

The University of Sydney

Faculty of Pharmacy Handbook 2006

University dates

University semester and vacation dates 2006

| Summer School Lectures begin | Tuesday 3 January | Semester One u Last day to add a |
|--------------------------------------|---|--|
| Lectures end | Friday 3 March | Last day for with |
| Semester One Lectures begin | Monday 6 March | Last day to disco Last day to disco Semester Two u |
| AVCC common week/non-teaching Easter | Friday 14 April to | Last day to add a |
| period | Friday 21 April | Last day for with |
| Last day of lectures | Friday 9 June | Last day to disco |
| Study vacation: one week beginning | Monday 12 June to Friday 16 June | Last day to disco |
| Examination period | Monday 19 June to | Last day to withd |
| | Saturday 1 July | of study |
| Semester ends | Saturday 1 July | |
| AVCC common week/non-teaching period | Monday 3 July to Friday 7 July | |
| Semester Two | | |
| Lectures begin | Monday 24 July | |
| AVCC common week/non-teaching period | Monday 25 September to Friday 29 September | |
| Last day of lectures | Friday 27 October | |
| Study vacation | Monday 30 October to | |
| - | Friday 3 November | |
| Examination period | Monday 6 November to | |
| * | Saturday 18 November | |
| | ~ · · · · · · · | |

Saturday 18 November

Semester ends

These dates (and any updates) are also available at: www.usyd. edu. au/fstudent/undergrad/apply/scm/dates. shtml

Last dates for withdrawal or discontinuation 2006

units of study a unit hdrawal ontinue without failure (DNF) ontinue (Discontinued - Fail) units of study a unit

hdrawal ontinue without failure (DNF) ontinue (Discontinued - Fail) draw from a non standard unit

Friday 17 March Friday 31 March Friday 28 April Friday 9 June Friday 4 August

Thursday 31 August Friday 8 September Friday 27 October By the census date of the non standard unit of study which must not be earlier than 20 per cent of the way through the period of time during which the unit is undertaken.

Details are in the session calendar on the timetabling website http://web.timetable.us vd.edu.au.

The University of Sydney NSW 2006

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Faculty of Pharmacy

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This book (and other handbooks) can also be found at: www.usyd.edu.au/handbooks

The University of Sydney Faculty of Pharmacy Handbook 2006.

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The information in this handbook is subject to approval and/or change by the appropriate faculty of the University. Students should always check the accuracy of the information with faculty staff.

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Faculty of Pharmacy Handbook

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit "<u>http://www.usyd.edu.au/handbooks/"</u>.

How to use this Handbook

There are three 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. BIOL 1001). Details of each unit offered in the current academic year are provided, e.g. course content, credit points, semester offered and assessment.

Frequently asked questions

How do I qualify for the pass degree of Bachelor of Pharmacy or Bachelor of Pharmacy (Rural)?

You must complete 192 credit points, as set in the course requirements, normally over four years.

Should I read the Resolutions?

Definitely. The Resolutions, which control undergraduate and postgraduate degrees, are included in Chapters 3 and 5 respectively. The information in these chapters has precedence over all other information in this handbook.

How do I qualify for the Bachelor of Pharmacy or Bachelor of Pharmacy (Rural) with Honours?

You complete the requirements for the pass degree, together with advanced study in the fourth year in a single Pharmacy discipline area.

What is meant by "creditpoints"?

Credit points are allocated to each unit of study. A unit of study is a semester-length course in a particular subject area, requiring between four and twelve hours per week of class attendance.

Is a "unit of study" the same as a "course" or "subject"? In handbooks from previous years the word "unit" seems to have meant the same as "creditpoint"?

The University of Sydney has adopted the terminology recommended by the Commonwealth Department of Education, Science and Training (DEST). You may find that the academic staff sometimes use the old terms.

/ have studied at a tertiary institution already. Can previous studies be credited?

In general previous university studies can be credited, provided that they are recent and similar in terms of topics covered, contact hours and level. You must complete a credit application form, which must be submitted to the Faculty of Pharmacy Student Services Centre together with original academic transcripts and descriptions of the units that you wish to have credited.

Is there a time limit?

You must complete all the degree requirements within ten years from the date of admission to candidature (e.g. if you start in 2005, you must have completed by the end of 2014).

Can I interrupt my studies to travel?

You can suspend for a year (usually this is for travel or in order to earn some money by full-time work). If necessary, you can apply for a further year of suspension, but after this the candidature usually is considered to have lapsed.

If I do well, can I get into another degree program with a higher entry mark?

Yes, but this will be competitive. It is realistic to assume you will be completing the degree in which you first enrol.

What are my chances of success?

Excellent. You have received an offer because the University believes you are qualified to complete the degree. Problems could arise if you are unable or unwilling to give your studies some priority over other interests, commitments and worries. Even if you have these problems, there are many ways in which you can find help and support within the University (details can be found on the University website). If your first language is not English, or if you have specific learning problems, it is a good idea to consult the Learning Assistance Centre.

Can I do any units through Summer School?

Some units of study may be undertaken through the Summer School in January and February. Please consult the Sydney Summer School website <u>http://www.summer.usyd.edu.au</u> (<u>http://www.summer.usyd.edu.au/</u>) for more information.

The Faculty has increased its undergraduate intake significantly with approximately 260 new first year students in 2005, the Faculty has one of the largest undergraduate cohorts of any Australian university.

Message from the Acting Dean

Welcome to the Faculty of Pharmacy at the University of Sydney. Pharmacy at the University of Sydney has an established tradition of teaching, research and scholarship in the pharmaceutical sciences. The University's involvement with the education of pharmacists began in 1899 and in 1960, with the introduction of the Bachelor of Pharmacy degree course, the University became the first in Australia to offer an undergraduate degree program in Pharmacy.



Today, 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 interact with and be taught by internationally renowned academics and will have access to teaching laboratories that are leading world best practice. Most importantly, it is the Faculty's innovative teaching programs that 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 introduction of the Bachelor of Pharmacy (Rural) degree, now offered at the Camperdown campus. This new degree program, which commenced in 2003, is similar in content to the Bachelor of Pharmacy but gives particular emphasis to an understanding of the differences between rural and non-rural health care systems and pharmacy practice models. Given the current shortage of rural pharmacists, this initiative has the full support of the pharmacy profession. From 2006 this degree will be offered from the University's Camperdown campus.

Another of the Faculty's innovative programs is the inclusion of a Talented Students Program, offered to first year students with superior academic ability. This program recognises the exceptional quality of our undergraduate students and enables students to fulfill their individual academic potential. At the postgraduate level, the Faculty now offers a Master of Pharmacy program which leads to registration as a pharmacist. This new program, first offered in 2004, has a strong clinical and practical focus and provides an alternative mode of entry to the pharmacy profession for applicants with a prior degree. This initiative will assist in alleviating the existing and projected shortage of Pharmacists.

The Faculty's postgraduate research program reflects the strong research capability and focus of the Faculty's academic staff. There are currently over 65 postgraduate research students, often drawn from the Advanced (Honours) program offered at the undergraduate level. Students with research potential and interest are encouraged to consider taking the Advanced program in the bachelor degree programs.

The Faculty regularly reviews and refines the curriculum offered in both its undergraduate and postgraduate programs, and the review processes often include a range of opportunities for student input. As Acting Dean, I encourage you to actively participate in Faculty initiatives and academic and other activities, particularly through our award winning undergraduate students association, Sydney University Pharmacy Association (SUPA). Apart from providing students with access to a range of professional and social activities, elected SUPA representatives from each year interact with Faculty staff to provide informal constructive feedback as well as formal input into the review processes of the Faculty. Postgraduate student representatives also have the same opportunities for input to staff with respect to the Faculty's postgraduate programs.

A Pharmacy degree from the University of Sydney will offer you many and varied career choices including the ability to serve the Australian community and improve the quality of health care and medication usage. You will 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 looks forward to a productive year of working together.

Iqbal Ramzan

A brief history of the Faculty of Pharmacy

Pharmacy at The University of Sydney has an established tradition of research and scholarship in 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 approximately 1400 prospective students listing Pharmacy as their first preference for 2005. The Bachelor of Pharmacy (Rural), now at the Camperdown campus, will be offered again to new students from 2006. Of those expressing a preference for pharmacy, almost two-thirds were recent school leavers. Of the non-recent school leavers, a significant number already held an undergraduate degree.

Similarly, with more than 160 postgraduate 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

The Sydney University Pharmacy Association (SUPA) is a society run by the students for the students. Established over 50 years ago, SUPA is one of the most active Sydney University societies. In 2004, SUPA won the prestigious Club/Society of the Year ahead of 180 other Sydney University societies - a huge honour that reflects what a great club we are.

SUPA aims to balance your challenging academic life with the exciting social life on offer at university. SUPA is bursting with opportunities with an awesome social calendar!

SUPA also coordinates pharmacy's involvement in the interfacuity sport program, a year long University-wide competition for men and women in a variety of sports. As well, SUPA plays an important role in student services by acting as a support group assisting members with any administrative or academic problems that may be encountered. Finally, we also offer members great discounts on pharmacy reference books and equipment such as spatulas and dispensing weights needed during third year - you can save the cost of your membership fee in just one purchase!

