAR5513  
Pharmaceutical Chemistry 1A  
Credit points: 6  
Teacher/Coordinator: Dr J Hanahan  
Session: Semester 1  
Classes: lectures, tutorials, self-directed learning and labs.  
Assessment: exam 60%, laboratories 25%, workshops 10%, modelling 5%.

Associated degrees: M Pharm.

This unit will explore the physicochemical properties of drugs and how this determines the interactions of small molecules (drugs) with biological macromolecules (enzymes and receptors). All stages in the process of drug design and development will be investigated, including computational drug design, structure activity studies, synthesis and activity assays. Students will also gain experience in a variety of experimental techniques related to drug design. In addition, students will develop skills including critical thinking, the use of information technology and report writing.

Textbooks  
Patrick GL. An Introduction to Medicinal Chemistry (3rd edn). Oxford University Press, 2005

PHAR5514  
Pharmaceutics 2A  
Credit points: 6  
Teacher/Coordinator: Dr M Bebawy  
Session: Semester 1  
Classes: lectures and tutorials.  
Assessment: Exam 50%, quizzes 50%.

Associated degrees: M Pharm.

This unit of study deals with fundamental concepts in pharmacokinetics, followed by the application of these principles to clinical situations. The influence of pharmacogenetics on drug therapy is also presented. Lecture topics on basic pharmacokinetic principles include: introduction to pharmacokinetics, design of pharmacokinetic studies, mono-exponential pharmacokinetics, drug transporters in pharmacokinetics, moment analysis, drug distribution, IV infusion kinetics, multi-exponential pharmacokinetics, kinetics following extravascular doses, bioavailability/Equivalence, drug clearance mechanisms, renal clearance, hepatic clearance, metabolite kinetics, nonlinear pharmacokinetics, multiple dose kinetics, pharmacodynamics and drug transporters in pharmacokinetics. Additional basic pharmacokinetic theory and its application to clinical situations will also be presented. Pharmacokinetic principles will be applied to drug dosage regimen design and dosage adjustment in different patient groups. Clinical pharmacokinetic aspects that will be considered include: variability in drug pharmacokinetics and pharmacodynamics, pharmacogenetics and pharmacogenomics, perturbations in pharmacokinetics and/or pharmacodynamics in disease, general principles of therapeutic drug monitoring, interpretation of pharmacokinetic information and considerations in drug interactions.

Textbooks  
Recommended texts: Clinical Pharmacokinetics - Ed Roland M and Tozer TN; Lippincott, Williams & Wilkins.  
Pharmacokinetics Made Easy - DJ Birkett (University of Sydney Library 615.7 366).  
Applied Biopharmaceutics and Pharmacokinetics - Shargel & Yu.  
Applied Pharmacokinetics and Pharmacodynamics - Burton, Shaw, Shantag, Evans.  
Basic Clinical Pharmacokinetics (4th ed) - Michel e Winter, Lippincott, Williams & Wilkins.

PHAR5515  
Pharmaceutical Science  
Credit points: 6  
Teacher/Coordinator: Dr R Rohanizadeh  
Session: Semester 1  
Classes: 2 hr lect/wk, 2 hr self-directed learning/wk, 3 hr workshop/wk  
Assessment: 2 x 1.5hr exams (70%), learning portfolio (10%), quiz (10%), workshop (10%)

Associated degrees: M Pharm.

This unit of study will provide an introduction to the concepts required for the study of Pharmacy and integrate knowledge from the various sub-disciplines within the Pharmaceutical Sciences. Topics studied include physicochemical properties underlying drug action, toxicology, drug metabolism, bioactivation and inactivation, identification of drugs and their metabolites, microorganisms in pharmacy, sterilisation, disinfection and preservation of pharmaceutical products, aseptic manufacture and cleanroom technology. These concepts will be further explored in workshop formats.

Textbooks  

PHAR5516  
Pharmaceutical Chemistry 1B  
Credit points: 6  
Teacher/Coordinator: Dr P Goh  
Session: Semester 2  
Classes: 6 hours/week presented as lectures, self-directed learning tutorials, laboratory practicals and workshops.  
Corequisites: PHAR5513 and PHAR5515  
Assessment: 3 hr final exam (60%); laboratories & workshops (40%)

Associated degrees: M Pharm.

This unit of study utilises the knowledge gained in PHAR5513 Pharmaceutical Chemistry 1A to develop students' ability to apply basic scientific and medicinal chemistry concepts in the rationalisation of observed biological activities for a series of drug molecules. The unit of study will be presented as a series of discrete topic areas based on therapeutic classes (hormonal, cardiovascular, herbal medicines, central nervous system, chemotherapy, antihistamines, photochemotherapy and sunscreens) and macromolecular targets (enzyme, G-protein coupled receptor, nuclear receptor). Lectures will be supported by self-directed learning and tutorials. Students will also undertake quantitative structure-activity relationship (QSAR) computer-based workshops and herbal medicine practicals as well as prepare a herbal monograph. These learning activities will further develop students' skills in critical thinking, the use of information technology and report writing.

Textbooks  
Foye W.O. et al. Principles of Medicinal Chemistry (5th edn) Williams & Wilkins, 2002  
Patrick, G. L. An Introduction to Medicinal Chemistry (3rd edn) Oxford University Press, 2005

PHAR5517  
Pharmaceutics 1B  
Credit points: 6  
Teacher/Coordinator: Dr D Traini  
Session: Semester 2  
Classes: lectures and tutorials.  
Corequisites: PHAR5515 Assessment: Pracs 20%, mid semester exam 10%, group presentations 10%, group poster 10% and final exam 50%.  
Practical field work: Laboratory classes.

Associated degrees: M Pharm.

In this unit of study students learn to evaluate the physicochemical principles, design, formulation, and manufacture of pharmaceutical dose forms. The formulation of liquid dose forms including parenteral, nasal, ophthalmic and aural products is discussed. Related topics such as diffusion and dissolution of drugs, drug solubilisation, surface and interfacial tension, surface active materials, micelle formation, pharmaceutical complexes and drug-packaging interactions are covered. Other topics covered in this unit include solid dose forms and particle science, rheology; dispersion dose forms including suspensions, colloidal dispersions, and emulsions; topical dose forms and semisolids; inhalation pharmaceutical aerosols; protein and peptide drugs and formulations; rectal products; novel drug delivery technologies. Aspects pertaining to the stability of dose forms are also presented in this unit.

Textbooks  

PHAR5518  
Pharmacy Practice A  
Credit points: 6  
Teacher/Coordinator: Dr K Williams  
Session: Semester 2  
Classes: presented as lectures, workshops and tutorials  
Assessment: tutorial contribution 40%, exams (oral and written) 60%
**Associated degrees:** M Pharm.

This unit of study (UoS) is the first of three integrated UoS (Pharmacy Practice A, Pharmacy Practice B and Pharmacy Practice C) that will be completed during the MPharm program. The UoS will commence with an introduction to the profession of pharmacy, the Australian health care and drug distribution systems, and the National Medicines Policy, including the National Strategy for Quality Use of Medicines. Themes such as evidence based practice, pharmacoepidemiology, drug information, medication safety, ethics and communication skills will be introduced early in the UoS and will then be revisited and reinforced in the remainder of Pharmacy Practice A, as well as throughout Pharmacy Practice B and C. During the second half of this UoS, a number of therapeutics topics will be covered in a problem-based learning format. Practice-based tutorials will be supplemented with relevant therapeutics lectures and other learning resources. Students will explore the role of the pharmacist in advising on primary and self care, performing clinical interventions, conducting medication reviews, monitoring therapeutic outcomes and participating in therapeutic decision making within these therapeutic areas.

**Textbooks**
4. Postgraduate degree requirements
5. Postgraduate degree regulations and policies

Resolutions of the Faculty

Master of Philosophy

1. Admission
   1.1 Except as provided in Part 9, section 47 of the University of Sydney (Amendment Act) Rule 1999, the Faculty of Pharmacy may, admit to candidature for the degree of Master of Philosophy:
     1.1.1 an applicant who holds the degree of bachelor with first or second class honours, or
     1.1.2 an applicant who holds the degree of bachelor of the University of Sydney or other approved institution without first or second class honours after the applicant has passed a qualifying examination at a standard equivalent to the bachelor’s degree with first or second class honours, provided that a faculty may exempt an applicant from the qualifying examination if the applicant has obtained at least a credit in the highest course available in the subject or subjects relevant to the proposed course of advanced study and research.
   1.2 The qualifying exam may include completion of a period of relevant full-time or part-time advanced study and/or research towards a postgraduate award course in the University of Sydney, at such a standard as would demonstrate to the satisfaction of the faculty that the candidate is suitably prepared in the particular field of study to undertake candidature for the degree of Master of Philosophy.
   1.3 The faculty may admit as a candidate for the degree an applicant holding qualifications which, in the opinion of the faculty concerned, are equivalent to those prescribed in 1.1 above and such candidate shall proceed to the degree under such conditions as the Faculty may prescribe.
   1.4 The faculty may require a candidate, as part of the evidence of the candidate’s training and ability to pursue the proposed course, to pass a special examination or assessment.
   1.5 An applicant, for admission to candidature, shall submit to the Faculty a research proposal as part of the application. This proposal will detail a course of advanced study and research, in which the work is to be carried out to be undertaken by the applicant in a discipline of the Faculty of Pharmacy.
   1.6 Admission to candidature will be conditional upon the appointment of an appropriate supervisor and associate supervisor as stipulated in the Academic Board Policy entitled “Postgraduate Research Higher Degree Training Supervision at the University of Sydney”.

2. Method of Progression
   2.1 A candidate for the Master of Philosophy shall proceed by completing a 6 credit point unit of study on research methods and by research and thesis.
   2.2 A full-time candidate shall not keep the normal academic year but shall pursue candidature for the degree continuously throughout the year except for a period of 4 weeks recreation leave and shall dedicate a minimum of 35 hours per week to their candidature.
   2.3 A candidate who does not comply with section 2.2 should be enrolled as a part-time candidate.

3. Requirements
   3.1 A Master of Philosophy candidate proceeding by research shall:
     3.1.1 complete a 6 credit point unit of study on research methods during the probationary period;
     3.1.2 complete such other assessments or units of study, if any, as may be prescribed by the head of the discipline concerned;
     3.1.3 carry out supervised research on a topic approved by the Faculty on the recommendation of the Dean;
     3.1.4 write a thesis embodying the results of this research; and
     3.1.5 lodge with the Registrar three copies of this thesis, typewritten and bound.
   3.2 The candidate shall state in the thesis:
     3.2.1 the sources from which the information was derived;
     3.2.2 the extent to which the work of others has been used; and
     3.2.3 the portion of the work claimed as original.
   3.3 The candidate may submit for candidature a thesis containing published papers of which the candidate is sole or joint author, provided that:
     3.3.1 the papers are based on work undertaken during the candidature for the degree;
     3.3.2 the papers are identified as published work;
     3.3.3 the papers are compatible with the overall coherence and organisation of the text of the thesis; and
     3.3.4 the candidate provides evidence to identify satisfactorily the sections of work for which the candidate is responsible, such as assigned, written statements from all authors attesting to the contribution of the candidate.
   3.4 Any other papers of which the candidate is sole or joint author may be lodged in support of the thesis.
   3.5 The thesis contains original contributions to the knowledge of the subject concerned;
     3.5.1 the thesis affords evidence of originality by the exercising of independent critical ability;
     3.5.2 the thesis is a satisfactory literary presentation; and
     3.5.3 material in the thesis is suitable for publication.
   3.6 The thesis shall be accompanied by a statement from the supervisor stating whether, in the supervisor’s opinion, the form of presentation of the thesis is satisfactory.
   3.7 A candidate may not present as the thesis a work which has been presented for a degree in this or another university, but will not be precluded from incorporating such in the thesis provided that in presenting the thesis the candidate indicates the part of the work which has been so incorporated.
   3.8 satisfy the requirements of all other relevant By-Laws, Rules and Resolutions of the University.

4. Probation
   4.1 A candidate will normally be accepted by the Faculty on a probationary basis for a period not exceeding twelve months.
   4.2 The provision to waive probationary acceptance would only be exercised in exceptional circumstances. All requests to waive probation will need to be approved by the Chair of the Board of Postgraduate Studies.
   4.3 A Probation Review Report must be completed by the candidate’s supervisor in consultation with the Postgraduate Coordinator and submitted to the Faculty at least four weeks before the end of probation.
   4.4 The Faculty will write to the candidate to advise of the outcome of the probation review, either confirming the candidate’s status, extending the probationary period or terminating the candidature.
   4.5 In the case of a candidate accepted on a probationary basis under section 4.1, the candidature shall be deemed to have commenced from the date of such acceptance.

5. Enrolment
   5.1 A student must be enrolled in each semester in which he or she is actively pursuing the requirements for the award course.
   5.2 The candidature of a student who has not re-enrolled and who has not obtained approval from the Faculty for a suspension of candidature for the relevant semester will be deemed to have lapsed.

6. Restrictions on enrolment
   6.1 Admission to candidature may be limited by a quota. In determining the quota the Faculty will take into account:
     6.1.1 availability of resources;
     6.1.2 availability of adequate and appropriate supervision.
   6.2 In considering an application for admission the Dean will take into account the quota.
   6.3 Entry will be based on applicants who are most meritorious in terms of Section 1 above.
7. Discontinuation of enrolment

7.1 A candidate who wishes to discontinue enrolment from the Master of Philosophy must notify the Faculty in writing and will be presumed to have discontinued enrolment from the date of that notification, unless evidence is produced showing:

7.1.1 that the discontinuation occurred at an earlier date; and
7.1.2 that there was good reason why the notification could not be made at that earlier time.

8. Suspension of candidature

8.1 A candidate who wishes to suspend their candidature must apply, in writing, to the Faculty.
8.2 The application must be received by the Faculty prior to the commencement of the relevant semester.
8.3 A candidate may only apply for a period of suspension for one semester at any one time. Should a candidate wish to suspend their candidature for more than one semester another application must be made to the Faculty for each subsequent semester, prior to the commencement of the relevant semester.
8.4 Late applications may be considered at the Faculty’s discretion.
8.5 Where the candidate has previously had two semesters of suspension the application will be considered by the Board of Postgraduate Studies for the Faculty.

9. Re-enrolment after an absence

9.1 A student must enrol in the semester following a period of approved suspension.
9.2 A student whose candidature has lapsed must apply for re-admission in accordance with procedures determined by the Faculty.

10. Satisfactory progress

10.1 At the end of each year each candidate shall complete an Annual Progress Report providing evidence of progress to the satisfaction of the supervisor, Dean, any postgraduate review committee and the Board of Postgraduate Studies.
10.2 On the basis of evidence provided, the Dean or the Chair of the Board of Postgraduate Studies shall recommend the conditions of candidature to apply for the following year and may require the candidate to provide further evidence of progress at the end of one semester or such other period as the Dean or the Chair of the Board of Postgraduate Studies considers appropriate.
10.3 If a candidate fails to submit evidence of progress or if the Dean considers that the evidence submitted does not indicate satisfactory progress, the Board of Postgraduate Studies may, on the Dean’s recommendation, call upon that candidate to show cause why that candidature should not be terminated by reason of unsatisfactory progress towards completion of the degree and where, in the opinion of the Board of Postgraduate Studies, the candidate does not show good cause, the Board of Postgraduate Studies may terminate that candidature or may impose conditions on the continuation of that candidature.

11. Credit

11.1 A candidate who, before admission to candidature, has spent time in advanced study in the University of Sydney, or in another university, or in another institution whose courses are deemed by the Faculty to be equivalent, may be deemed by the Faculty to have spent such time after admission to candidature.

12. Time limits

12.1 Except with the permission of the Faculty on the recommendation of the Dean, a full-time research candidate shall continue to have the requirements for the degree not earlier than the end of the second semester of candidature and not later than the end of the fourth semester of candidature.
12.2 Except with the permission of the Faculty on the recommendation of the Dean, a part-time research candidate shall continue to have the requirements for the degree not earlier than the end of the fourth semester of candidature and not later than the end of the eighth semester of candidature.

13. Location

13.1 Subject to approval of the supervisor, Dean and Board of Postgraduate Studies, the candidate may request a period of time away to pursue the course of advanced study and research within industrial laboratories or research institutions or other institutions considered by the Board of Postgraduate Studies on the recommendation of the Dean to provide adequate facilities and appropriate supervision for that candidature.
13.2 A candidate pursuing candidature outside Australia must also complete a minimum of one semester of candidature within the University before submission (but not necessarily immediately before submission) of the thesis.

14. Examination of thesis

14.1 The examination of a thesis for the degree of Master of Philosophy shall follow closely the examination process as stipulated by the resolutions of the Academic Board for the degree of Doctor of Philosophy (with any reference to the PhD Award Subcommittee being substituted by the Board of Postgraduate Studies) except for the following variations:
14.1.1 The Dean shall recommend the appointment of two examiners of the thesis of whom at least one shall be an external to the Faculty, not being a member of staff or a clinical academic title holder of the Faculty. Approval of the examiners is the responsibility of the Board of Postgraduate Studies.
14.1.2 The supervisor and Dean shall take all possible steps to ensure that examiners are appointed within four weeks of the submission of the thesis and where this does not occur, shall report the circumstances to the Board of Postgraduate Studies.

Master of Pharmacy

1. Admission

1.1 Eligibility for admission to the Master of Pharmacy course is based on:
1.1.1 a prior bachelor’s degree;
1.1.2 successful completion of the GAMSAT or MCAT for international applicants; 1.1.3 meeting the minimum GPA as determined by the faculty; 1.1.4 meeting a minimum of five out of the seven prerequisite units of study;
1.1.5 achieving a satisfactory mark for the Pharmacy Case Study Scenario.
1.2 Admission to candidature will be limited by quota. In determining the quota the Faculty will take into account:
1.2.1 availability of resources;
1.2.2 availability of adequate and appropriate supervision.
1.3 In considering an application for admission the Dean will take into account the quota.
1.4 Entry will be based on applicants who are most meritorious in terms of Section 1.

2. Units of study

2.1 The units of study for the degree are as set out in the Faculty Handbook.

3. Requirements for the Master of Pharmacy degree

3.1 To qualify for the award of the MPharm degree students must:
3.1.1 gain a minimum of 96 credit points by successfully completing all first year and second year units of study as set out in the Faculty Handbook;
3.1.2 satisfy the requirements of all other relevant By-Laws, Rules and Resolutions of the University.