So make SUPA the first club you sign up for this year.

The SUPA committee consists of eight elected members who work closely together with two elected members from each year. Your SUPA Committee for 2005-06 is:

| President | Perlon Leung |
|---------------------------|-----------------|
| Vice President | Mina Fahmy |
| Treasurer | Ada Hon |
| Secretary | Dixie Nagarajah |
| Education Officer | William Tang |
| Events Coordinator | Christine Duong |
| Marketing Officer | Fady Zaky |
| Sports Coordinator | Mathew Wong |
| NAPSA National Councillor | Kieren Po |

Get to taste the full goodness of what SUPA has to offer for your pharmacy uni life (no matter how many years it takes) for a one-off membership fee!

Membership is \$50, or if you join during enrolment or O week, receive the special rate of \$45. For more information phone 02 9552 1299 or visit <u>http://www.pharm.usyd.edu.au/SUPA/</u> (http://www.pharm.usyd.edu.au/SUPA/)

So get involved! Join the other 700 pharmacy students who call SUPA home.

Perlon Leung

SUPA President 2005-06

Faculty of Pharmacy Handbook

1. About the Faculty

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit "http://www.usyd.edu.au/handbooks/"

General enquiries

Pharmacy 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 (http://www.pharm.usyd.edu.au)

Information and advice

Student Services Office

Room N346 in the Pharmacy Building A15 Open Monday to Friday, 9.00am to 5.00pm Phone: (02) 9351 2320 (mainline) Fax: (02) 9351 4391

Undergraduate enquiries: Phone: (02) 9036 9293 Email: ug@pharm.usyd.edu.au

Postgraduate enquiries: Phone: (02) 9036 9552 Email: pg@pharm.usyd.edu.au

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

Dean

Room S322 Phone: (02) 9351 2077 Fax: (02) 9351 6950

Faculty Manager

Room N346 Phone: (02) 9351 8583 Fax: (02) 9351 4391

Herbal Medicines Research and Education Centre RoomN411 Phone: (02) 9351 4435 Fax: (02) 9351 8638

Pharmacy Practice Foundation

Phone: (02) 9351 2668 Fax: (02) 9351 3980 Web: www.pharm.usyd.edu.au/ppf/ (http://www.pharm.usyd.edu.au/ppf/)

Staff

Dean's office

Acting Dean Associate Professor Iqbal Ramzan

Pro Dean Professor Basil Don Roufogalis

Associate Deans Dr Jane Hanrahan (Undergraduate) Dr Mary Collins (Postgraduate) Professor Michael Murray (Research) Professor Jo-anne Brien (Admissions and Administration) Dr Susan Taylor (Rural)

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

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Professor of Pharmacogenomics Michael Murray, BPharm PhD DSc

Associate Professors Hak-Kim Chan, BPharm NDMC Taipei PhD

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Administrative staff

Faculty Manager Sandra Harrison, B A (Hons)

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Manager, Technical Staff and Resources Barbara Higgins, BSc UNSW

Professional Officers Fred TK Wong, DipMedTech STC MSc, FACBS Bruce N Tattam, MSTIA

Senior Technical Officers Bill Rae Jiamin You, BSc Shanghai MPharmSc Technical Officers Katie Chatfield, BSC (Hons) Christopher J Hick, ADAS SydInstTech Michael Kennedy, BAppSc UTS Robert Koryzma Catherine H Mortimer, BSc DipEd ADAS SydInstTech Donna Mulry Janette Thant, BSC Myanmar

Assistants Jenny Bell Freda Kambosos JieLi

Attendant Jay O'Sullivan

WebCT Staff

Web Designers Marie-Claire Curie Sharon Kitching

As at 31 August 2005

Resolutions of the Senate

Degrees, diplomas and certificates in the Faculty of Pharmacy

- The degrees in the Faculty of Pharmacy shall be:
 (a) Bachelor of Pharmacy (BPharm)
 (b) Bachelor of Pharmacy (Rural) (BPharm(Rural))

 - (c) Master of Pharmacy (Research) (MPharm(Res))
 (d) Master of Pharmacy (Clinical) (MPharm(Clin))
 (e) Master of Pharmaceutical Sciences (MPharmSc)

 - (f) Master of Herbal Medicines (MHerbMed)
 - (g) Master of Pharmaceutical Industry (MPharmInd)
 - (h) Master of Pharmacy (MPharm)
 - (i) Doctor of Philosophy (PhD)
- 2. The diplomas and certificates in the Faculty of Pharmacy shall be:
 - (a) Graduate Diploma in Clinical Pharmacy (GradDipClinPharm) (b) Graduate Diploma in Pharmaceutical Sciences (GradDipPharm-Sc)

 - (c) Graduate Diploma in Hospital Pharmacy (GradDipHPharm) (d) Graduate Diploma in Herbal Medicines (GradDipHerbMed)
 - (e) Graduate Diploma in Pharmaceutical Industry (GradDipPharmlnd)
 - (f) Graduate Certificate in Clinical Pharmacy (GradCertClin-Pharm)
 - (g) Graduate Certificate in Herbal Medicines (GradCertHerbMed)
 - (h) Graduate Certificate in Pharmaceutical Industry (GradCert-Pharmlnd)

Constitution of the Faculty of Pharmacy

- 1. The Faculty of Pharmacy shall comprise the following persons: (a) the Professors, Readers, Associate Professors, Senior Lecturers, Lecturers and Associate Lecturers being full-time or fractional (50% full-time equivalent or greater), continuing or fixed term members of the academic staff in the Faculty of Pharmacy;
 - (b) the Dean or a nominee of the Dean of each of the Faculties of Health Sciences, Dentistry, Medicine, Nursing and Science;
 - (c) the Head or a nominee of the Head of each of the Departments or Schools teaching units of study in the courses offered by the Faculty;
 - (d) the Professors, Readers and Associate Professors, being fulltime or fractional (50% full-time equivalent or greater) continuing or fixed term members of the academic staff in the Department of Pharmacology; (e) such other persons, if any, being full-time or fractional (50%)
 - full-time equivalent or greater) research staff in the Faculty of Pharmacy holding appointments of Research Fellow and above;

- (f) not more than four students (two undergraduate, two postgraduate), elected in the manner prescribed by the Resolutions of Senate;
- (g) not more than three persons, being members of the general or technical staff of the Faculty of Pharmacy, who, in the opinion of the Faculty, have a close and appropriate association with its work of teaching and research, on the nomination of the Dean of the Faculty with the approval of the Faculty;
- (h) the President of the Pharmacy Practice Foundation;
- (i) the President of the Pharmacy Board of New South Wales;
 (j) the Chief Pharmacist of the NSW Department of Health (or nominee);
- (k) not more than five persons distinguished in pharmacy professional associations on the nomination of the Dean of the Faculty with the approval of the Faculty;
- not more than two persons distinguished in the pharmaceutical industry on the nomination of the Dean of the Faculty with approval of the Faculty;
- (m) persons associated with the Faculty upon whom the University has conferred the title of Clinical or Adjunct Professor, Clinical or Adjunct Associate Professor, Clinical or Adjunct Senior Lecturer, and Clinical or Adjunct Lecturer;
- (n) not more than three persons, being Associates, Clinical Associates, Clinical Supervisors, Research Associates, Professional Associates and Teaching Associates of the Faculty, on the nomination of the Dean of the Faculty with the approval of the Faculty, with not more than two members coming from any one discipline;
- (o) one representative of the Directors of Pharmacy of the Teaching Hospitals of the Faculty on the nomination of the Dean of the Faculty with the approval of Faculty;
- (p) the Chief Executive Officers of the teaching hospitals of the Faculty;
- (q) such other persons as may be appointed by the Faculty on the nomination of the Dean of the Faculty.
- 2. The members appointed under sections (a), (b), (c), (d), (e), (h), (i), (j), (m), (p) or (q) shall be members of the Faculty for so long as they retain the positions that led to their appointment as members of Faculty.
- 3. The members appointed under sections (f), (g), (l) and (o) shall be appointed at the first meeting of Faculty in first semester each year, or as soon as practicable thereafter, and shall hold office until the first meeting of Faculty in the first semester of the following year.
- 4. The members referred to in sections (k) and (n) shall be appointed for two years, or until their association with the Faculty of Pharmacy ceases, whichever is the sooner.

2. Undergraduate degree requirements

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit "<u>http://www.usyd.edu.au/handbooks/"</u> for the most current handbooks information.

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.

Restrictions (general)

- A candidate for a degree must satisfy the minimum eligibility requirements before commencing the degree units of study. Units of study taken before satisfying these requirements cannot normally be counted for degree purposes.
- 2. A candidate may not take a unit of study in any subject without having previously completed the qualifying unit(s) of study appropriate to that subject. Except with the permission of the Head of Department, he or she must also complete the prerequisites and corequisites as prescribed.
- 3. The only combinations of units of study available are those permitted by the timetable.

Time limits

Except with the permission of the Faculty, students must complete the requirements for award of their degree within ten calendar years of admission to candidature.

Suspension

All students must re-enrol each calendar year unless the Faculty has approved suspension of candidature. Candidature will lapse if a student has not obtained approval for suspension and does not reenrol. A student whose candidature has lapsed must be selected for admission again (usually by submitting an application to UAC) before they can re-enrol.