4. Restrictions on enrolment

4.1 Refer to the University of Sydney (Coursework) Rule 2000 (as amended).

5. Progression

5.1 Except with the permission of the Faculty, candidates may not take a second year unit of study until they have:
5.1.1 satisfactorily completed all outstanding entry criteria prerequisites, as outlined in the admission criteria for the Master of Pharmacy;
5.1.2 gained credit for at least 48 credit points in first year units of study; and
5.1.3 completed the first year units of study, if any, prescribed by the Faculty as qualifying units of study or prerequisites for the second year of study, as set out in the Faculty Handbook.
5.2 Students who have failed 12 or more credit points in Year 1 will not be permitted to progress to Year 2 until they have successfully gained credit for 48 credit points in Year 1 units of study.
5.3 Candidates may not take a higher unit of study in any subject area without having previously completed the lower unit of study, if any, in the same subject.
5.4 The enrolment of candidates in units of study shall be limited by the exigencies of the timetable.
6. Discontinuation of enrolment
6.1 Refer to the University of Sydney (Coursework) Rule 2000 (as amended).

7. Suspension of candidature
7.1 A candidate who wishes to suspend their candidature must apply, in writing, to the Faculty.

7.2 The application must be received by the Faculty prior to the commencement of the relevant semester.

7.3 A candidate may only apply for a period of suspension for one semester at any time.

7.4 Should a candidate wish to suspend their candidature for more than one semester another application must be made to the Faculty for each subsequent semester, prior to the commencement of the relevant semester.

7.5 Late applications may be considered at the Faculty’s discretion.

7.6 Where a student has previously enrolled for the relevant semester, a suspension of enrolment may be recorded as Withdrawn (W) or Discontinued – Not to count as failure (DNF):

7.6.1 where that application is received within the time-frames specified by the University and published by the Student Centre; or

7.6.2 where the student meets other conditions as specified by the Faculty.

7.7 Where the candidate has previously had two semesters of suspension the application will be considered by the Board of Postgraduate studies for the Faculty.

8. Re-enrolment after an absence
8.1 A student must enrol in the semester following a period of approved suspension:

8.1.1 a student whose candidature has lapsed must apply for re-enrolment in accordance with procedures determined by the Faculty.

9. Satisfactory progress
9.1 The Faculty may:

9.1.1 call upon any candidate to show cause why that candidature should not be terminated by reason of unsatisfactory progress towards the completion of the degree; and

9.1.2 where the candidate does not show good cause, terminate the candidature.

10. Time limit
10.1 A candidate will proceed on a full-time basis and shall complete the requirements for the Master of Pharmacy degree:

10.1.1 not earlier than the end of the sixth semester; and

10.1.2 not later than the end of the twelfth semester, unless otherwise determined by the Faculty.

11. Assessment policy
11.1 With the consent of the Faculty, additional assessment will only be permitted where:

11.1.1 a specific case of special consideration has been approved by the Faculty; or

11.1.2 a student in his or her final year of study fails a single compulsory assessment resulting in a grade of fail in only that unit preventing him or her from completing the degree that year.

11.2 Refer to the Resolutions of the Academic Board relating to Assessment and Examination of Coursework.

12. Credit transfer policy
12.1 Refer to the Refer to the University of Sydney (Coursework) Rule 2000 (as amended) and the Board of Postgraduate Studies, Faculties of Dentistry, Medicine and Pharmacy, Academic Credit, Advanced Standing and Exemption Policy.

Master of Herbal Medicines
1. Admission
1.1 Except as provided in Part 9, section 47 of the University of Sydney (Amendment Act) Rule 1999 the Faculty may admit to candidature an applicant who:

1.1.1 has successfully completed a bachelor’s degree in Pharmacy, Medicine, Nursing, Chinese Medicine, Complementary Medicine, Science, Veterinary Science, Agriculture or other appropriate disciplines from approved universities or;

1.1.2 has equivalent qualifications subject to approval by the Dean.

2. Units of study
2.1 The units of study for the degree are as set out in the Faculty Handbook.

3. Requirements for the Master of Herbal Medicines
3.1 A candidate for the Master of Herbal Medicines proceeding by coursework only shall:

3.1.1 successfully complete 48 credit points of coursework covering material new to the candidate, selected from units of study prescribed by the Faculty;

3.1.2 satisfy the requirements of all other relevant By-Laws, Rules and Resolutions of the University.

4. Admission for the Honours degree
4.1 A candidate for the Master of Herbal Medicines (Honours) proceeding by coursework and dissertation shall:

4.1.1 have achieved a minimum weighted average mark of 65 in at least 24 credit points of the degree prior to admission.

5. Requirements for honours degrees
5.1 A candidate for the Master of Herbal Medicines (Honours) proceeding by coursework and dissertation shall:

5.1.1 successfully complete 48 credit points of coursework covering material new to the candidate, selected from units of study prescribed by the Faculty;

5.1.2 obtain a final weighted average mark of at least 70 in the degree totalling 60 credit points;

5.1.3 successfully carry out a supervised research project and complete the Dissertation on a topic approved by the course coordinator;

5.1.4 satisfy the requirements of all other relevant By-Laws, Rules and Resolutions of the University.

6. Restrictions on enrolment
6.1 Refer to the University of Sydney (Coursework) Rule 2000 (as amended).

7. Award of Master of Herbal Medicines
7.1 The degree of Master of Herbal Medicines shall be awarded in either a pass grade, pass with merit or honours grade.

7.2 Honours
7.2.1 A candidate may be awarded the degree with honours at graduation where the candidate:

7.2.1.1 has enrolled for and successfully completed 48 credit points of coursework and 12 credit points of research resulting in a successfully completed dissertation;

7.3 Pass with merit
7.3.1 A candidate may be awarded pass with merit at graduation where the candidate has achieved a minimum weighted average mark of 75 upon completion of all units of study.

7.3.2 If a pass level degree has already been awarded, the testamur will be replaced by the honours level degree testamur after completing all requirements.

7.3.3 Not more than five years shall have elapsed between being awarded the pass level degree and beginning requirements for the Honours level degree.

8. Discontinuation of enrolment
8.1 Refer to the University of Sydney (Coursework) Rule 2000 (as amended).

9. Suspension of candidature
9.1 A candidate who wishes to suspend their candidature must apply, in writing, to the Faculty.

9.2 The application must be received by the Faculty prior to the commencement of the relevant semester.

9.3 A candidate may only apply for a period of suspension for one semester at any one time.

9.4 Should a candidate wish to suspend their candidature for more than one semester another application must be made to the Faculty for each subsequent semester, prior to the commencement of the relevant semester.

9.5 Late applications may be considered at the Faculty’s discretion.

9.6 Where a student has previously enrolled for the relevant semester, a suspension of enrolment may be recorded as Withdrawn (W) or Discontinued – Not to count as failure (DNF):

9.6.1 where that application is received within the time-frames specified by the University and published by the Student Centre; or

9.6.2 where the student meets other conditions as specified by the Faculty.

9.7 Where the candidate has previously had two semesters of suspension the application will be considered by the Board of Postgraduate Studies for the Faculty.
Re-enrolment after an absence

10.1 A student must enrol in the semester following a period of approved suspension;
10.1.1 a student whose candidature has lapsed must apply for re-admission in accordance with procedures determined by the Faculty.

Satisfactory progress

11.1 The Faculty may:
11.1.1 call upon any candidate to show cause why that candidature should not be terminated by reason of unsatisfactory progress towards completion of either degree; and
11.1.2 where, in the opinion of the Faculty, the candidate does not show good cause, terminate the candidature.

Time limits

12.1 A part-time candidate shall complete the requirements for the Master of Herbal Medicines pass degree:
12.1.1 not earlier than the end of the fourth semester; and
12.1.2 not later than the end of the sixth semester, unless otherwise determined by the Faculty.
12.2 A part-time candidate shall complete the requirements for the Master of Herbal Medicines honours degree:
12.2.1 not earlier than the end of the fifth semester; and
12.2.2 not later than the end of the eighth semester, unless otherwise determined by the Faculty.
12.3 A full-time candidate shall complete the requirements for the Master of Herbal Medicines pass degree:
12.3.1 not earlier than the end of the second semester; and
12.3.2 not later than the end of the fourth semester, unless otherwise determined by the Faculty.
12.4 A full-time candidate shall complete the requirements for the Master of Herbal Medicines honours degree:
12.4.1 not earlier than the end of the third semester; and
12.4.2 not later than the end of the fifth semester, unless otherwise determined by the Faculty.

Assessment policy

13.1 Refer to the Resolutions of the Academic Board relating to Assessment and Examination of Coursework

Examination

14.1 On completion of the requirements for the degree, the Faculty shall determine the result of candidature.
14.2 Examination of treatise/dissertation
14.2.1 The Faculty shall appoint two examiners, of whom at least one shall be an external examiner, who is not a member of the Faculty or a member of the part-time teaching staff of the Faculty.
14.2.2 The reports of the examiners shall be transmitted to the course coordinator who shall make them available to the supervisor.
14.2.3 The course coordinator shall transmit these reports to the Faculty, together with a recommendation concerning the award of the degree, and the Faculty shall determine the result of the candidature.
14.2.4 In special cases the Faculty, on the recommendation of the course coordinator concerned, may require the candidate to take a further examination in the area of the treatise/dissertation.
14.2.5 The Faculty may permit an unsuccessful candidate to revise and resubmit the treatise/dissertation if, in the opinion of the course coordinator, the candidate's work is of sufficient merit to warrant this concession; and may prescribe special conditions to be fulfilled by the candidate.

Credit transfer policy

15.1 Refer to the University of Sydney (Coursework) Rule 2000 (as amended) and the Board of Postgraduate Studies, Faculties of Dentistry, Medicine and Pharmacy, Academic Credit, Advanced Standing and Exemption Policy.

Graduate Diploma in Herbal Medicines

Admission

1.1 Except as provided in Part 9, section 47 of the University of Sydney (Amendment Act) Rule 1999 the Faculty may admit to candidature an applicant who:
1.1.1 has successfully completed a bachelor's degree in Pharmacy, Medicine, Nursing, Chinese Medicine, Complementary Medicine, Science, Veterinary Science, Agriculture or other appropriate disciplines from approved universities or;
Graduate Certificate in Herbal Medicines

1. Admission
   1.1 Except as provided in Part 9, section 47 of the University of Sydney (Amendment Act) Rule 1999 the Faculty may admit to candidature an applicant who:
   1.1.1 has successfully completed a bachelor's degree in Pharmacy, Medicine, Nursing, Chinese Medicine, Complementary Medicine, Science, Veterinary Science, Agriculture or other appropriate disciplines from approved universities or;
   1.1.2 has equivalent qualifications subject to approval by the Dean.

2. Units of study
   2.1 The units of study for the degree are as set out in the Faculty Handbook.

3. Requirements for the Graduate Certificate in Herbal Medicines
   3.1 A candidate for the Graduate Diploma in Herbal Medicines proceeding by coursework only shall:
   3.1.1 successfully complete 24 credit points of coursework covering material new to the candidate, selected from units of study prescribed by the Faculty;
   3.1.2 satisfy the requirements of all other relevant By-Laws, Rules and Resolutions of the University.

4. Restrictions on enrolment
   4.1 Refer to the University of Sydney (Coursework) Rule 2000 (as amended).

5. Discontinuation of enrolment
   5.1 Refer to the University of Sydney (Coursework) Rule 2000 (as amended).

6. Suspension of candidature
   6.1 A candidate who wishes to suspend their candidature must apply, in writing, to the Faculty.
   6.2 The application must be received by the Faculty prior to the commencement of the relevant semester.
   6.3 A candidate may only apply for a period of suspension for one semester at any one time.
   6.4 Should a candidate wish to suspend their candidature for more than one semester another application must be made to the Faculty for each subsequent semester, prior to the commencement of the relevant semester.
   6.5 Late applications may be considered at the Faculty's discretion.

6.6 Where a student has previously enrolled for the relevant semester, a suspension of enrolment may be recorded as Withdrawn (W) or Discontinued – Not to count as failure (DNF):
   6.6.1 where that application is received within the time-frames specified by the University and published by the Student Centre; or
   6.6.2 where the student meets other conditions as specified by the Faculty.

6.7 Where the candidate has previously had two semesters of suspension the application will be considered by the Board of Postgraduate Studies for the Faculty.

7. Re-enrolment after an absence
   7.1 A student must enrol in the semester following a period of approved suspension;
   7.1.1 A student whose candidature has lapsed must apply for re-admission in accordance with procedures determined by the Faculty.

8. Satisfactory progress
   8.1 The Faculty may:
   8.1.1 call upon any candidate to show cause why that candidature should not be terminated by reason of unsatisfactory progress towards completion of either degree; and
   8.1.2 where, in the opinion of the Faculty, the candidate does not show good cause, terminate the candidature.

9. Time limits
   9.1 A part-time candidate shall complete the requirements for the Graduate Certificate in Herbal Medicines degree:
   9.1.1 not earlier than the end of the second semester; and
   9.1.2 not later than the end of the fourth semester, unless otherwise determined by the Faculty.
   9.2 A full-time candidate shall complete the requirements for the Graduate Certificate in Herbal Medicines degree:
   9.2.1 not earlier than the end of the first semester; and
   9.2.2 not later than the end of the second semester, unless otherwise determined by the Faculty.

10. Assessment policy
    10.1 Refer to the Resolutions of the Academic Board relating to Assessment and Examination of Coursework.

11. Examination
    11.1 On completion of the requirements for the degree, the Faculty shall determine the result of candidature.

12. Credit transfer policy
    12.1 Refer to the University of Sydney (Coursework) Rule 2000 (as amended) and the Board of Postgraduate Studies, Faculties of Dentistry, Medicine and Pharmacy, Academic Credit, Advanced Standing and Exemption Policy.
5. Postgraduate degree regulations and policies
The Sydney Summer and Winter Schools

The Sydney Summer and Winter Schools

<table>
<thead>
<tr>
<th>2008</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer School</td>
<td>December 2007-February 2008</td>
</tr>
<tr>
<td>Winter School</td>
<td>July 2008</td>
</tr>
</tbody>
</table>

The Summer School

The Summer School is a full fee-paying, intensive program offering high quality undergraduate and postgraduate subjects from ten faculties. These subjects are the same as those offered in Semesters One and Two, but are taught as an intensive program over summer. Some classes commence in December, others commence in the first week of January, others in the third week and continue into February (including the exam week). Some subjects run for six weeks others are shorter. Students can take a maximum of two subjects.

The Winter School

The Winter School is a smaller, more intensive program that runs for four weeks, including the exam week, in July.

Advantages

Attending classes at Sydney University during Summer and Winter School offers many advantages. You can:

- accelerate your academic career and to finish your degree sooner
- devote your full attention to a single area of study
- take subjects that are outside your normal degree
- reduce your workload throughout the rest of the year
- repeat subjects in which you may have been unsuccessful
- combine study with a field trip in Australia or a tour overseas.

For high school graduates, you can:

- sample a university subject
- get an early start on your degree.

How to apply

Applications will only be accepted online. Our website is www.summer.usyd.edu.au

Most subjects have limited places and fill very quickly. All places are filled strictly on a first in first served basis so it is recommended that you apply early.

Applications open on 26 September 2007.

Applications close on:

- 30 November, 2007 (Session 1 Summer December)
- 14 December, 2007 (Session 2 Summer Main)
- 5 January, 2008 (Session 3 Summer Late)

Late application fees may apply after these dates.

Census dates – Summer School 2008

Students can withdraw from their subject without academic penalty and receive a full refund until the census date. However, a late withdrawal fee may apply. As classes start throughout December to February there are three census dates for the Summer School. These are based on when the class commences.

The Sydney Summer and Winter Schools

<table>
<thead>
<tr>
<th>ID</th>
<th>Session name</th>
<th>Classes begin</th>
<th>Census date</th>
</tr>
</thead>
<tbody>
<tr>
<td>42*</td>
<td>Summer Dec</td>
<td>10 December</td>
<td>2 January</td>
</tr>
<tr>
<td>43</td>
<td>Summer Main</td>
<td>4 January</td>
<td>11 January</td>
</tr>
<tr>
<td>44**</td>
<td>Summer Late</td>
<td>14 January</td>
<td>6 February</td>
</tr>
</tbody>
</table>

*42 Summer Dec: Allows for a unit to run for 3-9 weeks, provided that the 20 per cent criterion is met.

**44 Summer Late: Last exam must be held by 1 March.

Withdrawal and Refund policy

- For classes commencing in December 2007, students withdrawing from a Summer School subject from 28 November 2007 to 11 January 2008, will receive a refund of tuition fees but will be liable for a $250 late withdrawal fee.
- For classes commencing after 4 January 2008, students withdrawing from a Summer School subject from 16 December 2007 to 11 January 2008, will receive a refund of tuition fees but will be liable for a $250 late withdrawal fee.
- For classes commencing after 14 January 2008, students withdrawing from a Summer School subject from 16 December 2007 to 6 February 2008, will receive a refund of tuition fees but will be liable for a $250 late withdrawal fee.
- Students may withdraw from their Summer School subject(s) up until 4pm on the last day of the Teaching Period for that particular subject. However, there may be an academic penalty (please refer to our website). The Teaching Period for purposes of this policy is defined in hours of published classes from the first day through to the last day of classes, excluding any final examination or assessment.
- Students withdrawing from a Summer School subject after 4pm on the relevant census date will receive no refund of their tuition fee.

Transferring between Summer School subjects

Students on a waitlist can transfer subjects at any time prior to the commencement of class. For all other students transfers between subjects should be completed a week before classes commence. Late transfers will attract a withdrawal fee of $250. NO transfers will be allowed after the commencement of the class.

Summer School scholarships

Merit scholarships

Three undergraduate merit scholarships and one postgraduate merit scholarship are available and are automatically awarded to the top four students who achieve the highest results in their respective faculty (Arts, Science or Economics and Business) for their Summer School subject.

Educational/Financial Disadvantage scholarships

Full Summer School scholarships are available to local undergraduate students who have a good academic record. To be eligible for consideration you will need to provide evidence of long-term and serious educational disadvantage based on two or more criteria, one of which must be financial hardship. Please check our website for further details. Applications close on 26 October 2007.

For more information

Web: www.summer.usyd.edu.au
Email: info@summer.usyd.edu.au
Phone: +61 2 9351 5542 Fax: +61 2 9351 5888
Accommodation Service

The Accommodation Service helps students find off-campus accommodation. The service maintains extensive databases of share accommodation, rental properties, and full board accommodation. Currently enrolled students can access the database online through the MyUni student portal (http://myuni.usyd.edu.au), or the accommodation website via your MyUni student portal or the Services for Students website: www.usyd.edu.au/stuserv.