Except with the prior permission of the Faculty, a student shall not be granted a suspension of candidature in order to enrol in another course of tertiary study. Candidature will lapse if a student enrols in another course of tertiary study after having been granted a suspension of candidature.

Credit

Students who have previously completed studies which are considered by the Faculty to be equivalent to any unit of study listed in the Tables may be given credit for that unit of study providing that the unit of study was completed not more than nine years before admission to candidature in the Faculty.

Results

For all units of study in the Bachelor of Pharmacy and Bachelor of Pharmacy (Rural) degrees, the following mark ranges apply:

| Abrev. | Grade | Mark |
|--------|------------------------|----------------|
| HD | High Distinction | 85-100 |
| D | Distinction | 75-84 |
| CR | Credit | 65-74 |
| Р | Pass | 50-64 |
| R | Satisfied requirements | |
| PCON | Pass (Concessional)* | 46-49 |
| F | Fail | Below 46 or 50 |
| AF | Absent Fail | |

*For Pass (Concessional) a maximum of 18 credit points (first year units of study), 12 credit points (second year) and 6 credit points (third year) may be counted towards the degree.

Honours

The following Honours grades apply from 2000. A grade of Honours is determined by the WAM for years 1-4 and average mark in Advanced units of study.

| Grade | Minimum four year WAM | Minimum aver- age mark in Ad- vanced units |
|--|--------------------------|--|
| HIM-First class Honours and University Medal | 85 | 90 |
| HI- First class Honours | 75 | 85 |
| H21- Second class Honours, Division 1 | 70 | 80 |
| H22- Second class Honours, Division 2 | 65 | 75 |

Special consideration

This process takes precedence over any other mention of special consideration in this Handbook.

The Faculty of Pharmacy recognises that the performance of students may be adversely affected by illness or other misadventure, and makes provision for special consideration of such disabilities when examination results are considered. Faculty intends only to compensate for sub-standard performance in assessments, which do not reflect a student's true competence in a subject, and *such provisions must not act to the disadvantage of other students*.

Any student who believes that his/her performance has been or may be adversely affected by an occurrence of illness or misadventure may request Faculty to give special consideration to the circumstances. *Such a request must be made within one week* of the occurrence and must be accompanied by an appropriate medical certificate or other relevant documentary evidence.

Such certificates should state not only the nature of the illness or misadventure but also the opinion of the issuer as to the extent of disability involved.

Where several requests for special consideration have been received from one student, the Faculty may wish to obtain from the medical practitioner or other issuer of corroborating certificates more detail as to the precise extent of the disability. In cases where the Faculty believes that other students may be adversely affected by the giving of special consideration, it may require the applicant to obtain a professional opinion from another source.

Discontinuation and re-enrolment

Regulations about discontinuation and about restrictions imposed on re-enrolment are published in the University's *Calendar*. Attention is drawn in particular to Regulation Q which is specifically concerned with the Faculty of Pharmacy, and to those headed "Students in all Faculties, Colleges and Boards of Studies".

Bachelor of Pharmacy (BPharm)

Course code: PH001

Note: For students first enrolling in 1997 or 1998, the Resolutions governing their candidature for the first and second years of study are contained in the 1997 or 1998 *Faculty of Science Handbook*. The 1999 Resolutions will govern their candidature in the year 1999 and in subsequent years. The 2001 Resolutions will govern the candidature of students commencing in 2001.

Summary of requirements

The degree of Bachelor of Pharmacy degree is a full-time four year course. Progression towards the degree is by the accumulation of

credit points. The requirements for the degree are set out in the Senate Resolutions, which should be read by all intending candidates (see Chapter 3). 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.

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 the Commonwealth of Australia. This period must be served after the BPharm 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. (02) 9281 7736, fax (02) 9281 2924. Postal Address: Locked Bag 2, Haymarket, NSW 2000.

BPharm degree resolutions

See chapter 3.

Bachelor of Pharmacy (Rural)

Course code: PH002

The Bachelor of Pharmacy (Rural) has been specifically developed with the aim of allowing students to graduate with specialised knowledge which will assist them in pursuing research issues specific to a rural or remote setting, or in practising as a pharmacist after registration in rural or remote areas of Australia or internationally. The Bachelor of Pharmacy (Rural) degree does not limit graduates to careers in a rural area. Graduates of the BPharm (Rural) who gain registration with the Pharmacy Board of NSW retain graduate mobility between various pharmacy settings, rural and non-rural. The degree is not intended to provide an additional avenue of entry to those wishing to study in the Bachelor of Pharmacy degree. However, following normal procedure, students wishing to transfer from the Bachelor of Pharmacy (Rural) to the Bachelor of Pharmacy will need to apply via the normal UAC channels and will be subject to the same rules which apply to other non-recent school leavers seeking entry to the Bachelor of Pharmacy.

Graduates from the Bachelor of Pharmacy (Rural) need to complete a period of practical training before registration with the Pharmacy Board.

Summary of requirements

The degree of Bachelor of Pharmacy (Rural) is a full-time four-year course. Progression towards the degree is by the accumulation of credit points. The requirements for the degree are set out in the Senate Resolutions, which should be read by all intending candidates (see Chapter 3). The degree may be awarded at 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. Table 2 outlines the units of study which comprise the program of study for Bachelor of Pharmacy (Rural).

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 2.

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 units of study if any. Any corequisite units of study not previously completed must be taken concurrently (see Table 2).

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 (Rural). 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 the Commonwealth of Australia. This period must be served after the Bachelor of Pharmacy (Rural) 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. (02) 9281 7736, fax (02) 9281 2924. Postal Address: Locked Bag 2, Haymarket, NSW 2000.

Bachelor of Pharmacy (Rural) degree resolutions See Chapter 3.

Undergraduate Units of Study

| Unit of Study | | | CPA: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition Session | | | |
|---------------|-------------------------------|---|--|------------|--|--|
| Unit o | of Study | | | | | |
| First Year | | | | | | |
| BIOL 1001 | Concepts in Biology | 6 | A No previous knowledge required. Students are encouraged to take the Biology Bridging Course. Students who have completed HSC Biology are advised to enrol in BIOL1 101 Ecosystems to Genes rather than BIOL1001. NBIOL(1101or1901) NB: It is recommended that BIOL (1001 or 1101 or 1901) be taken before all Semester 2 Junior units of study in Biology. | | | |
| or | | | | | | |
| BIOL 1101 | Biology - Ecosystems to Genes | 6 | P HSC 2-unit Biology or equivalent. N BIOL (1001 or 1901) NB: It is recommended that BIOL (1001 or 1101 or 1901) be taken before all Semester 2 Junior units of study in Biology. | Semester 1 | | |
| CHEM 1611 | Chemistry A (Pharmacy) | 6 | A HSC Chemistry and Mathematics NB: Department permission required for enrolment. Students must have special permission from the Faculty of Pharmacy to enrol in this Unit of Study. | Semester 1 | | |