Level 7, Education Building A35
University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 3312
Fax: +61 2 9351 8262
Email: accomm@stuserv.usyd.edu.au
Web: www.usyd.edu.au/accom

Admissions Office

The Admissions Office, located in the Student Centre, is responsible for overseeing the distribution of offers to undergraduate applicants through the Universities Admission Centre (UAC). They can advise prospective local undergraduate students on admission requirements. Postgraduate students should contact the appropriate faculty. If you are an Australian citizen or a permanent resident but have qualifications from a non-Australian institution phone +61 2 9351 4118 for more information. For enquiries regarding special admissions (including mature-age entry) phone +61 2 9351 3615. Applicants without Australian citizenship or permanent residency should contact the International Office.

Student Centre
Ground Floor, Carslaw Building F07
University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 4117 or +61 2 9351 4118
Fax: +61 2 9351 4869
Email: admissions@records.usyd.edu.au
Web: www.usyd.edu.au/studentcentre

Applying for a course

Domestic applicants for undergraduate courses and programs of study

For the purpose of admission and enrolment, ‘domestic applicant’ refers to citizens and permanent residents of Australia and citizens of New Zealand. If you are in this group and wish to apply for admission into an undergraduate course, you would generally apply through the Universities Admissions Centre (UAC). The deadline for application is the last working day in September in the year before enrolment. Go to the UAC website (www.uac.edu.au) for more information.

Note that some faculties, such as Pharmacy, the Sydney Conservatorium of Music and Sydney College of the Arts, have additional application procedures.

Domestic applicants for postgraduate courses and programs of study

For the purpose of admission and enrolment, ‘domestic applicant’ refers to citizens and permanent residents of Australia and citizens of New Zealand. Application is direct to the faculty which offers the
course that you are interested in. Application forms for postgraduate coursework, postgraduate research and the master’s qualifying or preliminary program and for non-award postgraduate study can be found at www.usyd.edu.au/studentcentre.

Please note that some faculties use their own specially tailored application forms for admission into their courses. Please contact the relevant faculty.

International applicants for all course types (undergraduate and postgraduate)

‘International applicants’ refers to all applicants other than Australian citizens, Australian permanent residents and citizens of New Zealand. In the majority of cases international applicants apply for admission through the University’s International Office (IO). All the information international applicants need, including application forms, is available from the IO website (www.usyd.edu.au/internationaloffice).

Assessment

For assessment matters refer to the relevant department or school.

Attendance

In cases of illness or misadventure you should complete an Application for Special Consideration form, accompanied by relevant documentation such as medical certificates, and submit it to your faculty office. The forms are available on the web at www.usyd.edu.au/studentcentre/forms.shtml, and at faculty offices and the Student Centre.

Exemption from re-attendance

Although you may have attended certain lectures or practical classes before, exemption from re-attendance at these is granted only in exceptional circumstances. In any case, you are required to enrol in all units of study in which you propose taking examinations, whether or not you’ve been granted leave of absence – or exemption – from re-attendance at lectures and/or practical work.

To obtain exemption from re-attendance, you must apply at your faculty office.

Bus service

A free bus service operates to, from and around Camperdown and Darlington campuses each weekday that Fisher Library is open (except for public holidays). The service commences at 4.15pm and concludes at Fisher Library closing time.

Two buses operate along the route, which commences at Fisher Library and terminates at Redfern station. The buses cycle through the route at approximately ten minute intervals, both during semester and in the breaks.

The bus timetable/route guide can be collected from Security Administration or Campus Infrastructure Services reception.

2nd floor
Corner of Codrington and Abercrombie Streets
Darlington Campus
G12 - Services Building
University of Sydney
NSW 2006 Australia
Phone: (02) 9351 4753
Fax: (02) 9351 5699
Web: www.security.usyd.edu.au

Campuses

The University has nine different teaching campuses spread throughout the Sydney area.

For information on each of the campuses, including maps, contact details and parking information, please see www.usyd.edu.au/about/campus/pub/campus.shtml.

<table>
<thead>
<tr>
<th>Campus</th>
<th>Faculties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camperdown and Darlington campuses</td>
<td>Faculty of Arts, Faculty of Architecture, Design and Planning, Faculty of Agriculture, Food and Natural Resources, Faculty of Economics and Business, Faculty of Education and Social Work, Faculty of Engineering and Information Technologies, Faculty of Medicine, Faculty of Pharmacy, Faculty of Science, Faculty of Veterinary Science, The Sydney Summer School</td>
</tr>
<tr>
<td>Cumberland Campus</td>
<td>Faculty of Health Sciences</td>
</tr>
<tr>
<td>St James Campus</td>
<td>Faculty of Law</td>
</tr>
<tr>
<td>Mailett Street Campus</td>
<td>Faculty of Nursing and Midwifery, The Centre for English Teaching, The NHMRC Clinical Trials Centre</td>
</tr>
<tr>
<td>Sydney Conservatorium of Music Campus</td>
<td>The Sydney Conservatorium of Music</td>
</tr>
<tr>
<td>Sydney College of the Arts campus</td>
<td>Sydney College of the Arts (SCA)</td>
</tr>
<tr>
<td>Camden Campus</td>
<td>Faculty of Veterinary Science, Faculty of Agriculture, Food and Natural Resources</td>
</tr>
<tr>
<td>Surry Hills Campus</td>
<td>Faculty of Dentistry</td>
</tr>
<tr>
<td>Burren Street Campus</td>
<td>Institute of Transport and Logistics Studies</td>
</tr>
</tbody>
</table>

Careers Centre

The Careers Centre will help you with careers preparation and graduate recruitment.

Careers Centre
Ground Floor, Mackie Building K01
University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 3481
Fax: +61 2 9351 5134
Email: info@usyd.edu.au
Web: www.careers.usyd.edu.au

Casual Employment Service

The Casual Employment Service helps students find casual and part-time work during their studies and during University vacations. The service maintains a database of casual employment vacancies. Currently enrolled students can access the database online through the MyUni student portal, or the Casual employment website via your MyUni student portal, or the Services for Students website (www.usyd.edu.au/stuserv).

Level 7, Education Building A35
University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 8714
Fax: +61 2 9351 8717
Email: ces@stuserv.usyd.edu.au
Web: www.usyd.edu.au/cas_emp
Centre for Continuing Education (CCE)
The Centre for Continuing Education offers a wide range of short courses for special interest, university preparation and professional development.

Centre for Continuing Education
160 Missenden Rd
Newtown NSW 2042

Postal address:
Locked Bag 2020
Glebe NSW 2037

Ph: +61 2 9036 4789
Fax: +61 2 9036 4799
Email: info@cce.usyd.edu.au
Web: www.cce.usyd.edu.au

Subject areas include: history and culture, creative arts, social sciences, languages, IT, business and overseas study tours. Courses are open to everyone.

Centre for English Teaching (CET)
The Centre for English Teaching (CET) offers English language and academic study skills programs to students from overseas and Australian residents from non-English speaking backgrounds who need to develop their English language skills to meet academic entry requirements.

Camperdown Campus G01
University of Sydney
NSW 2006 Australia

Phone: +61 2 9351 6000
Fax: +61 2 9351 6004
Email: support@usyd.edu.au
Web: www.itassist.usyd.edu.au

The Co-op Bookshop
The Co-op Bookshop is a one-stop bookshop for:
- textbooks
- general books
- reference books
- DVDs
- flash drives; and
- software at academic prices.

Lifetime membership costs $20 and gives great discounts on purchases (conditions apply).

Sports and Aquatic Centre Building G09
Phone: +61 2 9351 3705
Fax: +61 2 9660 5256
Email: sydu@coop-bookshop.com.au
Web: www.coop-bookshop.com.au

Counselling Service
The Counselling Service aims to help students fulfil their academic, individual and social goals through professional counselling. The Service provides short-term, problem-focused counselling to promote psychological wellbeing and to help students develop effective and realistic coping strategies. International students can access counselling assistance through the International Student Support Unit (ISSU).

Each semester the Counselling Service runs a program of workshops designed to assist students master essential study and life management skills. Workshops are available to all local and international students. For details of workshops, activities and online resources provided by the service, see the Counselling Service website via your MyUni student portal or the Services for Students website (www.usyd.edu.au/stuserv). Phone to make an appointment. Daily walk-in appointments are also available between 11am and 3pm.

Other labs are available at the Law, Westmead Hospital and Cumberland campuses.

The labs provide students free access to computers including office productivity and desktop publishing software.

Services are available on a fee for service basis which include Internet access, printing facilities and the opportunity to host their own non-commercial website.

Each student is supplied with an account, called a 'Unikkey' account, which allows access to a number of services including:
- free email (www-mail.usyd.edu.au)
- access to the internet from home or residential colleges (www.itassist.usyd.edu.au/services.html)
- student facilities via the MyUni student portal (http://myuni.usyd.edu.au), including exam results, enrolment variations and timetabling; and
- free courses in basic computing (such as MS Office; basic html and excel) that are run by Access Lab staff in the week following orientation week. To register contact the Access Lab Supervisor on +61 2 9351 6870.

Client Services, Helpdesk
University Computer Centre, H08
University of Sydney
NSW 2006 Australia

Phone: +61 2 9351 6000
Fax: +61 2 9351 6004
Email: support@usyd.edu.au
Web: www.itassist.usyd.edu.au

The Co-op Bookshop
The Co-op Bookshop is a one-stop bookshop for:
- textbooks
- general books
- reference books
- DVDs
- flash drives; and
- software at academic prices.

Lifetime membership costs $20 and gives great discounts on purchases (conditions apply).

Sports and Aquatic Centre Building G09
Phone: +61 2 9351 3705
Fax: +61 2 9660 5256
Email: sydu@coop-bookshop.com.au
Web: www.coop-bookshop.com.au

Counselling Service
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**General University information**

**Camperdown and Darlington campuses**
Level 7, Education Building A35  
University of Sydney  
NSW 2006 Australia  
Phone: +61 2 9351 2228  
Fax: +61 2 9351 7055  
Email: counsell@stuserv.usyd.edu.au  
Web: www.usyd.edu.au/counsel

**Cumberland Campus**
Ground Floor, A Block, Cumberland Campus C42  
University of Sydney  
East Street  
Lidcombe  
NSW 2141 Australia  
Phone: +61 2 9351 9638  
Fax: +61 2 9351 9635  
Email: CS.Cumberland@stuserv.usyd.edu.au  
Web: www.usyd.edu.au/counsel

**Disability Services**
Disability Services is the principal point of contact for advice on assistance available for students with disabilities. Students with a disability need to register with Disability Services to receive support and assistance. Disability Services works closely with academic and administrative staff to ensure that students receive reasonable accommodations in their areas of study.

Assistance available includes the provision of note taking, interpreters and negotiation with academic staff regarding assessment and course requirement modifications where appropriate. For details on registering with the Service, including documentation required and online resources see the Disability Services website via your MyUni student portal or the Services for Students website: www.usyd.edu.au/stuserv.

**Camperdown and Darlington campuses**
Level 7, Education Building A35  
University of Sydney  
NSW 2006 Australia  
Phone: +61 2 9351 7040  
Fax: +61 2 9351 3320  
TTY: +61 2 9351 3412  
Email: disserv@stuserv.usyd.edu.au  
Web: www.usyd.edu.au/disability

**Cumberland Campus**
Ground Floor, A Block, Cumberland Campus C42  
University of Sydney  
East Street  
Lidcombe  
NSW 2141 Australia  
Phone: +61 2 9351 9638  
Fax: +61 2 9351 9635  
Email: DS.Cumberland@stuserv.usyd.edu.au  
Web: www.usyd.edu.au/disability

**Email**
See Client Services, Information and Communications Technology

**Employment opportunities for students**
See Sydney Student Development

**Enrolment**

**Domestic and international students entering first year via UAC**
Details of enrolment procedures will be sent to you with your UAC offer of enrolment. Enrolment takes place during the last week of January.

**Domestic and international students entering first year via a direct offer from the University**
Details of the enrolment procedures will be sent to you with your university offer of enrolment. Enrolment takes place during the first two weeks of February.

**All continuing domestic and international students**
A pre-enrolment package is sent to all enrolled students in late September and contains instructions on the procedure for web-based pre-enrolment.

**Environmental Policy**
The University of Sydney’s Environmental Policy promotes sustainable resource and product use and encourages the practice of environmental stewardship by staff and students. The policy is supported by the University wide Sustainable Campus Program.

Enquiries can be directed to the Manager, Environmental Strategies  
Phone: +61 2 93512063  
Email: sustainable@usyd.edu.au  
or go to www.usyd.edu.au/sustainable where you can find out what the University is doing and how you can get involved, make suggestions or receive the Sustainable Campus Newsletter.

**Equity Support Services**
Equity Support Services, located within Student Services, brings together a number of student support services that produce practical assistance and information to support students in meeting their academic and personal goals while at University. Services include the Accommodation Service, Casual Employment Service, Childcare Information Office, Disability Services and the Financial Assistance Office. For details of these services and online resources provided see their individual entry in this Handbook or go to the MyUni student portal or the Services for Students website www.usyd.edu.au/stuserv.

**Examinations**
The Examinations and Exclusions Office looks after the majority of examination arrangements and student progression. Some faculties, such as the Sydney Conservatorium of Music, make all examination arrangements for the units of study that they offer.

**Examinations and Exclusions Office**
Student Centre  
Level 1, Carslaw Building F07  
University of Sydney  
NSW 2006 Australia  
Phone: +61 2 9351 4005 or +61 2 9351 4006  
Fax: +61 2 9351 7330  
Email: exams.office@exams.usyd.edu.au

**Fees**
The Fees Office provides information on how to pay fees, where to pay fees and if payments have been received. The office can also provide information on obtaining a refund for fee payments. Further details may be accessed online through our website at www.finance.usyd.edu.au/revenue_income/fees.shtml
Financial Assistance Office

The University of Sydney has a number of loan and bursary funds to assist students experiencing financial difficulties. Loan assistance is available for undergraduate and postgraduate students enrolled in degree and diploma courses at the University.

The assistance is not intended to provide the principle means of support but to help enrolled students in financial need with expenses such as housing bonds and rent, phone and electricity bills, medical expenses, buying textbooks and course equipment.

Loans are interest free and are repayable usually within one year. Bursaries may be awarded depending on financial need and academic merit and are usually only available to local full-time undergraduate students. Advertised bursaries, including First Year Bursaries, are advertised through the MyUni student portal in January each year.

For details of types of assistance and online resources provided by the service see the Financial Assistance website via your MyUni student portal or the Services for Students website (www.usyd.edu.au/stuserv).

Level 7, Education Building A35
University of Sydney
NSW 2006 Australia

Phone: +61 2 9351 2416
Fax: +61 2 9351 7055
Email: fao@stuserv.usyd.edu.au
Web: www.usyd.edu.au/fin_assist

Freedom of Information

The University of Sydney falls within the jurisdiction of the NSW Freedom of Information Act, 1989. The act:

- requires information concerning documents held by the University to be made available to the public
- enables a member of the public to obtain access to documents held by the University; and
- enables a member of the public to ensure that records held by the University concerning his or her personal affairs are not incomplete, incorrect, out of date or misleading.

(Note that a ‘member of the public’ includes staff and students of the University.)

It is a requirement of the act that applications be processed and a determination made within a specified time period, generally 21 days. Determinations are made by the University’s Registrar.

While application may be made to access University documents, some may not be released in accordance with particular exemptions provided by the act. There are review and appeal mechanisms which apply when access has been refused.

The University is required to report to the public on its freedom of information (FOI) activities on a regular basis and to produce two documents: a Statement of Affairs (annually) and a Summary of Affairs (every six months). The Statement of Affairs contains information about the University, its structure, function and the kinds of documents held. The Summary of Affairs identifies the University’s policy documents and provides information on how to make an application for access to University documents.

Further information and copies of the current Statement and Summary may be found at www.usyd.edu.au/arms/foi

The University is required to report to the public on its freedom of information (FOI) activities on a regular basis and to produce two documents: a Statement of Affairs (annually) and a Summary of Affairs (every six months). The Statement of Affairs contains information about the University, its structure, function and the kinds of documents held. The Summary of Affairs identifies the University’s policy documents and provides information on how to make an application for access to University documents.

Further information and copies of the current Statement and Summary may be found at www.usyd.edu.au/arms/foi

Graduations Office

The Graduations Office is responsible for organising graduation ceremonies and informing students of their graduation arrangements.

Student Centre
Carslaw Building F07
University of Sydney
NSW 2006 Australia

Phone: +61 2 9351 3199, +61 2 9351 4009
Protocol: +61 2 9351 4612
Fax: +61 2 9351 5072

(Grievances) Appeals

You may consider that a decision affecting your candidature for a degree or other activities at the University has not taken into account all relevant matters.

In some cases the by-laws or resolutions of the Senate (see the University Calendar: www.usyd.edu.au/calendar) provide for a right of appeal against particular decisions. For example, there is provision for appeal against academic decisions, disciplinary decisions and exclusion after failure.

A document outlining the current procedures for appeals against academic decisions is available at the Student Centre, at the SRC, and on the University’s policy online website: www.usyd.edu.au/policy (click on ‘Study at the University’, then click on ‘Appeals’ – see the Academic Board and Senate resolutions).

For assistance or advice regarding an appeal contact:

Undergraduates
Students’ Representative Council
Level 1, Wentworth Building G01
University of Sydney
NSW 2006 Australia

Phone: +61 2 9660 5222

Postgraduates
Sydney University Postgraduate Representative Association (SUPRA)
Corner of Raglan and Abercrombie Streets
University of Sydney
NSW 2006 Australia

Phone: +61 2 9351 3115

HECS and Fees Office

Student Centre
Ground Floor, Carslaw Building F07
University of Sydney
NSW 2006 Australia

Phone: +61 2 9351 5659
Fax: +61 2 9036 6111
INTERNATIONAL OFFICE

The International Office provides advice and assistance with application, admission and enrolment procedures for international students. The International Office also includes units responsible for international marketing, government and student relations, international scholarships, including AusAID scholarships and administrative support for international financial aid programs, and compliance with government regulations related to international students.

The Study Abroad and Exchange unit assists both domestic and international students who wish to enrol for study abroad or exchange programs.

International Office
Services Building G12
University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 4079
Fax: +61 2 9351 4013
Email: info@io.usyd.edu.au
Web: www.usyd.edu.au/internationaloffice

Study Abroad
Phone: +61 2 9351 3699
Fax: +61 2 9351 2795
Email: studyabroad@io.usyd.edu.au
Web: www.usyd.edu.au/studyabroad

Student Exchange
Phone: +61 2 9351 3699
Fax: +61 2 9351 2795
Email: exchange@io.usyd.edu.au
Web: www.usyd.edu.au/studentexchange

INTERNATIONAL STUDENT SUPPORT UNIT (ISSU)

The International Student Support Unit assists international students through the provision of orientation, counselling and welfare services to both students and their families. ISSU aims to help international students cope successfully with the challenges of living and studying in an unfamiliar culture, to achieve success in their studies and to make the experience of being an international student rewarding and enjoyable.