Table 1: Bachelor of Pharmacy Pass degree and Honours degree

| Unit of | Study | СР | A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition | Session |
|--------------|---|----|--|-----------------------|
| MATH 1606 | Calculus and Statistics for Pharmacy | 6 | A HSC Mathematics or equivalent. Students without this assumed knowledge are advised to attend a bridging course in February. | Semester 1 |
| PHAR 1615 | Foundations of Pharmacy | 6 | | Semester 1 |
| BIOL 1003 | Human Biology | 6 | A HSC 2-unit Biology N BIOL1903 or EDUH1016 | Semester 2, Summer |
| CHEM 1612 | Chemistry B (Pharmacy) | 6 | C CHEM 1611 Chemistry A (Pharmacy) NB: Department permission required for enrolment. Students must have special permission from the Faculty of Pharmacy to enrol in this Unit of Study. | Semester 2 |
| PHAR 1616 | Introductory Pharmaceutical Science | 6 | A HSC Chemistry C PHAR 1615, CHEM 1611 and CHEM 1612 | Semester 2 |
| PHAR 1617 | Social Pharmacy | 6 | C PHAR 1615 | Semester 2 |
| Secon | d Year | | | |
| BCHM 2613 | Biochemistry for Pharmacy | 6 | P CHEM 1611 and CHEM 1612 | Semester 1 |
| PHAR 2609 | Medicinal Chemistry 2A | 6 | PMATH1606 or (MATH1605 andSTAT1605); CHEM1611; CHEM1612; eitherPHAR1615 or (PHAR1613 and PHAR1614); PHAR1616 or PHAR1607 C BCHM 2613 or (BCHM 2611 and BCHM 2612) | Semester 1 |
| PHAR 2615 | Microbiology for Pharmacy | 6 | P BIOL (1001 or 1101 or 1901); either PHAR1615 or (PHAR1613 and PHAR1614); either PHAR1616 or PHAR1607 | Semester 1 |
| PSPC 2601 | Physiology and Pharmacology A (Phar- macy) | 6 | P CHEM 1611, CHEM 1612, BIOL (1001 or 1101 or 1901) and BIOL (1003 or 1903) C BCHM 2613 | Semester 1 |
| PHAR 2616 | Physical Pharmaceutics and Formulation A | 6 | P either MATH1606 or (MATH1605 and STAT1605); CHEM1611; CHEM1612; either PHAR1615 or (PHAR1613 and PHAR1614); either PHAR1616 or PHAR1607 C PHAR2615 | Semester 2 |
| PHAR 2617 | Pharmacy Practice 2 | 6 | P Either PHAR1615 or (PHAR1613 and PHAR1614); either PHAR1617 or PHAR1612 C PSPC 2601 or (PCOL 2603 and PHSI 2604) and PSPC 2602 or (PCOL 2604 and PHSI 2605) | Semester 2 |
| PHAR 2618 | Medicinal Chemistry 2B | 6 | C PSPC 2602 or (PCOL 2603 and PCOL 2604) and PHAR 2609 | Semester 2 |
| PSPC 2602 | Physiology and Pharmacology B (Phar- macy) | 6 | P CHEM 1611, CHEM 1612, BIOL (1001 or 1101 or 1901) and BIOL (1003 or 1903) C BCHM 2613 and PSPC 2601 | Semester 2 |
| Third | Year | | | |
| PCOL 3605 | Pharmacology 3 (Pharmacy) | 6 | P All first year units; BCHM2613 or (BCHM2611 & BCHM2612); PSPC2601 or (PCOL2603 and PHSI2604); PSPC2602 or (PCOL2604 and PHSI2605). | Semester 1 |
| PHAR 3609 | Medicinal Chemistry 3A | 6 | P A pass in all first year units of study; PHAR2609; PHAR2618 or PHAR2610 | Semester 1 |
| PHAR 3613 | Pharmacy Practice 3A | 6 | P All first year units of study; PSPC2601 or (PCOL2603 and PHSI2604); PSPC2602 or (PCOL2604 and PHSI2605); PHAR2617 or (PHAR2611 and PHAR2612) C PCOL3605 or (PCOL3603 and PCOL3604) | Semester 1 |
| PHAR 3630 | Pharmacokinetics and Pharmacogenetics | 6 | P All first year units of study; either PHAR2616 or (PHAR2613 and PHAR2614); either PSPC2601 or (PCOL2603 and PHSI2604); either PSPC2602 or (PCOL2604 and PHSI2605) C either PCOL3605 or (PCOL3603 and PCOL3604) | Semester 1 |
| PHAR 3602 | Dispensing | 6 | PA pass in all first year units of study; either PHAR2615 or (MICR2605 and PHAR2607); either PHAR2616 or (PHAR2613 and PHAR2614); either PHAR2617 or (PHAR2611 and PHAR2612) C PHAR 3631 | Semester 2 |
| PHAR 3610 | Medicinal Chemistry 3B | 6 | P All first year units of study C PCOL3605 or (PCOL3603 and PCOL3604); PHAR3609 | Semester 2 |
| PHAR 3615 | Pharmacy Practice 3B | 6 | P All first year units of study. C PHAR3613; PCOL3605 or (PCOL3603 and PCOL3604) | Semester 2 |
| PHAR 3631 | Physical Pharmaceutics and Formulation B | 6 | P All first year units of study; either PHAR2615 or (MICR2605 and PHAR2607); either PHAR2616 or (PHAR2613 and PHAR2614) C PHAR3630 | Semester 2 |
| Fourtl | h Year | | | |
| PHAR 4618 | Integrated Pharmacy Practice | 12 | PA pass in all second year units of study; PHAR3609; PHAR3610; either PHAR3630 or (PHAR3611 and PHAR3612); either PHAR3613 or PHAR3623; PHAR3614 or PHAR3615 or PHAR3624 or PHAR3627; either PCOL3605 or (PCOL3603 and PCOL3604) | Semester 1 |
| PHAR 4619 | Drug Development & New Drug Techno- logies | 6 | P A pass in all Second Year units of study; either PHAR3630 or (PHAR3611 and PHAR3612); either PHAR3631 or (PHAR3607, PHAR3608, PHAR2613 and PHAR2614); PHAR3609; PHAR 3610; either PCOL3605 or (PCOL3603 and PCOL3604). | Semester 1 |
| PHAR 4620 | Integrated Dispensing | 6 | PA pass in all second year units of study; either PHAR3601 or PHAR3602; either PHAR3613 or PHAR3623; either PHAR3614 or PHAR3615. | Semester 1 |
| PHAR 4616 | Pharmacotherapeutics in Practice | 6 | P A pass in all second year units of study. C PHAR 4618 | Semester 2 |
| 4010 | | | | |

| Unit of | Study | СР | A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition | Session |
|--------------|---|------|---|------------|
| PHAR 4622 | Pharmacy Management | 6 | P A pass in all second year units of study. | Semester 2 |
| Fourt | h Year Honours | | | |
| PHAR 4618 | Integrated Pharmacy Practice | 12 | P A pass in all second year units of study; PHAR3609; PHAR3610; either PHAR3630 or (PHAR3611 and PHAR3612); either PHAR3613 or PHAR3623; PHAR3614 or PHAR3615 or PHAR3624 or PHAR3627; either PCOL3605 or (PCOL3603 and PCOL3604) | Semester 1 |
| PHAR 4620 | Integrated Dispensing | 6 | P A pass in all second year units of study; either PHAR3601 or PHAR3602; either PHAR3613 or PHAR3623; either PHAR3614 or PHAR3615. | Semester 1 |
| PHAR 4616 | Pharmacotherapeutics in Practice | 6 | P A pass in all second year units of study. C PHAR 4618 | Semester 2 |
| plus one | of the following units of study from both | seme | ester 1 and semester 2 | |
| PCOL 4909 | Pharmacology Advanced 4A (Pharmacy) | 6 | NB: Department permission required for enrolment. Enrolment is by invitation only. | Semester 1 |
| PHAR 4927 | Pharmaceutics Advanced 4A | 6 | Q Enrolment is by invitation only. NB: Department permission required for enrolment. | Semester 1 |
| PHAR 4928 | Pharmaceutical Chemistry Advanced 4A | 6 | Q Enrolment is by invitation only. NB: Department permission required for enrolment. | Semester 1 |
| PHAR 4929 | Pharmacy Practice Advanced 4A | 6 | Q Enrolment is by invitation only. NB: Department permission required for enrolment. | Semester 1 |
| PCOL 4910 | Pharmacology Advanced 4B (Pharmacy) | 18 | P All Year 4 Semester 1 subjects at a credit level or better, including PCOL4909 C PHAR4616 NB: Department permission required for enrolment. Discipline permission required for enrolment. | Semester 2 |
| PHAR 4930 | Pharmaceutics Advanced 4B | 18 | P All Year 4 Semester 1 subjects at a credit level or better, including PHAR4927 Q Discipline permission required for enrolment. C PHAR4616 NB: Department permission required for enrolment. | Semester 2 |
| PHAR 4931 | Pharmaceutical Chemistry Advanced 4B | 18 | P All Year 4 Semester 1 subjects at a credit level or better, including PHAR4928 Q Discipline permission required for enrolment. C PHAR4616 NB: Department permission required for enrolment. | Semester 2 |
| PHAR 4932 | Pharmacy Practice Advanced 4B | 18 | P All Year 4 Semester 1 subjects at a credit level or better, including PHAR4929 Q Discipline permission required for enrolment. C PHAR4616 NB: Department permission required for enrolment. | Semester 2 |

Table 2: Bachelor of Pharmacy (Rural) Pass degree and Honours degree

| Unit of | Study | CP | A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition | Session |
|--------------------|---|----|--|-----------------------|
| Unit o | f Study | | | |
| First Y | Year | | | |
| BIOL 1001 | Concepts in Biology | 6 | A No previous knowledge required. Students are encouraged to take the Biology Bridging Course. Students who have completed HSC Biology are advised to enrol in BIOL1101 Ecosystems to Genes rather than BIOL1001. NBIOL (1101 or 1901) NB: It is recommended that BIOL (1001 or 1101 or 1901) be taken before all Semester 2 Junior units of study in Biology. | |
| or BIOL 1101 | Biology - Ecosystems to Genes | 6 | P HSC 2-unit Biology or equivalent.NBIOL (1001 or 1901)NB: It is recommended that BIOL (1001 or 1101 or 1901) be taken before all Semester 2 Junior units of study in Biology. | Semester 1 |
| CHEM 1611 | Chemistry A (Pharmacy) | 6 | A HSC Chemistry and Mathematics NB: Department permission required for enrolment. Students must have special permission from the Faculty of Pharmacy to enrol in this Unit of Study. | Semester 1 |
| MATH 1606 | Calculus and Statistics for Pharmacy | 6 | A HSC Mathematics or equivalent. Students without this assumed knowledge are advised to attend a bridging course in February. | Semester 1 |
| PHAR 1624 | Foundations of Rural Pharmacy | 6 | | Semester 1 |
| BIOL 1003 | Human Biology | 6 | A HSC 2-unit Biology N BIOL1903 or EDUH1016 | Semester 2, Summer |
| CHEM 1612 | Chemistry B (Pharmacy) | 6 | C CHEM 1611 Chemistry A (Pharmacy) NB: Department permission required for enrolment. Students must have special permission from the Faculty of Pharmacy to enrol in this Unit of Study. | Semester 2 |
| PHAR 1616 | Introductory Pharmaceutical Science | 6 | A HSC Chemistry C PHAR 1615, CHEM 1611 and CHEM 1612 | Semester 2 |
| PHAR 1617 | Social Pharmacy | 6 | C PHAR 1615 | Semester 2 |
| Secon | d Year | | | |
| BCHM 2613 | Biochemistry for Pharmacy | 6 | P CHEM 1611 and CHEM 1612 | Semester 1 |
| PHAR 2609 | Medicinal Chemistry 2A | 6 | PMATH1606 or (MATH1605 andSTAT1605); CHEM1611; CHEM1612; eitherPHAR1615 or (PHAR1613 and PHAR1614); PHAR1616 or PHAR1607 C BCHM 2613 or (BCHM 2611 and BCHM 2612) | Semester 1 |
| PHAR 2615 | Microbiology for Pharmacy | 6 | P BIOL (1001 or 1101 or 1901); either PHAR1615 or (PHAR1613 and PHAR1614); either PHAR1616 or PHAR1607 | Semester 1 |
| PSPC 2601 | Physiology and Pharmacology A (Phar- macy) | 6 | P CHEM 1611, CHEM 1612, BIOL (1001 or 1101 or 1901) and BIOL (1003 or 1903) C BCHM 2613 | Semester 1 |
| PHAR 2616 | Physical Pharmaceutics and Formulation A | 6 | P either MATH1606 or (MATH1605 and STAT1605); CHEM1611; CHEM1612; either PHAR1615 or (PHAR1613 and PHAR1614); either PHAR1616 or PHAR1607 C PHAR2615 | Semester 2 |
| PHAR 2617 | Pharmacy Practice 2 | 6 | P Either PHAR1615 or (PHAR1613 and PHAR1614); either PHAR1617 or PHAR1612 C PSPC 2601 or (PCOL 2603 and PHSI 2604) and PSPC 2602 or (PCOL 2604 and PHSI 2605) | Semester 2 |
| PHAR 2618 | Medicinal Chemistry 2B | 6 | C PSPC 2602 or (PCOL 2603 and PCOL 2604) and PHAR 2609 | Semester 2 |
| PSPC 2602 | Physiology and Pharmacology B (Phar- macy) | 6 | P CHEM 1611, CHEM 1612, BIOL (1001 or 1101 or 1901) and BIOL (1003 or 1903) C BCHM 2613 and PSPC 2601 | Semester 2 |
| Third | Year | | | |
| PCOL 3605 | Pharmacology 3 (Pharmacy) | 6 | P All first year units; BCHM2613 or (BCHM2611 & BCHM2612); PSPC2601 or (PCOL2603 and PHSI2604); PSPC2602 or (PCOL2604 and PHSI2605). | Semester 1 |
| PHAR 3609 | Medicinal Chemistry 3A | 6 | P A pass in all first year units of study; PHAR2609; PHAR2618 or PHAR2610 | Semester 1 |
| PHAR 3613 | Pharmacy Practice 3A | 6 | P All first year units of study; PSPC2601 or (PCOL2603 and PHSI2604); PSPC2602 or (PCOL2604 and PHSI2605); PHAR2617 or (PHAR2611 and PHAR2612) C PCOL3605 or (PCOL3603 and PCOL3604) | Semester 1 |
| PHAR 3630 | Pharmacokinetics and Pharmacogenetics | 6 | P All first year units of study; either PHAR2616 or (PHAR2613 and PHAR2614); either PSPC2601 or (PCOL2603 and PHSI2604); either PSPC2602 or (PCOL2604 and PHSI2605) C either PCOL3605 or (PCOL3603 and PCOL3604) | Semester 1 |
| PHAR 3602 | Dispensing | 6 | PA pass in all first year units of study; either PHAR2615 or (MICR2605 and PHAR2607); either PHAR2616 or (PHAR2613 and PHAR2614); either PHAR2617 or (PHAR2611 and PHAR2612) C PHAR 3631 | Semester 2 |
| PHAR 3610 | Medicinal Chemistry 3B | 6 | P All first year units of study C PCOL3605 or (PCOL3603 and PCOL3604); PHAR3609 | Semester 2 |

| Unit of | Study | СР | A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition | Session |
|--------------|---|------|---|------------|
| PHAR 3627 | Pharmacy Practice 3B (Rural) | 6 | P Al first year units of study. C PHAR3613; PCOL3605 or (PCOL3603 and PCOL3604) | Semester 2 |
| PHAR 3631 | Physical Pharmaceutics and Formulation B | 6 | P All first year units of study; either PHAR2615 or (MICR2605 and PHAR2607); either PHAR2616 or (PHAR2613 and PHAR2614) C PHAR3630 | Semester 2 |
| Fourt | h Year | | | |
| PHAR 4618 | Integrated Pharmacy Practice | 12 | P A pass in all second year units of study; PHAR3609; PHAR3610; either PHAR3630 or (PHAR3611 and PHAR3612); either PHAR3613 or PHAR3623; PHAR3614 or PHAR3615 or PHAR3624 or PHAR3627; either PCOL3605 or (PCOL3603 and PCOL3604) | Semester 1 |
| PHAR 4620 | Integrated Dispensing | 6 | P A pass in all second year units of study; either PHAR3601 or PHAR3602; either PHAR3613 or PHAR3623; either PHAR3614 or PHAR3615. | Semester 1 |
| PHAR 4650 | Health and Cultural Issues in Rural Aust | 6 | P A pass in all second year units of study; either PHAR3613 or PHAR3623; PHAR3625 or PHAR3623. N PHAR2626 | Semester 1 |
| PHAR 4651 | Clinical Practice (Rural) | 12 | P A pass in all second year units of study. C PHAR4618 and PHAR4650 | Semester 2 |
| PHAR 4652 | Pharmacotherapeutics in Rural Practice | 6 | P A pass in all second year units of study. C PHAR4618 | Semester 2 |
| PHAR 4653 | Integrated Rural and Remote Health Care | 6 | P A pass in all second year units of study. C PHAR4618 and PHAR4650 | Semester 2 |
| Fourt | h Year Honours | | | |
| PHAR 4618 | Integrated Pharmacy Practice | 12 | P A pass in all second year units of study; PHAR3609; PHAR3610; either PHAR3630 or (PHAR3611 and PHAR3612); either PHAR3613 or PHAR3623; PHAR3614 or PHAR3615 or PHAR3624 or PHAR3627; either PCOL3605 or (PCOL3603 and PCOL3604) | Semester 1 |
| PHAR 4620 | Integrated Dispensing | 6 | P A pass in all second year units of study; either PHAR3601 or PHAR3602; either PHAR3613 or PHAR3623; either PHAR3614 or PHAR3615. | Semester 1 |
| PHAR 4652 | Pharmacotherapeutics in Rural 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 | seme | ester 1 and semester 2 | |
| PCOL 4940 | Pharmacology Adv 4A - Pharmacy (Rural) | 6 | P All Year 3 pharmacy units of study. NB: Department permission required for enrolment. Enrolment is by invitation only. | Semester 1 |
| PHAR 4950 | Pharmaceutics Advanced 4A - Rural | 6 | Q Enrolment is by invitation only. NB: Department permission required for enrolment. | Semester 1 |
| PHAR 4951 | Pharmaceutical Chemistry Adv 4A - Rural | 6 | Q Enrolment is by invitation only. NB: Department permission required for enrolment. | Semester 1 |
| PHAR 4952 | Pharmacy Practice Advanced 4A - Rural | 6 | Q Enrolment is by invitation only. NB: Department permission required for enrolment. | Semester 1 |
| PCOL 4941 | Pharmacology Adv 4B - Pharmacy (Rural) | 18 | P All Year 4 Semester 1 subjects at a credit level or better, including PCOL4940 C PHAR4652 NB: Department permission required for enrolment. Discipline permission required for enrolment. | Semester 2 |
| PHAR 4953 | Pharmaceutics Advanced 4B - Rural | 18 | P All Year 4 Semester 1 subjects at a credit level or better, including PHAR4950. Q Discipline permission required for enrolment. C PHAR4652 NB: Department permission required for enrolment. | Semester 2 |
| PHAR 4954 | Pharmaceutical Chemistry Adv 4B - Rural | 18 | P All Year 4 Semester 1 subjects at a credit level or better, including PHAR4928. Q Discipline permission required for enrolment. C PHAR4652 NB: Department permission required for enrolment. | Semester 2 |
| PHAR 4955 | Pharmacy Practice Advanced 4B - Rural | 18 | P All Year 4 Semester 1 subjects at a credit level or better, including PHAR4929. Q Discipline permission required for enrolment. C PHAR4652 | Semester 2 |

* Note that year 1 units of study not available in 2005.

Units of study

BCHM 2613 Biochemistry for Pharmacy

6 credit points. B Pharm, B Pharm (Rural), UG Study Abroad Program. Assoc Prof A Jones. Session: Semester 1. Classes: 5 lec/wk. Prerequisites: CHEM 1611 and CHEM 1612. Assessment: One 3 hr exam, assignments

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, Comely C. Essential Biochemistry. Wiley, 2004.