For details of orientation activities, counselling and welfare services provided to both students and their families and online resources, see the MyUni student portal or the Services for Students website www.usyd.edu.au/stuserv. International students also have access to all University student support services.

Camperdown and Darlington campuses
Ground Floor, Services Building G12
University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 4749
Fax: +61 2 9351 6818
Email: info@issu.usyd.edu.au
Web: www.usyd.edu.au/issu

Cumberland Campus
Ground Floor, A Block, Cumberland Campus C42
University of Sydney
East Street, Lidcombe
NSW 2141 Australia
Phone: +61 2 9351 9638
Fax: +61 2 9351 9635
Email: ISSU.Cumberland@stuserv.usyd.edu.au
Web: www.usyd.edu.au/issu

Koori Centre and Yooroang Garang

The Koori Centre and Yooroang Garang support Aboriginal and Torres Strait Islander people in all aspects of tertiary education at the University of Sydney. The Cadigal Special Entry Program assists Indigenous Australians to enter undergraduate study across all areas of the University.

As well as delivering block-mode courses for Indigenous Australian students, the Koori Centre teaches Indigenous Australian Studies in various faculties across mainstream courses. The Centre also provides tutorial assistance, and student facilities such as: computer lab, Indigenous research library and study rooms for Indigenous Australian students at the University.

In particular, the Koori Centre aims to increase the successful participation of Indigenous Australians in undergraduate and postgraduate degrees, develop the teaching of Aboriginal Studies, conduct research in the field of Aboriginal education, and establish working ties with schools and communities.

The Koori Centre works in close collaboration with Yooroang Garang, School of Indigenous Health Studies in the Faculty of Health Sciences at the University’s Cumberland Campus. Yooroang Garang provides advice, assistance and academic support for Indigenous students in the faculty, as well as preparatory undergraduate and postgraduate courses.

Koori Centre
Ground Floor, Old Teachers College A22
University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 2046 (general enquiries)
Toll Free: 1800 622 742
Community Liaison Officer: +61 2 9351 7003
Fax: +61 2 9351 6923
Email: koori@koori.usyd.edu.au
Web: www.koori.usyd.edu.au

Yooroang Garang
T Block, Level 4, Cumberland Campus C42
University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 9393
Toll Free: 1800 000 418
Fax: +61 2 9351 9400
Email: yginfo@fhs.usyd.edu.au
Web: www.yg.fhs.usyd.edu.au

LEARNING CENTRE

The Learning Centre helps students develop the generic learning and communication skills that are necessary for university study and beyond. The centre is committed to helping students achieve their academic potential throughout their undergraduate and postgraduate studies. Operating across the Camperdown and Cumberland campuses, the Centre’s program includes a wide range of workshops on study skills, academic reading and writing, oral communication skills and postgraduate writing and research skills. Other services include an individual learning program, a faculty-based program and access to online and print-based learning resources. For details of programs, activities and online resources provided by the Centre see
the website via your MyUni student portal or the Services for Students website: (www.usyd.edu.au/stuserv).

Camperdown and Darlington campuses
Level 7, Education Building A35
University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 3653
Fax: +61 2 9351 4965
Email: lc@stuserv.usyd.edu.au
Web: www.usyd.edu.au/lc

Cumberland Campus
Ground Floor, A Block, Cumberland Campus C42
University of Sydney
East Street
Lidcombe
NSW 2141 Australia
Phone: +61 2 9351 9638
Fax: +61 2 9351 9635
Email: LC.Cumberland@stuserv.usyd.edu.au
Web: www.usyd.edu.au/lc

Library
The University of Sydney Library is a network of 17 libraries located on nine campuses. The Library website (www.library.usyd.edu.au) provides access to services and resources, anywhere at anytime. The locations, opening hours and subject specialities of the libraries are listed on the website.

Over five million items are available via the Library catalogue, including more than 68,000 electronic journals and 281,000 electronic books. Past exam papers are also available online. Enrolled students are entitled to borrow from any of the University Libraries. More information is available at www.library.usyd.edu.au/borrowing.

Reading list items are available via the reserve service. Increasingly, reading list material is becoming available in electronic form. For details see the reserve service website: http://opac.library.usyd.edu.au/screens/reserve.html.

Library staff are always available to support students in their studies. ‘Ask a Librarian’ in person, by email, or by using an online chat service (www.library.usyd.edu.au/contacts/index.html).

A specialist librarian is available for all discipline areas and will provide training in finding high quality information. Courses cover a range of skills including research methodology, database searching, effective use of the Internet and the use of reference management software. See the subject contact page: www.library.usyd.edu.au/contacts/subjectcontacts.html.

Library facilities include individual and group study spaces, computers, printers, multimedia equipment, photocopiers and adaptive technologies. Check the ‘Libraries’ link on the home page (www.library.usyd.edu.au) to find out about services and facilities in specific libraries.

The Client Service Charter describes the Library’s commitment to supporting students’ learning, including those with special needs. See the Client Service Charter online: www.library.usyd.edu.au/about/policies/clientcharter.html.

Your comments and suggestions are always welcome.

University of Sydney Library F03
University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 2993 (general enquiries)
Fax: +61 2 9351 2880 (administration)
+61 2 9351 7278 (renewals)

Email: loanenq@library.usyd.edu.au (loan enquiries),
udd@library.usyd.edu.au (document delivery enquiries)
Web: www.library.usyd.edu.au

Mathematics Learning Centre

The Mathematics Learning Centre assists undergraduate students to develop the mathematical knowledge, skills and confidence that are needed for studying first level mathematics or statistics units at university. The Centre runs bridging courses in mathematics at the beginning of the academic year (fees apply). The centre also provides ongoing support to eligible students during the year through individual assistance and small group tutorials. For details of activities and online resources provided by the centre see the website via your MyUni student portal or the Services for Students website: www.usyd.edu.au/stuserv.

Level 4, Carslaw Building F07
University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 4061
Fax: +61 2 9351 5797
Email: mlc@stuserv.usyd.edu.au
Web: www.usyd.edu.au/mlc

Multimedia and Educational Technologies in Arts (META) Resource Centre
(Languages and E-Learning)

The centre provides access to recorded lectures, classroom and interactive self-paced learning materials for students of languages other than English (LOTE) and English as a second language (ESL).

The self study room provides interactive computer assisted learning and access to live multilingual satellite television broadcasts. Computer access labs provide Internet, email and word processing access. The centre also provides teaching rooms with state-of-the-art multimedia equipment, language laboratories and video conferencing facilities for Faculty of Arts courses.

Level 2, Brennan Building (opposite Manning House)
University of Sydney
NSW 2006 Australia
Phone: Library enquiries +61 2 9351 2683
For all other enquiries +61 2 9351 6781
Fax: +61 2 9351 3626
Email: For Library enquiries meta.library@arts.usyd.edu.au
For all other enquiries meta@arts.usyd.edu.au
Web: www.arts.usyd.edu.au/centres/meta

Museums and Galleries

The University of Sydney has one of the largest and finest university collections of antiquities, art, ethnography and natural history in Australia. While these collections are used for teaching, they also provide an opportunity for the University to contribute to the cultural life of the country.

University Art Collection and University Art Gallery

Founded in the 1860s, the University of Sydney Art Collection now holds more than 2,500 paintings, sculptures and works on paper by Australian, Asian and European artists. The University Art Gallery showcases changing exhibitions of works from the collection as well as high quality exhibitions of both contemporary and historical works.

War Memorial Arch
Quadrangle
Phone: (02) 9351 6883
Fax: (02) 9351 7785
Gallery: (02) 9351 6883
Website: www.usyd.edu.au/museums
Macleay Museum

The Macleay Museum had its origins in the collection of insects begun by Alexander Macleay in the late eighteenth century. It has developed into an extraordinary collection of natural history specimens, ethnographic artifacts, scientific instruments and historic photographs. A regular changing schedule of exhibitions highlights various aspects of the collection.

Macleay Building A12
Gosper Lane (off Science Road)
Phone: (02) 9351 5646
Fax: (02) 9351 5646
Email: macleaymuseum@usyd.edu.au
Website: www.usyd.edu.au/museums

Nicholson Museum

The Nicholson Museum contains the largest and most prestigious collection of antiquities in Australia. It is also the country's oldest university museum, and features works of ancient art and objects of daily life from Greece, Italy, Egypt, Cyprus the Near and Middle East, as well as Northern Europe. A regular changing schedule of exhibitions highlights various parts of the collection.

Quadangle (southern end)
Phone: (02) 9351 2812
Fax: (02) 9351 7305
Email: nicholsonmuseum@usyd.edu.au
Website: www.usyd.edu.au/museums

The Tin Sheds Gallery

The Tin Sheds Gallery is part of the Art Workshop complex within the University of Sydney's Faculty of Architecture, Design and Planning. The gallery hosts exhibitions across a wide variety of contemporary visual arts practices from individuals and groups, as well as community projects and curated exhibitions.

Tin Sheds Gallery and Art Workshops
148 City Road
Wilkinson Building
Faculty of Architecture
Phone: (02) 9351 3115
Fax: (02) 9351 4184
Email: tinsheds@arch.usyd.edu.au
Website: www.arch.usyd.edu.au/art_workshop

MyUni Student Portal

The MyUni student portal (http://myuni.usyd.edu.au) is the starting point and 'one-stop' environment for students to access all their web-based University information and services.

MyUni automatically tailors what a student sees based on their login and offers students the option of further personalising content. Most importantly, MyUni allows students to complete tasks online that would previously have required attendance in person. The following are examples of MyUni services and information:

- support services for students in health, counselling, child care, accommodation, employment and wellbeing
- student administration systems for obtaining exam results, enrolment and variations, timetabling, email services and links to courses and units of study information
- links to the University's e-learning systems
- library services
- important messages and student alerts
- information technology and support services
- information for local, indigenous and international students; and
- campus maps, with descriptions of cultural, sporting and campus facilities.

Website: http://myuni.usyd.edu.au

Orientation and O-Week

Orientation

Transition to University involves both opportunities and challenges. A successful transition is important in developing a sense of belonging and better academic adjustment and success. The University seeks to facilitate students' successful transition through a wide range of programs and activities. Orientation activities for both undergraduate and postgraduate students are scheduled at the beginning of each semester. Transition support continues throughout the Academic Year within faculties while student support services are available to assist students for the duration of their study.

For more information, visit www.usyd.edu.au/orientation

Undergraduate students

Sydney Welcome Orientation and Transition (SWOT) Program

In the week prior to Semester One, the SWOT program offers all commencing undergraduate students an opportunity to learn more about the University of Sydney. During this week you can get to know the University, develop key skills for success, discover other key resources for getting the most out of university life and develop a sense of belonging. All students are welcome to attend activities which are based at the Camperdown and Darlington campuses. Faculties based on other campuses also provide orientation activities and programs.

SWOT 2008: 27-29 February 2008. Details of SWOT activities and online resources are available at www.swot.usyd.edu.au

Postgraduate students

The University of Sydney Postgraduate Induction Program is a specialised program for postgraduate students organised by the Dean of Graduate Studies.

For more information, visit www.dogs.usyd.edu.au

USU O-Week

O-Week is the orientation event at the beginning of Semester One. Organised by the University of Sydney Union and other student organisations, it runs in parallel with the SWOT program. O-Week provides an opportunity to find out about and participate in the many clubs and societies available at the University and the services and activities of the student organisations.

It's packed with fun activities and events along with information to help you become acquainted with the University and, importantly, to help you grab hold of all of the opportunities this campus has in store for you. Rock, jazz, orchestral and choral concerts, plays, demonstrations, symposia on current affairs, reviews, competitions, sports, bus tours, games, special-interest meetings, guest speakers, debates, films, food and freebies are all organised for commencing students' participation and enjoyment. You need to know what's on and what's available in order to make the most out of your time here.

O-Week 2008: 27-29 February 2008. Programs will be available at www.usuonline.com

Part-time, full-time attendance

Undergraduate students

Undergraduate students are usually considered full-time if they have a student load of at least 0.375 each semester. Anything under this amount is considered a part-time study load.

Note that some faculties have minimum study load requirements for satisfactory progress.

Postgraduate students (Coursework)

For postgraduate coursework students part-time or full-time status is determined by credit-point load. Enrolment in units of study which total at least 18 credit points in a semester is classed as full-time. Anything under this amount is a part-time study load.
Please note that classes for some coursework programs are held in the evenings (usually 6-9pm).

Postgraduate students (Research)
Full-time candidates for research degrees do not keep to the normal semester schedule, instead they work continuously throughout the year with a period of four weeks' leave. There is no strict definition of what constitutes full-time candidature but if you have employment or other commitments that would prevent you from devoting at least the equivalent of a 35-hour working week to your candidature (including attendance at the University for lectures, seminars, practical work and consultation with your supervisor) you should enrol as a part-time candidate. If in doubt you should consult your faculty or supervisor.

International students
Student visa regulations require international students to undertake full-time study. International students on visas other than student visas may be permitted to study part-time.

Policy online
In addition to the resolutions covering specific courses there are a number of University policies that apply to students. These include:

- The code of conduct for students
- Academic honesty in coursework
- Student plagiarism: Coursework assessment and examination of coursework
- Identifying and Supporting Students at Risk

All of these policies can be accessed from the University's Policy website online (www.usyd.edu.au/policy).

Printing Service (UPS)
The University Printing Service provides printing and binding services including: high volume printing and copying, short run (low volume), four-colour process printing, finished artwork and design, including website design, document scanning, file conversion, and CD burning.

Typical UPS products range from stationery, books, brochures, handbooks, graduation certificates and examination papers through to invitations, flyers and banners.

UPS also offers a variety of finishing options plus collating, addressing and filling of envelopes, mail merge options and print-broking services.

Room 314, top floor, Services Building, Codrington Street, G12.
Phone: (02) 9351 2004
Fax: (02) 9351 7757
Email: ups@ups.usyd.edu.au
Web: www.usyd.edu.au/ups/

Privacy
The University is subject to the NSW Privacy and Personal Information Protection Act 1998 and the NSW Health Records and Information Privacy Act 2002. Central to both acts are the sets of information protection principles (IPPs) and health privacy principles which regulate the collection, management, use and disclosure of personal and health information. In compliance with the Privacy and Personal Information Protection Act the University developed a Privacy Management Plan which includes the University Privacy Policy. The Privacy Management Plan sets out the IPPs and how they apply to functions and activities carried out by the University. Both the plan and the University Privacy Policy were endorsed by the Vice-Chancellor on 28 June 2000.

Further information and a copy of the plan may be found at www.usyd.edu.au/arms/privacy.

Any questions regarding the Freedom of Information Act, the Privacy and Personal Information Protection Act, the Health Records and Information Privacy Act or the Privacy Management Plan should be directed to:

Tim Robinson: +61 2 9351 4263, or
Anne Picot: +61 2 9351 7262
Email: foi@mail.usyd.edu.au

Research Office
The Research Office administers the major government funded research awards. Details of these awards and many others may be obtained from the Research Office website at: www.usyd.edu.au/ro/training. The closing date for Australian Postgraduate Awards (APA) and University of Sydney Postgraduate Awards (UPA) is October every year; National Health and Medical Research Council (NHMRC) Postgraduate Research Scholarships usually close in mid-July. It is wise to confirm in advance the exact closing date.

Quadangle Building, A14
Phone: +61 2 9351 3250
Email: research.training@usyd.edu.au
Web: www.usyd.edu.au/ro/training

Scholarships for undergraduates
Scholarships and Prizes Office
Room 140, Ground Floor, Mackie Building KO1
University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 2717
Fax: +61 2 9036 7879
Email: scholarships.reception@usyd.edu.au
Web: www.usyd.edu.au/scholarships

Security Service
Security staff patrol the University's Camperdown and Darlington campuses 24 hours a day, 7 days a week and are easily identified by their blue uniforms and distinguishing badges.

Security Escort Service
The University's Security Escort Service may be booked by telephoning (02) 9351 3487. This service provides transportation around the Camperdown and Darlington campuses as well as to the nearest transport point at its edge (it generally operates after the Security Bus has ceased). The service is for security situations and not designed for convenience use. Requests for this service will be prioritised against other security demands.

Emergency contact
Phone: (02) 9351 3333

Enquiries
Phone: (02) 9351 3487 or 1800 063 487
Fax: (02) 9351 4555
Email: security.admin@mail.usyd.edu.au
Website: www.security.usyd.edu.au

Traffic
Phone: (02) 9351 3336

Lost Property
Phone: (02) 9351 5325

Services for Students
See Student Services
Staff and Student Equal Opportunity Unit (SSEOU)

The Staff and Student Equal Opportunity Unit works with the University community to promote equal opportunity in education and employment, to create opportunities for staff and students who have traditionally been disadvantaged by mainstream practices and policies, and to create an environment that is free from discrimination and harassment.

The Staff and Student Equal Opportunity Unit is responsible for:

- providing policy advice to staff on harassment and discrimination
- providing equal opportunity policy development, promotion and training for staff and students
- coordinating and monitoring equity programs and initiatives
- providing information and advice to staff and students on equal opportunity matters
- resolving individual staff and student concerns about harassment and discrimination
- overseeing the University's Harassment and Discrimination Resolution procedure
- monitoring and reporting to external bodies on the University's progress in the equal opportunity area.

Every student and employee at the University of Sydney has the right to expect from their fellow students and colleagues behaviour that reflects these key values, irrespective of background, beliefs or culture. In addition, every student and employee has a right to expect from the University equitable practices that preserve and promote equal opportunity to access, participate, and excel in their chosen field.

Second Floor
Margaret Telfer Building K07
Phone: (02) 9351 2212
Fax: (02) 9351 3195
Email: admin@eoo.usyd.edu.au
Web: www.usyd.edu.au/eoo

Student Centre
Ground Floor, Carslaw Building F07
University of Sydney
NSW 2006 Australia
Phone: +61 2 9351 3023 (general enquiries)
Academic records: +61 2 9351 4109
Discontinuation of enrolment: +61 2 9351 3023
Handbooks: +61 2 9351 5057
Prizes: +61 2 9351 5060
Fax: +61 2 9351 5081, +61 2 9351 5350 (academic records)
Web: www.usyd.edu.au/studentcentre

Student Identity Cards

The student identity card functions as a library borrowing card, a transport concession card (when suitably endorsed) and a general identity card. The card must be carried at all times on the grounds of the University and must be shown on demand. Details for obtaining a student card can be found at:


Student Services

The University provides personal, welfare, administrative and academic support services to facilitate your success at University. Many factors can have an impact on your wellbeing while studying at university and Student Services can assist you in managing and handling these more effectively. For details of services and online resources provided see your MyUni student portal or the Services for Students website:


Sydney Student Development

Sydney Student Development offers paid course-related employment to students with the purpose of increasing their employment prospects upon graduation. During semester, students work part-time to accommodate their study commitments and, potentially, full-time during the semester break. To learn more, please visit our website.

Sydney Student Development
University of Sydney
Web: www.usyd.edu.au/student_employment

The Sydney Summer School

Ten faculties at the University offer subjects from undergraduate and postgraduate degree programs during summer. As the University uses its entire quota of Commonwealth supported places in first and second semester, these units are full fee-paying for both local and international students and enrolment is entirely voluntary. However, Summer School subjects enable students to accelerate their degree progress, make up for a failed subject or fit in a subject which otherwise would not suit their timetables. New students may also gain an early start by completing subjects before they commence their degrees. Three Summer Sessions are offered, commencing in mid December, the first week of January and the third week of January and run for up to six weeks (followed by an examination week). Notice of the subjects available is on the Summer School website and is usually circulated to students with their results notices. A smaller Winter School is also run from the Summer School office. It commences on 3 July and runs for three weeks (followed by an examination week). It offers both postgraduate and undergraduate subjects.

To find out information about subjects offered and to enrol online visit the Summer School website:

www.summer.usyd.edu.au.

Sydney Welcome Orientation and Transition Program (SWOT)

The Sydney Welcome Orientation and Transition program (SWOT) offers a head start to commencing undergraduate students at the University, helping you to become familiar with the University and its student support services. The Library and central student support services work together with faculties to provide the SWOT program.


The University of Sydney Foundation Program (USFP)

The University of Sydney offers its foundation program to international students as a preparation for undergraduate degrees at several Australian universities.

The Foundation Program is conducted by Taylors College on behalf of Study Group Australia and the University of Sydney. The Foundation Program allows both first and second semester entry to undergraduate courses at the University of Sydney and other universities within Australia.

Phone: +61 2 8263 1888
Fax: +61 2 9267 0531
Email: info@taylorscollege.edu.au
Web: www.usyd.edu.au/foundationprogram

College Address
The University of Sydney Foundation Program
Taylors College
965 Bourke St
Waterloo NSW 2017
Phone: +61 2 8303 9700
Fax: +61 2 8303 9777
Timetabling Unit
The Timetabling Unit in the Student Centre is responsible for producing students’ class and tutorial timetables. Semester One timetables are available from the Wednesday of O Week through the MyUni website (http://myuni.usyd.edu.au).

University Health Service
The University Health Service provides a full experienced general practitioner service and emergency medical care to all members of the University community. You can consult a doctor either by appointment or on a walk-in basis (for more urgent matters only). The Health Service bills Medicare or your overseas student health care provider (Worldcare or Medibank Private) directly for the full cost of most consultations.

Email: i.marshall@unihealth.usyd.edu.au
Web: www.unihealth.usyd.edu.au
Phone: +61 2 9351 3484
Fax: +61 2 9351 4110

University Health Service (Wentworth)
Level 3, Wentworth Building G01
University of Sydney
NSW 2006 Australia
Opening hours: 8.30am–5.30pm, Mon–Fri
Phone: +61 2 9351 3484

University Health Service (Holme)
University Health Service (Holme)
Holme Building A09
Entry level, Science Rd
University of Sydney
NSW 2006 Australia
Opening hours: 8.30am–5.30pm, Mon–Fri
Phone: +61 2 9351 4095

See also the Glossary for administrative information relating to particular terms.
Students' Representative Council (SRC)
The Students' Representative Council (SRC) represents undergraduate students on all campuses through campaigns on issues affecting students, such as fee increases, course cuts and the cost of readers.

The SRC is a space where student voices can be heard. It is run by students, for students, using its resources to defend and extend students' rights. The SRC represents and advocates on students' behalf, both individually and collectively, to the University, government and the wider community. It hosts a number of collectives and runs campaigns on many issues that are important to students.

The SRC has many publications including Honi Soit, the Counter Course Handbook, Growing Strong and the O-Week Handbook. All students are invited to contribute to these publications.

Caseworkers provide students with confidential advice and advocacy. They can help with problems and questions regarding the University, government agencies, Centrelink, employers and service and accommodation providers.

A solicitor who runs the SRC branch office of Redfern Legal Centre provides free legal advice and court representation.

Emergency loans can be provided to students in need of financial assistance.

Main Office
Level 1 (underneath the Wentworth Footbridge)
Wentworth Building, City Road
Phone: (02) 9660 5222; Fax: (02) 9660 4260
Email: help@src.usyd.edu.au
Website: www.src.usyd.edu.au

Other campuses
Contact main office for details

Honi Soit
The Editors, Honi Soit
SRC Office, Wentworth Building
Phone: (02) 9660 5222; Fax: (02) 9660 4260
Email: editors@src.usyd.edu.au

The SRC Secondhand Bookshop
Level 3, Wentworth Building
Phone: (02) 9660 4756; Fax: (02) 9660 4260
Email: books@src.usyd.edu.au
Website: www.src.usyd.edu.au

Sydney University Postgraduate Representative Association (SUPRA)
SUPRA is an independent representative association providing advice, advocacy and support services for the postgraduate student community.

SUPRA represents the interests of postgraduate students at the University of Sydney by:

- Directly representing postgraduates on University policy-making bodies such as the Academic Board, its committees and working parties
- Meeting with members of the Senate on the Senate/SUPRA Liaison Committee
- Regularly consulting with the Vice-Chancellor, Registrar and other senior University officers
- Seeking to draw postgraduates together at all levels of University life.

SUPRA is both a voice and a safety net for postgraduate students at the University of Sydney.

SUPRA Council, committees and networks
The SUPRA Council is elected annually by and from the postgraduate student community. Council meetings are held monthly and postgraduate students are encouraged to attend. SUPRA committees and networks help to coordinate activities and run campaigns, and are a great way to get involved. All postgraduates can stand for SUPRA council or attend any of SUPRA’s events provided you are a SUPRA subscriber. It’s free to subscribe and you can sign up on the SUPRA website or by coming into the office and filling out a form. See www.supra.usyd.edu.au for more information.

Advice and advocacy
SUPRA employs professional Student Advice and Advocacy Officers (SAAOs) to assist postgraduate students with any academic or personal problems that may be affecting their study, including (but not limited to):

- fee paying and administrative issues
- academic appeals and exclusions
- supervision problems
- tenancy issues
- Centrelink and financial assistance concerns; and
- harassment and discrimination.

This is a free and confidential service for all postgraduates at the University of Sydney. To access the SAAO service, you must be a SUPRA subscriber. It’s free to subscribe and you can do it online, when you make an appointment or when you see a SAAO. To contact a SAAO email help@supra.usyd.edu.au, call 9351 3715 or come in to the office.

Publications
SUPRA places the highest priority upon communication, being responsive to postgraduates and encouraging maximum participation in SUPRA through the following publications:

- eXpress, a magazine-style publication
- eGrad, a regular email bulletin
- Survive!: Postgraduate Survival Manual
- Thesis Guide
- a range of factsheets and brochures.

Electronic versions of these publications are available at www.supra.usyd.edu.au.

All of SUPRA’s services, activities and publications are FREE, but please remember that to access them, you must be a SUPRA subscriber. By subscribing you also show your support for all the work that SUPRA does on your behalf. It’s free to subscribe and you can either sign up online or drop into the SUPRA offices and fill out the form.
University of Sydney Union (USU)

USU is the organisation on campus that coordinates a range of activities, programs and events, and operates services and facilities to make life on campus more enjoyable and enriching for students. USU looks after on-campus catering, recreational buildings, clubs and societies, entertainment and other social and cultural programs.

For further information on USU, please visit www.usuonline.com.

Access Card

Access is a savings and benefits program offered by USU when you become a member. The Access card offers great savings that students can take advantage of whilst on campus and boasts a range of impressive benefits off campus. The Access card offers significant savings, with a minimum 15%* discount on purchases at catering and retail outlets across the University campus.

As part of the off campus benefits, students with an Access card will have access to the Where to Enjoy program and an array of fantastic Access Partners. Access card holders enjoy great discounts on a range of products and services, including gifts, clothing, family entertainment and food. The 5 percent off groceries, petrol and homewares with Coles and Woolworths gift cards can be enjoyed by the whole family.

The card is only $99 (inc. GST). For more information, go to www.accessbenefits.com.au.

*Excludes tobacco products, public transport tickets, newspapers, academic dress hire and magazines. Does not apply on already discounted products. Does not apply to games hire.

Clubs and Societies

USU funds, accommodates, trains and supports over 250 clubs and societies – groups that students can join (or create!) and operate to pursue their own interests. Clubs and societies organise their own activities and events and are funded by USU. Being a part of a club or society is a great way to get involved in campus life, to meet people who share interests, to network and to gain valuable organisational skills, training and experience.

There are clubs and societies focused on politics, culture, the arts, the environment, religion, volunteering, skills, hobbies, departments and faculties. If there isn’t a club or society catering to your interests, look into creating your own! If you have a new concept, contact the C&S Office to find out about the registration process and the benefits of affiliation.

USU provides all clubs and societies with support through grants, venues, training and advice for a range of events and projects including barbecues, dinners, annual balls, dance parties, cocktail parties, video nights, camps, conferences, excursions, trivia nights, fundraisers, merchandise and t-shirt production, postage and printing. Registered clubs and societies are offered free use of USU meeting rooms during normal working hours (as available) and free photocopying. Registered clubs can also utilise letterbox hire and USU equipment hire.

C&S Office

Level 1, Manning House
Manning Road
University of Sydney Union, 2006.
Phone: (02) 9563 6161
Email: clubsandsocs@usu.usyd.edu.au

Sydney University Sport

Sydney University Sport manages and administers 45 sport and recreation clubs, organises sporting and recreation events, and offers student and non-student members a comprehensive range of sporting opportunities and facilities.

All student and non-student members are entitled to take part in any activities arranged, join any of the constituent clubs and use the facilities provided.

Sydney University Sport

University Sports and Aquatic Centre
Phone: (02) 9351 4960
Fax: (02) 9351 4962
Email: admin@susport.usyd.edu.au
Website: www.susport.com

Facilities

There are three main fitness centres on campus, which offer the following facilities:

University Sports and Aquatic Centre
- 50-metre heated Olympic swimming pool
- cardio/weights room
- multipurpose sports hall
- aerobics/group fitness room
- four squash courts
- six tennis courts
- cycle studio
- shops and a café
- swim coaching
- tennis coaching, and
- health assessments and personalised fitness programs.

Corner Codrington and Darlington Streets
Darlington
Phone: (02) 9351 4978
Email: nmrc@susport.usyd.edu.au
Website: www.susport.com

The Arena
- Weight training facility
- Cardio room
- Multipurpose sports hall
- The Ledge Climbing Centre
- Squash courts
- Sports clinic
- Ralph’s Café.

Western Avenue
Phone: (02) 9351 8111
Email: arena@susport.usyd.edu.au
Website: www.susport.com

HK Ward Gymnasium
- Multipurpose sports hall
- Martial arts room
- Boxing arena
- Group fitness studio
- Sports science lab.

Between Ovals 1 and 2
Phone: (02) 9351 4988
Email: hk@susport.usyd.edu.au
Website: www.susport.com

C&S Office

Level 1, Manning House
Manning Road
University of Sydney Union, 2006.
Phone: (02) 9563 6161
Email: clubsandsocs@usu.usyd.edu.au
Completion within the expected duration

Education Providers are required to ensure that international students complete their studies within the duration specified on the electronic Confirmation of Enrolment (eCoE). Extensions to a student’s course duration are allowed only in limited circumstances. For example, for compassionate or compelling reasons, where an intervention strategy has been implemented or where there has been an approved leave of absence or suspension.

It is important for students to ensure they are on track to complete their studies within the expected duration, or that they have permission from their faculty to extend their duration.

Satisfactory academic progress

Maintaining satisfactory course progress is a mandatory Student Visa condition. Education providers are required to monitor course progress, intervene where students are at risk of failing to achieve satisfactory course progress, notify students who fail to achieve satisfactory course progress and report students who fail to achieve satisfactory course progress.

It is important that every student is aware of the course progress rules for their course and participates in the intervention strategies implemented by their faculty. Exclusion from a course due to unsatisfactory progress can have serious implications for Student Visa holders including visa cancellation and restrictions on returning to Australia.

The University provides many avenues of support for students who are struggling academically. International students who are experiencing any difficulties with their academic progress should consult their faculty, the International Student Advisers in the International Office or the counsellors in the ISSU.

Distance/web-based study

International students may undertake no more than 25 percent of their total course by distance and/or online learning. Students must not enrol in exclusively distance or online study in any compulsory study period.

Work permits

International students with a work permit are permitted to work for up to 20 hours during semester and full-time during the University’s official vacation periods. Contact the International Student Advisers in the International Office for more information.

Change of address

International students must notify the University of their residential address within seven days of arrival and notify any change of address within seven days. This should be done online via the University’s MyUni Web portal.

Sponsored students

Sponsored students will need permission from their sponsors before transferring courses, suspending their studies or varying their study load. Australian Government sponsored students (AusAID, Endeavour) and Asia Development Bank (ADB) sponsored students should contact the International Office in the early stages of considering a change to their program.

Suspension/discontinuation

The University is required to report to DIAC (Department of Immigration and Citizenship) international students who discontinue or suspend their studies. Students who suspend their studies for medical or compassionate reasons should contact the International Student Advisers in the International Office urgently.

Overseas student health cover

Australian Student Visa holders must maintain overseas health cover for the duration of their stay. The International Office arranges program length health cover.

International Office

The International Office (IO) provides advice and assistance relating to academic programs for international students, as well as administrative services including application, admission, fee payment and enrolment services.

The International Office also coordinates student exchange and study abroad programs and other inter-institutional links.

Mailing address:
International Office
Services Building G12
The University of Sydney
NSW 2006, Australia

Street address:
Ground Floor
Services Building G12
Corner of Abercrombie and Codrington Streets
The University of Sydney

International Telephone: +61 2 9351 4079
Future student enquiries: 1800 899 376 (domestic free call)
Fax: +61 2 9351 4013
Email: info@io.usyd.edu.au
Web: www.usyd.edu.au/internationaloffice/
ISSU (International Student Support Unit)

The International Student Support Unit (ISSU) provides support to International students through the provision of information, orientation programs, welfare advice and counselling.

The ISSU provides advice to international students on:

- preparations before leaving their home country
- what to expect upon arrival in Sydney
- emotional changes that can take place when moving to a different country
- academic concerns, including understanding the University system and liaising with staff members
- preparing family visit letters
- preparing to return to their home country.

The ISSU has two offices:

**Main campus**
Level 1, Services Building G12
Codrington Street, Darlington
Phone: 9351 4749
Email: info@issu.usyd.edu.au
Web: www.usyd.edu.au/stuserv/issu/

**Cumberland campus**
Ground Floor, A Block
C42, Cumberland Campus
75 East St
Lidcombe NSW 2141
Phone: 9351 9638
Email: ISSU.Cumberland@stuserv.usyd.edu.au
Web: www.usyd.edu.au/stuserv/issu/

**Additional information**

For more information related to international students, please see the Glossary in this handbook.
Calendar
The annual University of Sydney Calendar and its online updates are the University of Sydney’s central source of official information.

The Calendar provides general and historical information about the University of Sydney, the statutes and regulations under which it operates and the Resolutions of the Senate relating to constitutions of and courses in each faculty. The statutes and regulations, as well as some Resolutions of the Senate, also appear in Policy Online (www.usyd.edu.au/policy).

Along with the University of Sydney Handbooks, the Calendar forms the official legal source of information relating to study at the University of Sydney.

The Calendar 2007 is available in hard copy from the Student Centre. It is also available online, at www.usyd.edu.au/calendar. The PDF and Word document files can be downloaded and printed if required.

Coursework Rule
It is very important that students are aware of the University of Sydney (Coursework) Rule 2000, which governs all coursework award courses in the University.

The Coursework Rule relates to:
• award course requirements
• credit points and assessment
• enrolment
• credit
• cross-institutional study and its upper limits
• progression
• discontinuation of enrolment and suspension of candidature
• unsatisfactory progress and exclusion
• exceptional circumstances
• award of degrees
• diplomas and certificates
• transitional provisions.

It is to be read in conjunction with two other documents:
• University of Sydney (Amendment Act) Rule 1999; and
• Resolutions of the Senate and the faculty resolutions relating to each award course. These are found in the relevant faculty handbook.

The Coursework Rule can be found in the following locations:
• University Calendar (print or online version, found at www.usyd.edu.au/calendar)
• Policy Online (www.usyd.edu.au/policy)
• Handbooks website: www.usyd.edu.au/handbooks/coursework_rule.shtml

PhD Rule
The University of Sydney (Doctor of Philosophy (PhD)) Rule 2004 deals with matters relating to the degree of Doctor of Philosophy, including admission, probation, supervision and submission of theses.

It is to be read in conjunction with two other documents:
• University of Sydney (Amendment Act) Rule 1999; and
• Resolutions of the Senate and the faculty resolutions relating to each award course. These are found in the relevant faculty handbook.

The PhD Rule can be found in the following locations:
• Calendar 2007 (print or online version, found at www.usyd.edu.au/calendar)
• Handbooks website: www.usyd.edu.au/handbooks/phd_rule.shtml

Plagiarism
The University of Sydney is opposed to and will not tolerate plagiarism. It is the responsibility of all students to:
• ensure that they do not commit or collude with another person to commit plagiarism
• report possible instances of plagiarism; and
• comply with the University’s policy and procedure on plagiarism.

The policy and procedure on plagiarism can be found at www.usyd.edu.au/policy.

The Policy Online website (www.usyd.edu.au/policy) also lists related policies and procedures, including:
• Academic Honesty in Coursework (plagiarism) policy; and

The University will treat all identified cases of student plagiarism seriously, in accordance with this policy and procedure, and with Chapter 8 of the University of Sydney By-Law 1999 (as amended), which deals with Student Discipline.

Students At Risk
The Students At Risk Policy enables early detection of students who are making poor or unsatisfactory progress and are therefore at risk of exclusion from their degree.

The policy outlines procedures and processes to support students in their ongoing studies, including:
• timely intervention and the provision of advice and assistance
• regularly and effectively advising students of Progress Requirements
• identifying students at risk
• alerting students that they are at risk
• providing assistance to address the risk; and
• tracking the progress of students after they are identified as being at risk.

For more information on this policy, please see the Secretariat website at www.usyd.edu.au/secretariat/students/riskstudents.shtml.

Grievance procedure
The University’s policy and procedures document on student grievances, appeals and applications for review is available on the Policy Online website, at www.usyd.edu.au/policy.

The Grievance Procedure document is a statement of the University’s processes for handling student grievances, appeals and applications for review regarding academic and non-academic matters.