BIOL 1001 Concepts in Biology

6 credit points. B A, B Agr Ec, B An Vet Bio Sc, B Anim Sc, B E, B Hort Sc, B L W Sc, 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 Sc (Environmental), B Sc (Marine Science), B Sc (Molecular Biology & Gene. Session: Semester 1, Summer. Classes: 3 lee & 3 hrs prac/wk. AssumedKnowledge: No previous knowledge required. Students are encourare advised to enrol in BIOL1101 Ecosystems to Genes rather than BIOL1001. **Prohib** itions: BIOL (1101 or 1901). Assessment: One 2.5hr exam, assignments, quizzes. NB: It is recommended that BIOL (1001 or 1101 or 1901) be taken before all Semester 2 Junior units of study in Biology

Concepts in Biology is an introduction to the major themes of modern biology. We start with introductory cell biology, which particularly emphasises how cells obtain and use energy. We then discuss the structure and function of microorganisms. The significance of molecular biology is covered working from the role of DNA in protein synthesis and development through to modern techniques and their uses. The genetics of organisms is then discussed, leading to consideration of theories of evolution and the origins of the di versity of modern organisms. We bring all the abovementioned concepts together to develop an understanding of interactions between organisms in biological communities or ecosystems. Finally we discuss the significance of human impact on other living organisms, with particular reference to finding solutions to problems in areas such as global warming, introduced pests, and extinctions. The unit is designed so that lab classes and the field trip integrate with the lectures. Lab activities are carried out in groups so that team work skills are developed. This unit also incorporates a number of key generic skills such as written communication skills, discussion and data interpretation, and experimental design and hypothesis testing skills.

Textbooks

Knox R B, Ladiges P and Evans B, (2005) Biology, 3rd Ed. McGraw-Hill

A Unit of Study Manual will be available for purchase from the Copy Centre during the first week of semester

BIOL 1003 Human Biology

6 credit points. B A, B Agr Ec, B E, 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 Sc (Environ-mental), B Sc (Marine Science), B Sc (Nutrition), UG Study Abroad Program, UG mental), B Sc (Marine Science), B Sc (Nutrition), UG Study Abroad Program, UG Summer /Winter School. Session: Semester 2, Summer. Classes: Two or three, one hour lectures per week (3 lectures in weeks 1 and 13) plus 1 hour per lecture of inde-pendent study. Two 3 hour laboratory sessions every three weeks, plus 6-9 hours HBOnline work every three weeks covering online practical activities, prework and homework. AssumedKnowledge: HSC 2-unit Biology. Prohibitions: BIOL1903 or EDUH1016. Assessment: One 2.5hr exam, assignment, poster and quizzes. This Line of Study hose three mediacompensational activities. 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 ana-tomy, through both 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. It is recommended that BIOL (1001 or 1101 or 1901) be taken before this unit of study. Enrolment may be restricted by the availability of places. This unit of study, together with BIOL (1001 or 1101 or 1901), provides entry to Intermediate units of study in Biology, but the content of BIOL (1002 or 1902) is assumed knowledge for BIOL (2011 or 2012) and PLNT (2002 or 2003) and students entering from BIOL (1003 or 1903) will need to do some preparatory reading.

Textbooks Seeley, R., Stephens, T.D. & Tate, P. (2005) Essentials of Human Anatomy and Physiology, McGraw Hill which comes with a custom publication of Mader, SS (2004) Human Biology, 8th Ed., McGraw-Hill.

The Course Reader will be available for purchase from the Copy Centre during the first week of Semester.

BIOL 1101 Biology - Ecosystems to Genes 6 credit points. B A, B Agr Ec, B An Vet Bio Sc, B E, B Hort Sc, B L W Sc, B Med Sc, B N, B N (I A H), B N, B A, B N, B Sc, B Pharm, B Res Ec, B Sc, B Sc (Bioinform-atics), B Sc (Environmental), B Sc (Marine Science), B Sc (Molecular Biology & Ge-netics), B Sc (Nutrition), B Sc. Session: Semester 1. Classes: 3 lee & 2-3 hrs. prac/wk. Prerequisites: HSC 2-unit Biology or equivalent. Prohibitions: BIOL (1001 or 1901). Assessment: One 2.5hr exam, assignments, quizzes. NB: It is recommended that BIOL (1001 or 1101 or 1901) be taken before all Semester

2 Junior units of study in Biology. Biology - Ecosystems to Genes builds on the main themes introduced in HSC 2-unit Biology to provide a background to the breadth of biology, including: cell biology, with emphasis on how cells obtain and use energy; diversity of microorganisms, genetics of organisms; modern molecular biology; theories of evolution and the origins of diversity of modern organisms; and interactions between organisms in biological communities.

Textbooks

Knox R B, Ladiges P and Evans B (2005) Biology., 3rd Ed., McGraw-Hill A Unit of Study Manual will be available for purchase from the Copy Centre during the first week of semester.

CHEM 1611 Chemistry A (Pharmacy)

6 credit points. B A, B Pharm, B Pharm (Rural), UG Study Abroad Program, UG Summer/Winter School. See School of Chemistry for list of staff. Session: Semester 1. Classes: 3 lee & 1 tut/wk & 3hrs prac/wk for 10 wks. AssumedKnowledge: 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. NB: Department permission required for enrolment. Students must have special permission from the Faculty of Pharmacy to enrol in this Unit of Study

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, chemical energetics, equilibrium theory, solution theory, 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 preparative studies: Students wishing to enrol in CHEM 1611 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 booklist from the School of Chemistry during the orientation period.

CHEM 1612 Chemistry B (Pharmacy) 6 credit points. B A, B Pharm, B Pharm (Rural), UG Study Abroad Program, UG Summer/Winter School. See School of Chemistry for list of staff. Session: Semester 2. Classes: 3 lee & 1 tut/wk & 3hrs prac/wk for 10 wks. Corequisites: CHEM 1611 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. NB: Department permission required for enrolment. Students must have special permission from the Faculty of Pharmacy to enrol in this Unit of Study.

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, introduction to organic chemistry nomenclature, aliphatic chemistry, aromatic chemistry, heterocyclic compounds, isomerism, stereoisomerism, reaction mechanisms, biomolecules, amino acids and peptides, carbohydrates. 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 booklist from the School of Chemistry during the orientation period.

MATH 1606 Calculus and Statistics for Pharmacy

6 credit points. B Pharm, B Pharm (Rural), UG Study Abroad Program. Session: Semester 1. Classes: 4 lee and 2 tut/wk. AssumedKnowledge: HSC Mathematics or

equivalent. Students without this assumed knowledge are advised to attend a bridging urse in February. Assessment: Assignments and quizzes, one 3 hr exam This unit of study provides mathematical tools that are needed for other units of study in this degree. In the calculus component, the emphasis is on the behaviour of functions of various kinds, leading to the solution of differential equations. The statistics component covers data analysis, descriptive statistics, elementary probability theory, sampling methods, statistical inference, hypothesis testing, correlation and regression, analysis of variance. Textbooks

Choo K, Easdown D. Course notes for MATH 1606 Calculus. Phipps MC, Quine MP. A Primer of Statistics (4th ed). Prentice-Hall, 2001.

PCOL 3605 Pharmacology 3 (Pharmacy)

PCOL 3605 Pharmacology 5 (Pharmacy) 6 credit points. B Pharm, B Pharm (Rural), UG Study Abroad Program. Dr H Lloyd. Session: Semester 1. Classes: 4 lec/wk for 7 wks, 3 lec/wk for 6 wks, and 18 hrs prac/workshop/tut. Prerequisites: All first year units; BCHM2613 or (BCHM2611 & BCHM2612); PSPC2601 or (PCOL2603 and PHSI2604); PSPC2602 or (PCOL2604 and PHSI2605). Assessment: One 2 hr exam (70 per cent), one 1 hr mid-semester test (20 per cent), continuous assessment (10 per cent).

This unit of study builds upon the understanding of drug actions related to physiological and pathological functions gained in PSPC 2601 and PSPC 2602, as well as the therapeutic applications of drugs based on their underlying pharmacology. It covers analgesics and anti-inflammatory agents, respiratory and gastro-intestinal drugs, drugs affecting nutritional and metabolic function, chemotherapy for infectious diseases and cancer, immunosuppressants, drugs of abuse, drugs affecting blood, anaesthetics, hypnotics, sedatives, anticonvulsants, anxiolytics, antidepressants, antipsychotics, drugs used to treat motor disturbances and dementias, and clinical toxicology (adverse drug reactions and drug interactions, drug overdose and poisoning, and development and introduction of new drugs). Textbooks

Rang HP et al. Pharmacology (5th ed). Churchill Livingstone, 2003.

Study aids

Neal MJ. Medical Pharmacology at a Glance (4th ed). Blackwell Science, 2002.

Reference books

Cooper JR et al. The Biochemical Basis of Neuropharmacology (8th ed). Oxford, 2003. Hardman JG et al (eds). Goodman and Gilman's The Pharmacological Basis of Therapeutics (10th ed). McGraw-Hill, 2001.

PCOL 4909 Pharmacology Advanced 4A (Pharmacy)

6 credit points. B Pharm. Dr J Henderson. Session: Semester 1. Classes: Seminar, tut/workshop/prac class, project work/wk. Assessment: Assignments, oral presentations,

written reports, exam. NB: Department permission required for enrolment. Enrolment is by invitation only. 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 pro-ject to be completed in PCOL 4910 Pharmacology Advanced 4B (Pharmacy), by undertaking preliminary laboratory work and preparing a literature review and research proposal for both oral and written presentation.