Study at the University presents opportunities for interacting with other members of the University community. The University recognises and values the diversity of student experiences and expectations, and is committed to treating Students, both academically and administratively, in a fair and transparent manner.
Abbreviations

For a glossary of terms, describing the terminology in use at the University of Sydney, please see the glossary section.

Listed below are the more commonly used acronyms that appear in University documents and publications.

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
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<tbody>
<tr>
<td>AARNet</td>
<td>Australian Academic Research Network</td>
<td>CPSU</td>
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<tr>
<td>AAUT</td>
<td>Australian Awards for University Teaching</td>
<td>CRC</td>
</tr>
<tr>
<td>AAM</td>
<td>Annual Average Mark</td>
<td>CREO</td>
</tr>
<tr>
<td>ABC</td>
<td>Activity Based Costing</td>
<td>CRICOS</td>
</tr>
<tr>
<td>ABSTUDY</td>
<td>Aboriginal Study Assistance Scheme</td>
<td>CRRI</td>
</tr>
<tr>
<td>ACER</td>
<td>Australian Council for Educational Research</td>
<td>CSIRO</td>
</tr>
<tr>
<td>AGSM</td>
<td>Australian Graduate School of Management</td>
<td>CST</td>
</tr>
<tr>
<td>ANZAAS</td>
<td>Australian and New Zealand Association for the Advancement of Science</td>
<td>CULT</td>
</tr>
<tr>
<td>APA</td>
<td>Australian Postgraduate Awards</td>
<td>CUTSD</td>
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<tr>
<td>APAC</td>
<td>Australian Partnership for Advanced Computing</td>
<td>D</td>
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<tr>
<td>APAI</td>
<td>Australian Postgraduate Awards (Industry)</td>
<td>DEST</td>
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<tr>
<td>APA-IT</td>
<td>Australian Postgraduate Awards in Information Technology</td>
<td>DET</td>
</tr>
<tr>
<td>APDI</td>
<td>Australian Postdoctoral Fellowships Industry</td>
<td>DIMA</td>
</tr>
<tr>
<td>APEC</td>
<td>Asia-Pacific Economic Cooperation</td>
<td>D-IRD</td>
</tr>
<tr>
<td>APF</td>
<td>Australian Postdoctoral Fellowship</td>
<td>DVC</td>
</tr>
<tr>
<td>AQF</td>
<td>Australian Qualifications Framework</td>
<td>E</td>
</tr>
<tr>
<td>ARC</td>
<td>Australian Research Council</td>
<td>EB</td>
</tr>
<tr>
<td>ARTS</td>
<td>Automated Results Transfer System</td>
<td>EFTSU</td>
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<tr>
<td>ASDOT</td>
<td>Assessment Fee Subsidy for Disadvantaged Overseas Students</td>
<td>EFTSL</td>
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<tr>
<td>ATN</td>
<td>Australian Technology Network</td>
<td>EIP</td>
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<tr>
<td>ATP</td>
<td>Australian Technology Park</td>
<td>ELICOS</td>
</tr>
<tr>
<td>ATPL</td>
<td>Australian Technology Park Limited</td>
<td>EMU</td>
</tr>
<tr>
<td>AUQA</td>
<td>Australian Universities Quality Agency</td>
<td>ESOS Act</td>
</tr>
<tr>
<td>AusAID</td>
<td>Australian Agency for International Development</td>
<td>F</td>
</tr>
<tr>
<td>AUTC</td>
<td>Australian Universities Teaching Committee</td>
<td>FlexIS</td>
</tr>
<tr>
<td>AVCC</td>
<td>Australian Vice-Chancellors Committee</td>
<td>FHS</td>
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<tr>
<td>BOTPLS</td>
<td>Bridging for Overseas Trained Professionals Loans Scheme</td>
<td>FOS</td>
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<tr>
<td>C</td>
<td>D</td>
<td>E</td>
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<tr>
<td>CAF</td>
<td>Cost Adjustment Factor</td>
<td>FFT</td>
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<tr>
<td>CPS</td>
<td>Campus Property Services</td>
<td>FlexIS</td>
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<tr>
<td>CAUT</td>
<td>Committee for Advancement of University Teaching</td>
<td>FHS</td>
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<tr>
<td>CDP</td>
<td>Capital Development Program</td>
<td>FO</td>
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<tr>
<td>CEP</td>
<td>Country Education Profile</td>
<td>FRM</td>
</tr>
<tr>
<td>CEQ</td>
<td>Course Experience Questionnaire</td>
<td>GATS</td>
</tr>
<tr>
<td>CES</td>
<td>Casual Employment Service</td>
<td>GCCA</td>
</tr>
<tr>
<td>CFO</td>
<td>Chief Financial Officer</td>
<td>GDS</td>
</tr>
<tr>
<td>CHASS</td>
<td>College of Humanities and Social Sciences</td>
<td>GPOF</td>
</tr>
<tr>
<td>CHESSN</td>
<td>Commonwealth Higher Education System Student Number</td>
<td>GSA</td>
</tr>
<tr>
<td>CHS</td>
<td>College of Health Sciences</td>
<td>GSG</td>
</tr>
<tr>
<td>CIO</td>
<td>Chief Information Officer</td>
<td>GWISLN</td>
</tr>
<tr>
<td>COE</td>
<td>Confirmation of Enrolment</td>
<td>H</td>
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<tr>
<td>HECS</td>
<td>Higher Education Contribution Scheme</td>
<td>HEB</td>
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</table>

To view the latest update, download, purchase or search a handbook visit Handbooks online. http://www.usyd.edu.au/handbooks
<table>
<thead>
<tr>
<th>Abbreviations</th>
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<tr>
<td><strong>H</strong></td>
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<tr>
<td>HEFA Higher Education Funding Act 1988</td>
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<tr>
<td>HEIMS Higher Education Information Management System</td>
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<tr>
<td>HEIP Higher Education Innovation Program (DEST)</td>
</tr>
<tr>
<td>HELP Higher Education Loan Program</td>
</tr>
<tr>
<td>HEO Higher Education Officer</td>
</tr>
<tr>
<td>HEP Higher Education Provider</td>
</tr>
<tr>
<td>HERDC Higher Education Research Data Collection</td>
</tr>
<tr>
<td>HESA Higher Education Support Act</td>
</tr>
<tr>
<td>HOD Head of Department</td>
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<tr>
<td><strong>I</strong></td>
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<tr>
<td>IAF Institutional Assessment Framework (This is a new name for what was previously the DEST Profile process.)</td>
</tr>
<tr>
<td>IAS Institute of Advanced Studies</td>
</tr>
<tr>
<td>ICT Information and Communication Technology</td>
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<tr>
<td>ICTR Information and Communication Technology Resources</td>
</tr>
<tr>
<td>IELTS International English Language Testing Scheme</td>
</tr>
<tr>
<td>IGS Institutional Grants Scheme (DEST)</td>
</tr>
<tr>
<td>IO International Office</td>
</tr>
<tr>
<td>IP Intellectual Property</td>
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<tr>
<td>IPRS International Postgraduate Research Scholarships</td>
</tr>
<tr>
<td>IREX International Researcher Exchange Scheme</td>
</tr>
<tr>
<td>ISFP Indigenous Support Funding Program</td>
</tr>
<tr>
<td>ISIG Innovation Summit Implementation Group</td>
</tr>
<tr>
<td>ISSU International Student Services Unit</td>
</tr>
<tr>
<td>ITC Information Technology Committee</td>
</tr>
<tr>
<td>ITL Institute for Teaching and Learning</td>
</tr>
<tr>
<td>ITS Information Technology Services</td>
</tr>
<tr>
<td><strong>J</strong></td>
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<tr>
<td>JASON Joint Academic Scholarships Online Network</td>
</tr>
<tr>
<td>LBOTE Language Background Other Than English</td>
</tr>
<tr>
<td><strong>M</strong></td>
</tr>
<tr>
<td>MISG Management Information Steering Group</td>
</tr>
<tr>
<td>MNRF Major National Research Facilities Scheme</td>
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<tr>
<td>MOU Memorandum of Understanding</td>
</tr>
<tr>
<td>MRB Medical Rural Bonded Scholarship Scheme</td>
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<tr>
<td><strong>N</strong></td>
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<tr>
<td>NBOCTP National Bridging Courses for Overseas Trained Program</td>
</tr>
<tr>
<td>NCQ National Competitive Grant</td>
</tr>
<tr>
<td>NESB Non-English-Speaking Background</td>
</tr>
<tr>
<td>NHMRC National Health and Medical Research Council</td>
</tr>
<tr>
<td>NOIE National Office for the Information Economy</td>
</tr>
<tr>
<td>NOCSR National Office for Overseas Skill Recognition</td>
</tr>
<tr>
<td>NRSL Non-Recent School Leaver</td>
</tr>
<tr>
<td>NSW VCC New South Wales Vice-Chancellors’ Conference</td>
</tr>
<tr>
<td>NTEU National Tertiary Education Industry Union</td>
</tr>
<tr>
<td><strong>O</strong></td>
</tr>
<tr>
<td>OECD Organisation for Economic Cooperation and Development</td>
</tr>
<tr>
<td>OLA Open Learning Australia</td>
</tr>
<tr>
<td>OLDPS Open Learning Deferred Payment Scheme</td>
</tr>
<tr>
<td>OPRS Overseas Postgraduate Research Scholarships</td>
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<td><strong>P</strong></td>
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<tr>
<td>PELS Postgraduate Education Loans Scheme</td>
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<td>PSO Planning Support Office</td>
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<td>Abbreviation</td>
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Glossary

For a table of the more commonly used acronyms and abbreviations that appear in University documents and publications please see the abbreviations section.

This glossary describes terminology in use at the University of Sydney.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

1:540
The University’s aspiration to achieve:

• clear leadership as Australia's premier university in research, teaching and learning and the student experience
• acknowledgement and ranking as one of the top five universities in the region
• recognition and ranking in the top 40 universities around the world.

(See University Strategic Directions.)

A

Academic Board
The senior academic body within the University. In conjunction with faculties, the Academic Board has responsibility for approving new or amended courses and endorsing faculty development of units of study. The Board is also responsible for the formulation and review of policies, guidelines and procedures in relation to academic matters.

(For further information, see the University of Sydney (Academic Governance) Rule 2003 (as amended).)

Academic Consortium 21 (AC21)
An international network, of which the University is a member, compromising educational, research and industrial organisations throughout the world with the objective of encouraging the further advancement of global cooperation to the benefit of higher education and to contribute to world and regional society.

Academic cycle
The program of teaching sessions offered over a year. Currently the cycle runs from the enrolment period for Semester One through to the completion of the processing of results at the end of Semester Two.

(See also Academic year, Stage.)

Academic dishonesty
Academic dishonesty occurs when a student presents another person’s ideas, findings or written work as his or her own by copying or reproducing them without due acknowledgement of the source and with intent to deceive the examiner. Academic dishonesty also covers recycling, fabrication of data, engaging another person to complete an assessment or cheating in exams.

(See also Plagiarism.)

Academic record
The complete academic history of a student at the University. It includes, among other things: personal details; all units of study and courses taken; assessment results (marks and grades); awards and prizes obtained; infringements of progression rules; approvals for variation in course requirements and course leave; thesis and supervision details.

Access to a student’s academic record is restricted to authorised University staff and is not released to a third party without the written authorisation of the student.

(See also Academic transcript.)

Academic transcript
A printed statement setting out a student’s academic record at the University. There are two forms of academic transcript: external and internal.

(See also Academic record, External transcript, Internal transcript.)

Academic year
The current calendar year in which a student is enrolled.

(See also Academic cycle, Stage.)

ad eundem gradum
Long-standing full-time members of the University’s academic and general staff who are not graduates of the University may be considered by Senate, upon their retirement, for admission ad eundem gradum (‘to the same degree’), to an appropriate degree of the University.

Admission
Governed by the University’s admission policy, this is the process for identifying applicants eligible to receive an initial offer of enrolment in a course at the University. Admission to most courses is based on performance in the HSC, with applicants ranked on the basis of their UAI. Other criteria such as a portfolio, interview, audition, or results in standard tests may also be taken into account for certain courses.

Admission basis
The main criterion used by a faculty in assessing an application for admission to a course. The criteria used include, among other things, previous secondary, TAFE or tertiary studies; work experience; special admission; and the Universities Admission Index (UAI).

Admission (Deferral)
An applicant who receives an offer of admission to a course may apply to defer enrolment in that course for one semester or one academic cycle.

Admission mode
A classification based on how a student was admitted to a course, for example ‘UAC’ or ‘direct’.

Admission period
The period during which applications for admission to courses are considered.

Admission year
The year the student expects to begin the course.

(See also Commencement date.)

Advanced diplomas
(See Award course.)

Advanced standing
(See Credit.)

Advisor
A member of academic staff appointed in an advisory role for some postgraduate coursework students.

(See also Associate supervisor, Instrumental supervisor/teacher, Research supervisor, Supervision.)

Aegrotat
In exceptional circumstances involving serious illness or death of a student prior to completion of their course, the award of aegrotat and posthumous degrees and diplomas may be conferred.
Alumni
(See Graduate.)

Alumni sidnieiensis
A searchable database of graduates of the University from 1857 to 30 years prior to the current year.

Annual average mark (AAM)
The average mark over all units of study attempted in a given academic year (equivalent to the calendar year).
The formula for this calculation is:

\[ AAM = \frac{\sum (\text{marks} \times \text{credit point value})}{\sum (\text{credit point value})} \]

(sums over all units of study completed in the selected period)

Where the mark is the actual mark obtained by the student for the unit of study, or in the case of a failing grade with no mark – 0. Pass/fail assessed subjects and credit transfer subjects (from another institution) are excluded from these calculations; however, the marks from all attempts at a unit of study are included.

Annual progress report
A form which is used to monitor a research student's progress each year. The form provides for comments by the student, the supervisor, the head of the department and the dean (or their nominee). The completed form is attached to the student's official file.

Annual Report
The University's yearly financial and audit report, submitted to the NSW Parliament. It also includes a broad range of the University's activities and the strength of their performance in relation to the University's stated roles, values and goals.

Appeals
Students may lodge an appeal against academic or disciplinary decisions.

Appeals against an academic decision
A student may appeal to the Student Appeals Body against a decision by the University that affects the academic assessment or progress of a student within his or her award course, including a decision:

(a) to exclude a student in accordance with the University of Sydney (Coursework) Rule 2000 (as amended)
(b) not to readmit or re-enrol a student following exclusion in accordance with the University of Sydney (Coursework) Rule 2000 (as amended)
(c) to terminate a student's candidature for a postgraduate award.
(See also Student Appeals Body.)

Appeal against a disciplinary decision
A student may appeal to the Student Disciplinary Appeals Committee against a determination being:

(a) a finding by the Vice-Chancellor or the student Proctorial Board that the student is guilty of misconduct
(b) the imposition of a penalty upon the student by the Vice-Chancellor or the Student Proctorial Board
(c) an order made by the Vice-Chancellor or the Student Proctorial Board.
(See also Student Disciplinary Appeals Committee.)

Assessment
The process of measuring the performance of students in units of study and courses. Performance may be assessed by examinations, essays, laboratory projects, assignments, theses, treatises or dissertations.
(See also Result processing, Result processing schedule.)

Formative assessment
Used principally to provide students with feedback on their progress in learning. It reinforces successful learning, and is an opportunity for students to expose the limitations in their knowledge and understanding.

Summative assessment
Used to certify competence, or to arrange students in a rank order of merit. It certifies the attainment of a standard, and is used as the basis for progression to the next part of a program, or to graduation.

Associate supervisor
A person who is appointed in addition to the supervisor of a research student, who can provide the day-to-day contact with the candidate or provide particular expertise or additional experience in supervision.
(See also Advisor, Instrumental supervisor/teacher, Research supervisor, Supervision.)

Association of Pacific Rim Universities (APRU)
A consortium of leading research universities in the Pacific Rim, of which the University is a member, which aims to foster education, research and enterprise thereby contributing to the economic, scientific and cultural advancement in the Pacific Rim.

Assumed knowledge
For some units of study, a student is assumed to have passed a relevant subject in the HSC and this is called assumed knowledge. While students are generally advised against taking a unit of study for which they do not have the assumed knowledge, they are not prevented from enrolling in the unit of study.
(See also Prerequisite.)

Attendance pattern
Attendance pattern is classified as full-time, part-time or external. This is dependant on the student's mode of attendance and the student load.

Attendance mode
A Department of Education, Science and Training (DEST) classification defining the manner in which a student is undertaking a course, i.e. internal, external, mixed or offshore.

Australian Qualifications Framework (AQF)
The framework for recognition and endorsement of qualifications established by the Ministerial Council on Education, Employment, Training and Youth Affairs (MCEETYA).

AUSTUDY
Provides financial help to students who are 25 years old or over who meet the required criteria, and are undertaking an approved full-time course at an approved institution.
(See also Youth Allowance.)

Automated Results Transfer System (ARTS)
This system was developed by the Australasian Conference of Tertiary Admissions Centres (ACTAC) to allow the electronic academic record of a student to be accessed, via an admission centre, by tertiary institutions.

Award course
(See Course.)

B

Bachelor's degree
The highest undergraduate award offered at the University. A bachelor's degree course normally requires three or four years of full-time study or the part-time equivalent.
(See also Award course.)

Barrier
An instruction placed on a student's record that prevents the student from re-enrolling or graduating.
(See also Deadlines (fees), Suppression of results.)
Board of Studies
An academic body which supervises a course or courses, and which is similar to a faculty except that it is headed by a chair rather than a dean and does not supervise PhD candidates.

Bursaries
Financial award made to a student, based primarily on need. (See also Scholarships.)

C

Calendar
(See University Calendar.)

Cadigal program
A program, named in recognition of the Aboriginal people of the land on which the University is located, designed to increase the successful participation of Aboriginal and Torres Strait Islander people in degree courses in all faculties at the University of Sydney.

Campus
The grounds on which the University is situated. There are ten campuses of the University of Sydney:

- Burren Street (Institute of Transport Studies)
- Camperdown
- Darlington
- Camden (Agriculture and Veterinary Science)
- Conservatorium (Sydney Conservatorium of Music)
- Cumberland (Health Sciences)
- Mallett Street (Nursing)
- Rozelle (Sydney College of the Arts)
- St James (Law)
- Surry Hills (Dentistry)

Cancellation
Where enrolment is cancelled for non-payment of fees.

Candidature
Candidature commences when a student is admitted to a course of study leading to the award of a degree, diploma or certificate. There are maximum periods and in some cases minimum periods of candidature depending on the award course and whether the candidate is a full-time or part-time student. (See Course Enrolment status.)

Census date
The date at which a student's enrolment, load and HECS liability are finalised before this information is reported to DEST. (See also HECS-HELP)

Ceremony
(See Graduation ceremony.)