PCOL 4910 Pharmacology Advanced 4B (Pharmacy)

PCOL 4910 Fnarmacology Advanced 4D (Fnarmacy) 18 credit points. B Pharm. Dr J Henderson. Session: Semester 2. Classes: Semin-ar/tut/workshop, project/wk. Prerequisites: All Year 4 Semester 1 subjects at a credit level or better, including PCOL4909. Corequisites: PHAR4616. Assessment: Oral presentation, written dissertation, laboratory placement work. NB: Department permission required for enrolment. Discipline permission required for enrolment.

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, PCOL 4909 Pharmacology Advanced 4A (Pharmacy), in which preliminary literature reviews and research proposals were completed.

PCOL 4940 Pharmacology Adv 4A - Pharmacy (Rural) 6 credit points. B Pharm (Rural). Dr J Henderson. Session: Semester 1. Classes: Seminar, tut/workshop/prac class, project/wk. Prerequisites: All Year 3 pharmacy units of study. Assessment: Assignments, oral presentations, written reports, exam. NB: Department permission required for enrolment. Enrolment is by invitation only. 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 PCOL 4941 Pharmacology Advanced 4B (Pharmacy) (Rural), by undertaking preliminary laboratory work and preparing a literature review and research proposal for both oral and written presentation.

PCOL 4941 **Pharmacology Adv 4B - Pharmacy (Rural)** 18 credit points. B Pharm (Rural). Dr J Henderson. **Session:** Semester 2. **Classes:** Seminar/tut/workshop, project/wk. **Prerequisites:** All Year 4 Semester 1 subjects at a credit level or better, including PCOL4940. **Corequisites:** PHAR4652. **Assessment:** Oral presentation, written dissertation, laboratory placement work. NB: Department permission required for enrolment. Discipline permission required for enrolment

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, PCOL 4909 Pharmacology Advanced 4A (Pharmacy), in which preliminary literature reviews and research proposals were completed.

PHAR 1615 Foundations of Pharmacy

6 credit points. B Pharm, UG Study Abroad Program. Ms E Sainsbury and Dr L Smith. Session: Semester 1. Classes: Three 1 hr lec/wk and one 2 hr workshop/wk, plus one 2 hr workshop/fortnight. Assessment: Individual assignments (40 per cent), group reports (40 per cent), end of semester 1 hour exam (20 per cent). 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. Patient-phar-macist interactions will be explored along with the psychosocial as-pects relevant to the practice of pharmacy, and the role and distribution of medications in the healthcare system. A short period of pro-fessional experience will also be included. Textbooks

A textbook list will be made available at the beginning of semester.

PHAR 1616 Introductory Pharmaceutical Science

6 credit points. B Pharm, B Pharm (Rural), UG Study Abroad Program. Ms E Sainsbury. Session: Semester 2. Classes: 4 hr lee and 2 hr workshop/wk. AssumedKnowledge: HSC Chemistry. Corequisites: PHAR 1615, CHEM 1611 and CHEM 1612. Assessment: One 2 hr theory exam (50 per cent), group assignment (15 per cent), quizzes (20 per cent) and tutorial assessments (15 per cent). 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. Small group work in workshop sessions will complement and support the learning of material introduced in lectures.

Textbooks

As for PHAR 1615 Foundations of Pharmacy.

PHAR 1617 Social Pharmacy

6 credit points. B Pharm, B Pharm (Rural), UG Study Abroad Program. Session: Semester 2. Classes: 3 hr lec/wk, 2 hr tut/wk, four 3 hr externship. Corequisites: PHAR 1615. Assessment: 2 hr exam (50 per cent), assignments (25 per cent), presentation

and reports (25 per cent). This unit of study consists of 2 major streams:

(a) Professional pharmacy: which provides a history of the profession of pharmacy and an introduction to professional practice through lectures, workshops and fieldwork in clinical settings. Topics include early history of medicines and pharmacy, the development of the profession in European countries, the history of pharmacy in Australia, the current roles of the pharmacist in the health care system, the relationship of pharmacy to other health care professions, National Medicines Policy, and client expectation of the profession. Verbal and written communication skills are developed in relation to professional pharmacy issues.

(b) Patient perspectives on health and illness: which is designed to provide a broad perspective of health and illness, and encourage a view of the patient as a whole person. The emphasis will be on the psychological processes that underpin or drive patient cognition, affect and behaviour.

Textbooks

Gard PA. Behavioral Approach to Pharmacy Practice. Oxford: Blackwell Science, 2000.

PHAR 1624 Foundations of Rural Pharmacy

6 credit points. B Pharm (Rural). Dr S Taylor. Session: Semester 1. Classes: Three 1 hr lec/wk and one 2 hr workshop/wk, plus one 2 hr workshop/fortnight. Assessment: Individual assignments (40 per cent), group reports (40 per cent), 1 hour end of session xam (20 per cent).

This unit will provide an introduction to the practice of rural 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. Patient-pharmacist interactions will be explored along with the psychosocial aspects relevant to the practice of pharmacy, and the role and distribution of medications in the healthcare system. In addition, it will increase the awareness of issues associated with the social, environmental and political underpinnings of rural and remote communities and their impact on health and the practice of pharmacy. A short period of professional experience will also be included. Textbooks

Wilkinson D, Blue I (eds). The New Rural Health. Oxford University Press.

PHAR 2609 Medicinal Chemistry 2A

PHAR 2009 Medicinal Chemistry 2A 6 credit points. B Pharm, B Pharm (Rural), UG Study Abroad Program. Dr Jane Hanra-han. Session: Semester 1. Classes: 3 hr lec/wk, 3 tut/semester, 2 hr lab/workshop/wk and 1 hr self-directed learning/wk. Prerequisites: MATH 1606 or (MATH 1605 and STAT1605); CHEM1611; CHEM1612; either PHAR1615 or (PHAR1613 and PHAR1614); PHAR1616 or PHAR1607. Corequisites: BCHM 2613 or (BCHM 2611 and BCHM 2612). Assessment: One 2.5 hr exam (54 per cent), laboratories and workshops (36 per cent) maior quiz (10 per cent). vorkshops (36 per cent), major quiz (10 per cent).

This unit of study aims to relate the physico-chemical properties of drugs to the methods of analysis used in identification of drugs and to the interactions of small molecules (drugs) with biological macromolecules (receptors, enzymes, etc) and cell signalling 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 the use of information technology.

Textbooks

Watson DG. Pharmaceutical Analysis (2nd ed). Churchill Livingston, 2005.Foye WO et al. Principles of Medicinal Chemistry (5th ed). Lippincott, Williams and Wilkins, 2002

2002. Block JH, Beale JM (eds). Wilson and Gisvold's textbook of organic medicinal and pharmaceutical chemistry (11th ed). Lippincott, Williams and Wilkins, 2004. Nogrady T. Medicinal Chemistry - a Biochemical Approach. Oxford UP, 1988. Burger AB. Medicinal Chemistry (4th ed). Interscience, 1997. Solomons TWG. Organic Chemistry (7th ed). Wiley, 2000.

PHAR 2615 Microbiology for Pharmacy

6 credit points. B Pharm, B Pharm (Rural), UG Study Abroad Program. Session: Semester 1. Classes: 2 lee, 3 hr prac, 1 hr self-directed learning/wk. Prerequisites: BIOL (1001 or 1101 or 1901); either PHAR1615 or (PHAR1613 and PHAR1614); either PHAR1616 or PHAR1607. Assessment: One 2 h exam (65 per cent), quiz (5 per cent), practicals including workshop (30 per cent).

This unit of study provides information on the biology of micro-organisms with particular reference to the importance of micro-organisms 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 micro-organisms; 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

Reference books

Tortora GT et al. Microbiology: An Introduction (8th ed). Pearson, Benjamin Cummings, 2004

Denyer S, Hodges N, Gorman S. Hugo and Russell's Pharmaceutical Microbiology (7th ed). Blackwell, 2004.

PHAR 2616 Physical Pharmaceutics and Formulation A

6 credit points. B Pharm, B Pharm (Rural), UG Study Abroad Program. Dr P Young. Session: Semester 2. Classes: 4 hr/wk lee and tut; 3 hrs/wk prac for 8 wks. Prerequis-ites: either MATH1606 or (MATH1605 and STAT1605); CHEM1611; CHEM1612; either PHAR1615 or (PHAR1613 and PHAR1614); either PHAR1616 or PHAR1607. Corequisites: PHAR2615. Assessment: One 2 hr exam (70 per cent), minor exam (15 er cent), prac (15 per cent).

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. Relate 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

Ansel et al. Pharmaceutical Dose Forms and Drug Delivery Systems (7th ed). Lea and Febiger, 1999.