Chancellor
The non-executive head of the University. An honorary position, the Chancellor presides over meetings of the University's governing body, the Senate, and important ceremonial occasions such as graduations.

Clinical experience
Students undertake clinical placements in a professional environment as part of their course requirements. Many require University approved supervision. In order to undertake clinical placements a student may be required to fulfil additional requirements.

Combined course
A course which leads to two awards. For example the Arts/Law course leads to the separate awards of Bachelor of Arts and Bachelor of Laws.

Combined degree
A single program with a single set of course resolutions leading to the award of two degrees (unless otherwise specified in the resolutions). (See also Combined course.)

Commencement date
The date a student commences candidature.

Commonwealth Supported Place (CSP)
(Previously known as a HECS Place). A student in a Commonwealth Supported Place makes a contribution towards the cost of their education (known as the student contribution) while the Australian Government contributes the majority of the cost.

Confirmation of Enrolment form (COE)
This form is issued to each student after enrolment, showing the course and the units of study in which the student is enrolled, together with the credit point value of the units of study and the HECS weights. Until all fees are paid, it is issued provisionally. A new confirmation of enrolment form is produced every time a student's enrolment is varied.

Conjoint ventures
Two or more institutions cooperate to provide a unit or course of study to postgraduate coursework students. Arrangements exist between individual departments at the University of Sydney and individual departments at the University of New South Wales (UNSW) and the University of Technology Sydney (UTS). In these arrangements, students enrolled for a degree at one institution complete one or more units of study at the other institution to count towards the award program at their 'home' institution.

Continuing professional education
A process which provides a number of programs of continuing education courses for professionals as they move through their career. These programs are presently administered by the Centre for Continuing Education (CCE) and a number of departments and foundations across the University. This process supports the whole of life learning concept and involves the maintenance of a long term relationship between the student and the University.

Convocation
The body compromising the Fellows and former Fellows of the Senate of the University of Sydney; members of the former governing bodies of the institutions with which the University has amalgamated or their predecessors; the graduates of the University of Sydney, which include graduates of the institutions with which the University has amalgamated or their predecessors; professors and other full-time members of the academic staff of the University; and principals of the incorporated colleges. This is as per clause 14 of the University of Sydney Act 1989.

Core unit of study
A unit of study that is compulsory for a particular course or subject area. (See also Unit of study.)

Corequisite
A unit of study which must be taken in the same semester or year as a given unit of study (unless it has already been completed). These are determined by the faculty or board of studies concerned, published in the faculty handbook and shown in FlexSIS. (See also Prerequisite, Waiver.)

Cotutelle Scheme
Agreement between the University and any overseas university for joint supervision and examination of a PhD student as part of an ongoing cooperative research collaboration. If successful, the student receives a doctorate from both universities with each testamur acknowledging the circumstances under which the award was made.

Course
An undertaking of study at the University of Sydney.

Award course
A formal course of study that will see attainment of a recognised award. Award courses are approved by Academic Board and endorsed by Senate. The University broadly classifies courses as undergraduate, postgraduate coursework or postgraduate research.
(See also Bachelor's degree, Course rules, Diploma, Doctorate, Major, Master's degree, Minor, PhD, Stream.)

Non-award course
Studies undertaken by students who are not seeking an award from the University. (See also Cross-institutional enrolment.)

Coursework
An award course not designated as a research award course. While the program of study in a coursework award course may include a component of original work, other forms of instruction and learning normally will be dominant.

Research
A course in which at least 66 per cent of the overall course requirements involve students in undertaking supervised research, leading to the production of a thesis or other piece of written or creative work, over a prescribed period of time.

Course alias
A unique five character alpha-numeric code which identifies a University course.

Board of Studies
An academic body which supervises a course or courses, and which is similar to a faculty except that it is headed by a chair rather than a dean and does not supervise PhD candidates.

Bursaries
Financial award made to a student, based primarily on need. (See also Scholarships.)

Course code
(See Course alias.)

Course enrolment status
A student's enrolment status in a course is either 'enrolled' or 'not enrolled'. 'Not enrolled' reasons include: cancelled; suspended; under examination; or terminated. (See also Cancellation, Candidature, Course leave, Enrolment, Enrolment variation, Terminated, Under examination.)

Course leave
Students are permitted to apply for a period away from their course without losing their place. Course leave is formally approved by the supervising faculty for a minimum of one semester. Students on leave are regarded as having an active candidature, but they are not entitled to a student card. At undergraduate level, leave is not counted towards the total length of the course. Students who are absent from study without approved leave may be discontinued and may be required to formally reapply for admission. (See also Progression.)

Course rules
Rules which govern the allowable enrolment of a student in a course. Course rules may be expressed in terms of types of units of study taken, length of study, and credit points accumulated. For example, a candidate may not enrol in units of study having a total value of more than 32 credit points per semester. Course rules also govern the requirements for the award of the course, e.g. a candidate must have completed a minimum of 144 credit points. (See also Award course, Corequisite, Prerequisite.)

Course suspension
(See Course leave.)

Course transfer
A transfer occurs when a student changes from one course in the University to another course in the University without the requirement for an application and selection process (e.g. from a PhD to a master's program in the same faculty).

Credit
The recognition of previous studies successfully completed at this University, or another university or tertiary institution recognised by the University of Sydney, as contributing to the requirements of the course to which the applicant requesting such recognition has been admitted. It may be granted as specified credit or non-specified credit.

Specified credit
The recognition of previously completed studies as directly equivalent to units of study.

Non-specified credit
A "block credit" for a specified number of credit points at a particular level. These credit points may be in a particular subject area but are not linked to a specific unit of study. (See also Annual average mark (AAM), Waiver, Weighted average mark (WAM).)

Credit points
The value of the contribution each unit of study provides towards meeting course completion requirements. Each unit of study normally has a 6 credit point value assigned to it. The total number of credit points required for completion of award courses will be specified in the Senate Resolutions relevant to the award course.

Cross-institutional enrolment
An enrolment in units of study at one university to count towards an award course at another university. Cross-institutional enrolments incur a student-contribution liability (see Commonwealth-supported student) or tuition fee charge at the institution at which the unit of study is being undertaken. (See also Non-award course.)

D

Data Audit Committee (DAC)
The Data Audit Committee's role is to oversee the integrity and accuracy of the course and unit of study data as strategic University data. It also advises the Academic Board on suggested policy changes related to course and unit of study data. A subcommittee of the VCAC Enrolment Working Party, it is chaired by the Registrar, with membership including the deans, the Student Centre, FlexSIS and Planning and Statistics.

Deadlines (Enrolment variations)
(See Enrolment variation.)

Deadlines (Fees)
The University has deadlines for the payment of fees (e.g. HECS, compulsory subscriptions, course fees). Students who do not pay fees by these deadlines may have their enrolment cancelled or they may have a barrier placed on the release of their record. (See also Barrier, Cancellation.)

Dean
The head of a faculty, or the principal or director of a college (such as the Sydney Conservatorium of Music or the Sydney College of Arts).

Dean's Certificate
A statement from the Dean certifying that all requirements, including fieldwork and practical work, have been met and that the student is eligible to graduate. Not all faculties use Dean's Certificates. In faculties that do, qualified students have 'Dean's Certificate' noted on their academic record.

Deferment (Deferral)
(See also Admission (deferment), Course leave.)

Degree
(See also Award course, Bachelor's degree.)
Delivery mode
Indicates how students receive the instruction for a unit of study. The delivery mode must be recorded for each unit as distinct from the attendance mode of the student, i.e. an internal student may take one or more units by distance mode and an external student may attend campus for one or more units.

Distance education
Where subject matter is delivered in a more flexible manner, such as correspondence notes, and student may only attend campus if required. (See also Extended semester, Distance education, International – off shore.)

Intensive on campus
Core content is delivered with support learning in an intensive (one or more days) format on campus. Participation is usually compulsory. Previously this may have been called residential, block mode, or weekend workshop.

On campus (normal)
Attendance of scheduled lectures, tutorials etc at a campus of the University.

Department
(See School.)

Department of Education, Science and Training (DEST)
The Commonwealth Government department responsible for higher education.

Diploma
The award granted following successful completion of diploma course requirements. A diploma course usually requires less study than a degree course. (See also Award course.)

Direct admissions
For some courses, applications may be made directly to the University. Applications are received by faculties or the International Office, and considered by the relevant department or faculty body. Decisions are recorded and letters are forwarded to applicants advising them of the outcome. (See also Admission, UAC.)

Disability information
Students may inform the University of any temporary or permanent disability which affects their life as a student. Disability information is recorded but it is only available to particular authorised users because of its sensitive nature and students will be informed of its use.

Disciplinary action
Undertaken as the result of academic or other misconduct, e.g. plagiarism, cheating, security infringement, criminal activity.

Discipline
A defined area of study, for example, chemistry, physics, economics.

Discipline group
A DEST code used to classify units of study in terms of the subject matter being taught or being researched.

Discontinuation (course)
(See Enrolment variation.)

Discontinuation (unit of study)
(See Enrolment variation.)

Dissertation
A written exposition of a topic which may include original argument substantiated by reference to acknowledged authorities. It is a required unit of study for some postgraduate award courses in the faculties of Architecture and Law.

Distance education
Where a student does not attend campus on a daily basis for a given course or unit of study. (See also Delivery mode, Extended semester.)

Doctorate
A high-level postgraduate award. A doctorate course normally involves research and coursework; the candidate submits a thesis that is an original contribution to the field of study. Entry to a doctorate course often requires completion of a master's degree course. Note that the doctorate course is not available in all departments at the University. (See also Award course, PhD.)

Domestic Student
A student who is not an international student. (See also Local student.)

Double degree
A double degree is a program where students are permitted by participating faculties (and/or by specific resolutions within a single award) to transfer between courses in order to complete two awards.

Downgrade
Where a student enrolled in a PhD reverts to a master's by research, either on the recommendation of the University on the basis that the research they are undertaking is not at an appropriate level for a PhD; or at the student's own request, for personal or academic reasons.

E
Equivalent full-time student unit (EFTSU)
The equivalent full-time student unit (EFTSU) is a measure of student load based on the workload for a student undertaking a full year of study in a particular course. A student is then recorded as having generated one EFTSU. (See also Load, Stage.)

Equivalent full-time student load (EFTSL)
The equivalent full-time student load (EFTSL) for a year. It is a measure, in respect of a course of study, of the study load for a year of a student undertaking that course of study on a full-time basis.

Embedded courses
Award courses in the graduate certificate, graduate diploma and master's degree by coursework sequence which allow unit of study credit points to count in more than one of the awards, e.g. the Graduate Certificate in Information Technology, Graduate Diploma in Information Technology and Master of Information Technology.

Enrolment
A student enrols in a course by registering with the supervising faculty in the units of study to be taken in the coming year, semester or session.

Commencing
An enrolment is classified as commencing if a student has enrolled in a particular degree or diploma for the first time.

Continuing
Students already in a course at the University re-enrol each year or semester. Most continuing students are required to pre-enrol. (See also Pre-enrolment.)

Enrolment list
A list of all currently enrolled students in a particular unit of study. (See also Unit of study.)

Enrolment status
(See Course enrolment status.)
Enrolment Variation
Students may vary their enrolment at the beginning of each semester. Each faculty determines its deadlines for variations, but student-contribution liability depends on the Commonwealth census date. (See also Commonwealth Supported Place.)

Examination
A set of questions or exercises evaluating on a given subject given by a department or faculty. (See also Examination period, Assessment.)

Examination period
The time set each semester for the conduct of formal examinations.

Examiner (Coursework)
The person assessing either the written/oral examination, coursework assignments, presentations, etc of a student or group of students.

Exchange student
Either a student of the University of Sydney who is participating in a formally agreed program involving study at an overseas university or an overseas student who is studying here on the same basis. The International Office provides administrative support for some exchanges.

Exclusion
A faculty may ask a student whose academic progress is considered to be unsatisfactory to 'show good cause' why the student should be allowed to re-enrol. If the faculty deems the student's explanation unsatisfactory, or if the student does not provide an explanation, the student may be excluded either from a unit of study or from a course or faculty. An excluded student may apply to the faculty for permission to re-enrol. Normally, at least two years must have elapsed before such an application would be considered.

University policy relating to exclusion is set out in the University Calendar. (See also Progression, Senate appeals.)

Exemption
A decision made at a sub-unit of study level to allow a student to complete a unit of study without also completing all the prescribed components of coursework and/or assessment. (See also Credit, Waiver.)

Expulsion
The ultimate penalty of disciplinary action is to expel the student from the University. The effect of expulsion is:

- the student is not allowed to be admitted or to re-enrol in any course at the University;
- the student does not receive their results;
- the student is not allowed to graduate; and
- the student does not receive a transcript or testamur.

Extended semester
A distance-learning student may be allowed more time to complete a module or program if circumstances beyond the student's control, e.g. drought, flood or illness, affect the student's ability to complete the module or program in the specified time. (See also Distance education.)

External
(See Attendance mode, Distance education.)

External transcript
A certified statement of a student's academic record printed on official University security paper. It includes the student's name, any credit granted, all courses the student was enrolled in and the final course result and all units of study attempted within each course together with the result. It also acknowledges prizes the student has received. Marks can be included or omitted, as required.

(See also Academic transcript, Internal transcript.)

F
Faculty
A formal part of the University's academic governance structure, consisting mainly of academic staff members and headed by a dean, which is responsible for all matters concerning the award courses that it supervises. Usually, a faculty office administers the faculty and student or staff inquiries related to its courses. The University Calendar sets out the constitution of each of the University's faculties. (See also Board of Studies, Supervising faculty.)

Faculty handbook
The annual University publication for each faculty which provides detailed information about the faculty, its courses and resolutions.

FEE-HELP
An eligible student in a postgraduate course or in a bridging study course (for overseas-trained professionals) can apply for assistance (in the form of a loan) in paying all or some of their tuition fees.

Fee-paying students
Students who pay tuition fees to the University and are not liable for student contributions to a Commonwealth Supported Place. The Commonwealth does not contribute towards the cost of the education of fee-paying students. Annual fees vary between the faculties. Students pay a per semester fee.

Fellows of Senate
Members of the governing body of the University who are either elected, appointed or ex-officio.

Flexible learning
(See Delivery mode, Distance education.)

Flexible start date
Full fee-paying distance students are not restricted to the same enrolment time frames as campus-based or Commonwealth-supported students.

Flexible Student Information System (FlexSIS)
The computer-based Flexible Student Information System at the University of Sydney.

FlexSIS holds details of courses and units of study being offered by the University and the complete academic records of all students enrolled at the University.

Formative assessment
(See also Assessment.)

Full-time student
(See Attendance pattern, EFTSU.)

G
Grade
The outcome for a unit of study linked with a mark range. For example, a mark in the range 85–100 attracts the grade 'high distinction' ('HD'). (See also Mark.)

Graduand
A student who has completed all the requirements for an award course but has not yet graduated. (See also Graduation, Potential graduand.)

Graduate
A person who holds an award from a recognised tertiary institution. (See also Graduand, Graduation.)

Graduate Certificate
(See Award course.)
Graduate Diploma
(See Award course.)

Graduate entry degree
A bachelor’s, or undergraduate degree, that requires another undergraduate degree as a prerequisite of entry. Examples of graduate entry degrees at the University of Sydney include: the Medical Program; Graduate Law and the Bachelor of Dentistry.

Graduation
The formal conferring of awards either at a ceremony or in absentia. (See also In absentia, Potential graduand.)

Graduation ceremony
A ceremony where the Chancellor confers awards upon graduands.

Group of Eight (G08)
The Group of Eight represents Australia’s major research intensive universities and membership comprises the vice-chancellors (presidents) of: The Australian National University, Monash University, The University of Adelaide, The University of Melbourne, The University of New South Wales, The University of Queensland, The University of Sydney and The University of Western Australia. It works to ensure a consistent and sustainable policy environment which maximises the wide-ranging economic, social and cultural benefits to the Australian community of higher education and which ensures Australian universities are recognised as among the best in the world.

Group work
Means a formally established project to be conducted by a number of students in common, resulting in a single piece of assessment or a number of associated pieces of assessment. (See also Legitimate cooperation.)

H
Handbook
(See Faculty handbook.)

Head of department/Head of school (HOD/HOS)
The head of the academic unit which has responsibility for the relevant unit of study, or equivalent program leader.

Higher Education Contribution Scheme (HECS)
The Higher Education Contribution Scheme (HECS) was the previous Commonwealth Government student loan scheme. It ceased to operate on 1 January 2005 and was replaced by HECS-HELP (see below).

HECS-HELP
An eligible student in a Commonwealth Supported Place can apply for assistance in paying their student contribution. This may take the form of a HECS-HELP loan to pay all or some of the student contribution, or a HECS-HELP discount if all (or at least $500) of the student contribution is paid by the census date.

Honorary degrees
A degree honoris causa (translated from the Latin as ‘for the purpose of honouring’) is conferred on a person whom the University wishes to honour.

Honours
Some degrees may be completed ‘with Honours’. This may involve either the completion of a separate honours year or additional work in the later years of the course or meritorious achievement over all years of the course. Honours are awarded in a class (Class I, Class II – which may have two divisions or, Class III).

NSW Higher School Certificate (HSC)
The NSW Higher School Certificate (HSC), which is normally completed at the end of year 12 of secondary school. The UAI (Universities Admission Index) is a rank out of 100 that is computed from a student’s performance in the HSC.

In absentia
Latin for ‘in the absence of’. Awards are conferred in absentia when graduands do not, or cannot, attend the graduation ceremony scheduled for them. Those who have graduated in absentia may later request that they be presented to the Chancellor at a graduation ceremony. (See also Graduation.)

Instrumental supervisor/teacher
All students at the Sydney Conservatorium of Music have an instrumental teacher appointed. (See also Advisor, Associate supervisor, Research supervisor, Supervision.)

Internal mode
(See Attendance mode.)

Internal transcript
A record of a student’s academic record for the University’s own internal use. It includes the student’s name, student identifier (SID), address, all courses in which the student was enrolled and the final course result, and all units of study attempted within each course together with the unit of study result. (See also Academic transcript, External transcript.)

International student
Any student who is not an Australian or New Zealand citizen or a permanent resident of Australia is an international student. An international student is required to hold a visa that allows study in Australia and may be liable for international tuition fees.

Fee-paying
A private international student who is liable to pay tuition fees for their studies with the University.

Fee-paying – Outgoing exchange
An international fee-paying student undertaking short term study at a recognised overseas institution with which the University has a student exchange agreement. Exchange study counts towards the student’s University of Sydney award and students remain enrolled in their University of Sydney course during the period of exchange.

International – cross-institutional
An international fee paying student undertaking non-award study at the University on a cross-institutional basis. They are liable to pay fees for the study they undertake at the University, but there is no compliance reporting requirement, which rests with their ‘home’ institution.

International – Sponsored
A private international student who is fully sponsored for his/her tuition; his/her sponsorship may also cover Overseas Health Cover and Compulsory Subscriptions.

Offshore studies
International offshore students undertake their program of study at one of the University’s offshore campuses and hence do not enter Australia; therefore they do not require a visa. They are distinct from international students who are on outbound exchange programs as they never enter Australia during their program of study.

Short course
An international fee-paying student undertaking a short course with the University of Sydney comprising such programs as international development programs, executive training or study visits. The study undertaken by these students is non-award and generally a student visa is not required.

Internal mode
(See Attendance mode.)

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Glossary

Sponsored award
An international student sponsored by the Australian government, undertaking a program of study at the University. Currently Australian Development Scholarships holders, funded by AusAID, are the only students in this category. These students are fully sponsored for their tuition and other costs such as travel and health cover, and are paid a stipend.

Study Abroad
An international student who is undertaking short-term study at the University under the Study Abroad scheme. Study Abroad students must have completed at least one year of study towards a degree at a recognised institution in their home country and are continuing towards the degree of their home institution.
(See also Local student, Student type.)

L

Learning Entitlement
Each student has a seven year full-time period during which they can remain Commonwealth supported. This seven year period is called their 'learning entitlement'.

Leave
(See Course leave.)

Legitimate cooperation
Any constructive educational and intellectual practice that aims to facilitate optimal learning outcomes through interaction between students.
(See also Group work.)

Life membership
Life membership is no longer offered by the University of Sydney Union (USU). However, existing Life Members continue to enjoy the right to vote in USU elections and at USU General Meetings. Like all members, Life Members are encouraged to stand for election to the USU Board. Similarly, Life Members, once they have paid the appropriate annual fees, are able to enjoy the benefits of the Access Benefits program.

Load
The sum of the weights of all the units of study in which a student is enrolled. The weight is determined by the proportion of a full year's work represented by the unit of study in the degree or diploma for which the student is a candidate. Student load is measured in terms of Equivalent full-time student units (EFTSU).
(See also Equivalent full-time student units (EFTSU).)

Local Student
Either an Australian or New Zealand citizen or Australian permanent resident. New Zealand citizens are required to pay their Higher Education Contribution Scheme (HECS) fees upfront.
(See also Domestic student, International student.)

M

Major
A field of study, chosen by a student, to represent their principal interest. This would consist of specified units of study from later stages of the award course. Students select and transfer between majors by virtue of their selection of units of study. One or more majors may be awarded upon the graduand's assessment of study.
(See also Award course, Minor, Stream.)

Major timetable clash
The term used when a student attempts to enrol in units of study which have so much overlap in the teaching times that it has been decided that students must not enrol in the units simultaneously.

Mark
An integer (rounded if necessary) from 0 to 100 indicating a student's performance in a unit of study.

(See also Grade.)

Master's degree
A postgraduate award. Master's degree courses may be offered by coursework, research only or a combination of coursework and research. Entry to the course often requires completion of an honours year at an undergraduate level.
(See also Award course.)

Method of candidature
A course is either a research course or a coursework course and so the methods of candidature are 'research' and 'coursework'.
(See also Course – Coursework, Course – Research.)

Mid-Year intake
Admission to degree programs for Semester Two.

Minor
Studies undertaken to support a Major. Requiring a smaller number of credit points than a major students select and transfer between minors (and majors) by virtue of their selection of units of study. One or more minors may be awarded upon the graduand's assessment of study.
(See also Award course, Major, Stream.)

Mixed mode
(See Attendance mode.)

MPhil
The Master of Philosophy (MPhil) is a master's by research degree offered by some (but not all) of the University's faculties.
(See also Award course, Master's degree.)

Mutually exclusive units of study
(See Prohibited combinations of units of study.)

MyUni
The University of Sydney's student portal system. It provides students with access to information about the University and its courses, including access to email, library services, student support services, student self-administration and e-learning software such as Blackboard and WebCT.

N

Non-award course
(See Course.)

Non-standard session
A teaching session other than the standard February and August sessions – e.g. Sydney Summer School or Winter School, in which units of study are delivered and assessed in an intensive mode during January or July respectively.
(See also Semester, Session.)

O

Orientation Week
Orientation or 'O Week', takes place in the week before lectures begin in Semester One. During O Week, students can join various clubs, societies and organisations, register for courses with departments and take part in activities provided by the University of Sydney Union.

Part-time student
(See also Attendance mode, Attendance pattern, Equivalent full-time student units (EFTSU).)

Permanent home address
The address used for all official University correspondence with a student, both inside and outside of semester time (e.g. during semester breaks), unless the student provides a different overridden by semester address for use during the semester.
Glossary

(See also Semester address.)

**PhD**
The Doctor of Philosophy (PhD) and other doctorate awards are the highest awards available at the University. A PhD course is normally purely research-based; the candidate submits a thesis that is an original contribution to the field of study.

(See also Award course, Doctorate.)

**Plagiarism**
Presenting another person’s ideas, findings or work as one’s own by copying or reproducing them without the acknowledgement of the source.

(See also Academic dishonesty.)

**Policy Online**
The website which provides access to the University’s current policies, procedures and guidelines.

**Postgraduate**
A term used to describe a course leading to an award such as graduate diploma, a master’s degree or PhD which usually requires prior completion of a relevant undergraduate degree (or diploma) course. A 'postgraduate' is a student enrolled in such a course.

(See also Course – Coursework, Course – Research.)

**Postgraduate Education Loans Scheme (PELS)**
An interest-free loans facility for eligible students who are enrolled in fee-paying, postgraduate non-research courses. It is similar to the deferred payment arrangements available under the Higher Education Contribution Scheme (HECS). This scheme was replaced by the FEE-HELP scheme on 1 January 2005.

(See also FEE-HELP Loan.)

**Potential graduand**
A student who has been identified as being eligible to graduate on the satisfactory completion of their current studies.

(See also Graduand, Graduation.)

**Pre-enrolment**
Pre-enrolment – also known as provisional re-enrolment – takes place in October, when students indicate their choice of unit of study enrolment for the following year. After results are approved, pre-enrolment students are regarded as enrolled in those units of study for which they are qualified. Their status is 'enrolled' and remains so provided they pay any money owing and comply with other requirements by the due date. Students who do not successfully pre-enrol in their units of study for the next regular session are required to attend the University on set dates during the January/February enrolment period.

(See also Enrolment.)

**Prerequisite**
A unit of study that is required to be successfully completed before another unit of study can be attempted. Prerequisites can be mandatory (compulsory) or advisory.

(See also Assumed knowledge, Corequisite, Waiver, Qualifier.)

**Prizes**
Awarded in recognition of outstanding performance, academic achievement or service to the community or University.

**Probationary candidature**
A student who is enrolled in a postgraduate course on probation for a period of time up to one year. The head of department/school is required to consider the candidate’s progress during the period of probation and make a recommendation for normal candidature or otherwise to the faculty.

**Professional practice**
Students undertake placement in a professional practice as a part of their course requirements. May require University approved supervision. Professional placements are located in a wide range of professional practices environments, and may not require additional criteria to be fulfilled.

**Progression**
Satisfactory progression is satisfying all course and faculty rules (normally assessed on an annual basis) to enable the completion of the chosen award within the (maximum) completion time allowed.

(See also Exclusion.)

**Prohibited combinations of units of study**
When two or more units of study contain a sufficient overlap of content, enrolment in any one such unit prohibits enrolment in any other identified unit.

(See also unit of study.)

**Provisional re-enrolment**
(See Pre-enrolment.)

**Q**

**Qualification**
An academic attainment recognised by the University.

**Qualifier**
A mandatory (compulsory) prerequisite unit of study which must have a grade of pass or better.

(See also Assumed knowledge, Corequisite, Prerequisite, Waiver.)

**R**

**Recycling**
The submission for assessment of one's own work, or of work which substantially the same, which has previously been counted towards the satisfactory completion of another unit of study, and credited towards a university degree, and where the examiner has not been informed that the student has already received credit for that work.

**Registration**
In addition to enrolling with the faculty in units of study, students must register with the department responsible for teaching each unit. This is normally done during Orientation Week. Note that unlike enrolment, registration is not a formal record of units attempted by the student.

**Research course**
(See Course – Research.)

**Research supervisor**
A supervisor is appointed to each student undertaking a research postgraduate degree. The supervisor will be a full-time member of the academic staff or a person external to the University recognised for their association with the clinical teaching or the research work of the University. A research supervisor is commonly referred to as a supervisor.

(See also Advisor, Associate supervisor, Instrumental supervisor/teacher, Supervision.)

**Result processing**
Refers to the processing of assessment results for units of study. For each unit of study, departments/schools tabulate results for all assessment activities and assign preliminary results.

(See also Assessment, Formative assessment, Examination period, Summative assessment.)

**Result processing schedule**
The result processing schedule will be determined for each academic cycle. All schools and faculties are expected to comply with this schedule.

(See also Assessment, Examination period, Result processing.)

**Result**
The official statement of a student’s performance in each unit of study attempted as recorded on the academic transcript, usually expressed as a mark and grade.

(See also Grade, Mark.)
Research Training Scheme (RTS)
The RTS provides Commonwealth-funded higher degree by research (HDR) students with an ‘entitlement’ to a HECS exemption for the duration of an accredited HDR course, up to a maximum period of four years full-time equivalent study for a doctorate by research and two years full-time equivalent study for a master’s by research.

S
Scholarships
Financial or other form of support made available to enable students to further their studies. (See also Bursaries.)

School
A school or academic unit shall encourage and facilitate teaching, scholarship and research and coordinate the teaching and examining duties of members of staff in the subjects or courses of study with which it is concerned.

Semester
A half-yearly teaching session, the dates for which are determined by the Academic Board. Normally all undergraduate sessions will conform to the semesters approved by the Academic Board. Any offering of an undergraduate unit not conforming to the semester dates (non-standard session) must be given special permission by the Academic Board. (See also Session, Non-standard session.)

Semester address
The address to which all official University correspondence is sent during semester time, if it is different to the permanent address.

Senate
The governing body of the University. (See the University Calendar for more details of its charter and powers.)

Session
Any period of time during which a unit of study is taught. A session differs from a semester in that it need not be a six-month teaching period, but it cannot be longer than six months. Each session maps to either Semester One or Two for DEST reporting purposes. Session offerings are approved by the relevant dean, taking into account all the necessary resources, including teaching space and staffing. The Academic Board must approve variation to the normal session pattern. (See also Semester, Non-standard teaching period.)

Session address
(See Semester address.)

Short course
A fee paying student undertaking a short course with the University of Sydney comprising professional development, executive training etc. The study undertaken by these students is a non-award course.

Show cause
(See Progression, Exclusion.)

Special consideration
Candidates who suffer serious illness or misadventure which may affect performance in any assessment, may request that they be given special consideration in relation to the determination of their results.

Special Studies Program (SSP)
A period of release from normal duties to allow academic staff to undertake a planned program of academic activity and development.

Sponsorship
Financial support of a student by a company or government body.

Stage
A normal full-time course of study taken in a year. (See also Course rules, EFTSU, Progression.)

Student
Student means a person enrolled as a candidate for an award course or unit of study.

Student Appeals Body
Any student may appeal to the Student Appeals Body against an academic decision on the ground that due academic process has not been observed by the relevant Faculty in relation to the academic decision. (See also Appeals, University of Sydney (Student Appeals against Academic Decisions) Rule 2006.)

Student Disciplinary Appeals Committee
Any student may appeal to the Student Disciplinary Appeals Committee against a misconduct determination by the Vice-Chancellor or a Student Proctorial Board. (See also Appeals.)

Student identifier (SID)
A nine-digit number which uniquely identifies a student at the University.

Student ID Card
All students who enrol are issued with an identification card. The card includes the student’s name, SID, the course code, a library borrower’s bar code and a passport-style photo. The card identifies the student as eligible to attend classes and must be displayed at formal examinations. It must be presented to secure student concessions and to borrow books from all sections of the University Library.

Student progress rate (SPR)
A calculation which measures the rate at which load undertaken is passed annually in each award program.

Student type
Student type identifies whether a student is local or international and the type of study the student is undertaking. (See also International student, Domestic student, Exchange student.)

Study Abroad program
A scheme administered by the International Office which allows international students who are not part of an exchange program to take units of study at the University of Sydney, but not towards an award program. In most cases the units of study taken here are credited towards an award at their home institution. (See also Exchange student.)

Subject area
A unit of study may be associated with one or more subject areas. The subject area can be used to define prerequisite and course rules, e.g. the unit of study ‘History of Momoyama and Edo Art’ may count towards the requirements for the subject areas ‘Art History and Theory’ and ‘Asian Studies’.

Summative assessment
(See Assessment.)

Summer School
(See Sydney Summer School.)

Supervising faculty
The faculty that has the responsibility for managing the academic administration of a particular course, i.e. the interpretation and administration of course rules, approving students’ enrolments and
variations to enrolments. Normally the supervising faculty is the faculty offering the course.

However, in the case of combined courses, one of the two faculties involved will usually be designated the supervising faculty. Further, in the case where one course is jointly offered by two or more faculties (e.g. the Liberal Studies course), a joint committee may make academic decisions about candidature and the student may be assigned a supervising faculty for administration.

Supervision
Refers to a one-to-one relationship between a student and a nominated member of the academic staff or a person specifically appointed to the role.
(See also Advisor, Associate supervisor, Instrumental supervisor/teacher, Research supervisor.)

Suppression of results
Results for a particular student can be suppressed by the University when the student has an outstanding debt to the University; or the student is facing disciplinary action. A student may also request a suppression for personal reasons.

Suspension
(See also Course leave.)

Sydney Summer School
A program of accelerated, intensive study running for approximately six weeks during January and February each year. Both undergraduate and postgraduate units are offered. Summer School provides an opportunity for students at Sydney and other universities to catch up on needed units of study, to accelerate completion of a course or to undertake a unit that is outside their award course.

All units attract full fees and enrolled students are also liable for compulsory subscriptions. Some fee-waiver scholarships are available.

Sydney Winter School
An intensive session offered by the University in July during the mid-year break.

T
Teaching department
(See School.)

Teaching end date
Official finish date of formal timetabled classes.

Teaching start date
Official commencement date of formal timetabled classes.

Terminated
Term used when a student's candidature has been officially closed because they are not able to complete the Course requirements.
(See also Candidature.)

Testamur
A certificate of award provided to a graduand, usually at a graduation ceremony. The Award conferred will be displayed along with other appropriate detail.

Thesis
A major work that is the product of an extended period of supervised independent research.
(See also Course – Research.)

Timetable
The schedule of lectures, tutorials, laboratories and other academic activities that a student must attend.

Transcript
(See Academic transcript.)

Transfer
(See Course transfer.)

Tuition fees
Tuition fees may be charged to students in designated tuition-fee-paying courses. Students who pay fees are not liable for HECS.

U
Universities Admissions Centre (UAC)
The UAC receives and processes applications for admission to undergraduate courses at recognised universities in NSW and the ACT. Most commencing, local undergraduate students at the University apply through the UAC.

Universities Admission Index (UAI)
A measure of overall academic achievement in the HSC that assists universities in ranking applicants for university selection. The UAI is based on the aggregate of scaled marks in ten units of the HSC, and is a number between 0.00 and 100.00 with increments of 0.05.

Under examination
Indicates that a research student has submitted their written work (thesis) for assessment, and is awaiting the finalisation of the examiners' outcome and recommendation.

Undergraduate
A term used to describe both a course leading to a diploma or bachelor's degree and a student enrolled in such a course.

Unit of study
Unit of study or unit means a stand-alone component of an award course. Each unit of study is the responsibility of a department.
(See also Prohibited combinations of unit of study.)

Unit of study enrolment status
The enrolment status indicates whether the student is still actively attending the unit of study (i.e. currently enrolled) or is no longer enrolled.
(See also Discontinuation or Cancellation.)

Unit of study level
Units of study are divided into Junior, Intermediate, Senior, Honours, Year 5, and Year 6. Most majors consist of 32 Senior credit points in a subject area (either 3000 level units of study or a mix of 2000 and 3000 level units of study).

University
Unless otherwise indicated, University in this document refers to the University of Sydney.

University Calendar
The annual University publication, also available online, which provides general and historical information about the University of Sydney, the statutes and regulations under which it operates and the Senate resolutions relating to constitutions and courses in each faculty.

University Medal
A faculty may recommend the award of a University Medal to a student qualified for the award of an undergraduate honours degree (or some master's degrees), whose academic performance is judged to be outstanding.

University Strategic Directions
The University of Sydney Strategic Plan 2006-2010

Upgrade
Where a student enrolled in a master's by research course is undertaking research at such a standard that either the University recommends that the student upgrade their degree to a PhD, or the
student seeks to upgrade to a PhD and this is supported by the University.

**V**

Variation of enrolment
(See Enrolment variation.)

Vice-Chancellor and Principal
The chief executive officer of the University, responsible for its leadership and management. The Vice-Chancellor and Principal is head of both academic and administrative divisions.

**W**

Waiver
In a prescribed course, a faculty may waive the prerequisite or corequisite requirement for a unit of study or the course rules for a particular student. Unlike credit, waivers do not involve a reduction in the number of credit points required for a course.
(See also Credit, Exemption.)

Winter School
(See Sydney Winter School.)

Weighted average mark (WAM)
This mark uses the unit of study credit point value in conjunction with an agreed ‘weight’. The formula for this calculation is:

\[
WAM = \sum \frac{(W_c \times M_c)}{\sum W_c}
\]

Where \(W_c\) is the weighted credit point value – i.e. the product of the credit point value and the level of weighting of 1, 2, 3, or 4 for a first, second, third or fourth year unit of study respectively; and where \(M_c\) is the greater of 45 or the mark out of 100 for the unit of study.

The mark is the actual mark obtained by the student for the unit of study, or in the case of a failing grade with no mark – 0. Pass/fail assessed subjects and credit transfer subjects (from another institution) are excluded from these calculations; however, the marks from all attempts at a unit of study are included. (Effective from January 1, 2004.)

In addition, faculties may adopt other average mark formulae for specific progression or entry requirements. If such a formula is not specified in the faculty resolutions, the formula outlined above is used. (See also WAM weight.)

WAM weight
A weight assigned to each unit of study to assist in the calculation of WAMs.

**Y**

Year of first enrolment (YFE)
The year in which a student first enrolls at the University.
(See also Commencement date.)

Youth Allowance
Youth Allowance is payable to a full-time student or trainee aged 16–24 years of age who is enrolled at an approved institution such as a school, college, TAFE or university, and undertaking at least 15 hours a week face-to-face contact.
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