Auton ME. Pharmaceutics: The Science of Dosage Form Design (2nd ed). Churchill Livingston, 2002. Reference books

Florence AT, Attwood D. Physiochemical Principles of Pharmacy (3rd ed). Macmillan, 1998

Martin A. Bustamante P. Physical Pharmacy (4th ed), Lea and Febiger, 1993 Conners et al, Chemical Stability of Pharmaceuticals. Wiley-Interscience, 1979. Banker GS, Rhodes CT (eds). Modern Pharmaceutics (4th ed). Marcel Dekker, 1992. Danker GS, Khodes Cf (eds). Modern Pharmaceutics (4th ed). Marcel Dekker, 199. Connors KA et al. Chemical Stability of Pharmaceuticals. Wiley-Interscience, 1986. Gennaro AR (ed). Remington's Pharmaceutical Sciences (18th ed). Mack, 1990. Lachman L et al. The Theory and Practice of Industrial Pharmacy. Lea and Febiger, 1986.

PHAR 2617 Pharmacy Practice 2

6 credit points. B Pharm, B Pharm (Rural), UG Study Abroad Program. Dr B Bajorek, Dr S Bosnic-Anticevich. Session: Semester 2. Classes: On-campus as lectures and tutorials. Prerequisites: Either PHAR1615 or (PHAR1613 and PHAR1614); either PHAR1617 or PHAR1612. Corequisites: PSPC 2601 or (PCOL 2603 and PHS12604) and PSPC 2602 or (PCOL 2604 and PHSI 2605). Assessment: Continuous assessment (40 per cent), written assessment (30 per cent), oral assessment (30 per cent). This unit of study will cover aspects of patient care and the practice of pharmacy associated with diseases and management of diseases. This will include an exam of the communication process associated with pharmacist-patient as well as pharmacist-health care professional relationships. Tutorials will support the learning material as well include verbal and written skills development and problem solving

within the context of disease, medication management and the health care environment. Textbooks

Walker R, Edwards C (eds). Clinical Pharmacy and Therapeutics. (3rd ed), 2003. Rossi S (managing ed). Australian Medicines Handbook (current ed) References

Rantucci, MJ. Pharmacists talking with Patients - a Guide to Patient Counselling. Wil-liams and Wilkins, 1997.

Thomas, J (ed). Australian Prescription Products Guide, Vols 1 and 2 (31st ed). Hawthorn

Vic: Australian Pharmaceutical Publishing, 2002. MEVIS Annual 2002. Sydney Australia: MEVIS, 2002. Berkow, R (ed). The Merck Manual of Diagnosis and Therapy (18th ed). Rayway NJ:

Berkow, K (ed). The Merck Manual of Diagnosis and Therapy (18th ed). Rayway NJ: Merck and Co, 1999.
Herfindal, E, Gourley, D. Textbook of Therapeutics: Drug and Disease Management (7th ed). Baltimore: Williams and Wilkins, 2000.
Hughes J, Donnelly R, James-Chatgilaou G (eds). Clinical Pharmacy: A Practical Ap-proach. South Yara: Macmillan Education Australia, 1998.
Therapeutic Guidelines. North Melbourne Vic: Victorian Drug Usage Advisory Com-mittae 1995 2001

mittee, 1995-2001. Tatro, D (ed). Drug Interaction Facts (online).

PHAR 2618 Medicinal Chemistry 2B 6 credit points. B Pharm, B Pharm (Rural), UG Study Abroad Program. Dr C C Duke. Session: Semester 2. Classes: 3 hr lee, 1 hr tut and 2 hr workshop/wk. Corequisites: PSPC 2602 or (PCOL 2603 and PCOL 2604) and PHAR 2609. Assessment: One 2.5 hr exam (55 per cent), workshops and quizzes (45 per cent). 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/QS AR 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. Texthooks

As for PHAR 2609 Medicinal Chemistry 2A.

PHAR 3602 Dispensing

6 credit points. B Pharm, B Pharm (Rural), UG Study Abroad Program. Session: Semester 2. Classes: In-semester assignments, mid-semester exams, group work and individual work. **Prerequisites:** A pass in all first year units of study; either PHAR2615 or (MICR2605 and PHAR2607); either PHAR2616 or (PHAR2613 and PHAR2614); either PHAR2617 or (PHAR2611 and PHAR2612). **Corequisites:** PHAR 3631. Assessment: Two 3 hr practical exams, one 90 min theory exam, continuous assessment. 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 complements the lectures, allowing students to prepare a variety of pharmaceutical products and critically assess them, as well as facilitating the development of error-detection skills.

Textbooks

Australian Pharmaceutical Formulary. (19th ed), 2004

PHAR 3609 Medicinal Chemistry 3A

6 credit points. B Pharm (Rural), UG Study Abroad Program. Dr A Ammit. Session: Semester 1. Classes: 4 hrs lee, self-directed learning or tut/wk and 4 hrs prac for 6 wk. Prerequisites: A pass in all first year units of study; PHAR2609; PHAR2618 or PHAR2610. Assessment: Mid-term and final exams 90 mins each (total 70 per cent), practical report (30 per cent).

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 serotinergics; 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

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

PHAR 3610 Medicinal Chemistry 3B

6 credit points. B Pharm, B Pharm (Rural), UG Study Abroad Program. Dr M Collins. Session: Semester 2. Classes: 2 hr lee and 0.5 hr tut/wk, 1 hr self-directed learning/wk and 24 hrs of prac over 8 wks. Prerequisites: All first year units of study. Corequisites: PCOL3605 or (PCOL3603 and PCOL3604); PHAR3609. Assessment: One 1.5 hr midterm exam and one 1.5 hr final exam (total 70 per cent), classwork (30 per cent). This unit of study continues on the principles of medicinal chemistry established and developed in PHAR 3609 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.

Foye WO et al. Principles of Medicinal Chemistry (5th ed). Williams and Wilkins, 2002.

Reference books

Watson DG. Pharmaceutical Analysis. Churchill Livingstone, 1999

Watson DG, Pnarmaceutical Analysis. Churchill Livingstone, 1999.
 Nogrady T, Medicinal Chemistry - a Biochemical Approach. Oxford UP, 1988.
 Burger, AB. Medicinal Chemistry (4th ed). Interscience, 1997.
 Delgado JN, Remers WA. Textbook of Organic, Medicinal and Pharmaceutical Chemistry (10th ed). Lippincott Raven, 1998.
 Solomons TWG. Organic Chemistry (7th ed). Wiley, 2000.

PHAR 3613 Pharmacy Practice 3A

PTIAK 5015 Pharmacy Practice 3A
6 credit points. B Pharm, B Pharm (Rural), UG Study Abroad Program. Dr T Chen.
Session: Semester 1. Classes: 2 lec/wk, eleven 2 hr tut and eleven 3 hr field work sessions. Prerequisites: 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 (50 per cent), tutorials (10 per cent), externship (10 per cent), written assessment (20 per cent), computer quizzes (10 per cent).
(a) Therapeutics: This strand is a continuation of the therapeutics section of Pharmacy Practice 2 (PHAR 2617). Topics covered include

section of Pharmacy Practice 2 (PHAR 2617). Topics covered include renal diseases, hepatic diseases, haematology, diseases of the eye and ear, gastrointestinal diseases, rheumatology, and urology. Each of these 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 implementing clinical interventions and interprofessional communication.

(b) 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.

(c) Tutorial: The tutorials will employ case-based learning tech-

niques. 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.

macistis Will also take place. *Textbooks* Walker R, Edwards C (eds). Clinical Pharmacy and Therapeutics. (3rd ed), 2003. Rossi S (managing ed). Australian Medicines Handbook, (current ed). Therapeutic Guidelines. Victorian Drug Usage Advisory Committee, (current eds). Chen, Whitehead, Williams, Moles, Aslani, Benrimoj. Case Studies in Practice: Medic-ation Review a process guide for pharmacists. PSA, 2002. Chen, Moles, Bajorek, Aslani. Case Studies in Practice: Pharmacist Only and Pharmacy Medicines a process guide for pharmacists. PSA, 2003.

PHAR 3615 Pharmacy Practice 3B 6 credit points. B Pharm, UG Study Abroad Program. Ms R Moles. Session: Semester 2. Classes: 2 lec/wk, eleven 2 hr tuts and eleven 3 hr field work sessions. Prerequisites: All first year units of study. Corequisites: PHAR3613; PCOL3605 or (PCOL3603 and PCOL3604). Assessment: Written and oral exam (50 per cent), tutorials (10 per cent), externship (10 per cent), written assessment (20 per cent), computer quizzes (10 per cent). cent)

(a) Therapeutics: This section is a continuation of the therapeutics section of PHAR 3613 Pharmacy Practice 3A. Topics covered will include neurology, mental health, obstetrics and gynaecology and dermatology. 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.

(b) 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.

(c) 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 As for PHAR 3613 Pharmacy Practice 3A.

PHAR 3627 Pharmacy Practice 3B (Rural)

6 credit points. B Pharm (Rural). Ms R Moles. Session: Semester 2. Classes: 2 lec/wk, eleven 2 hr tut and 1 wk rural placement in semester break. Prerequisites: Al first year units of study. Corequisites: PHAR3613; PCOL3605 or (PCOL3603 andPCOL3604). Assessment: Written and oral exam (50 per cent), tutorials (10 per cent), externship (10 per cent), written assessment (20 per cent), computer quizzes (10 per cent). (a) Therapeutics: This section is a continuation of the therapeutics section of PHAR 3613 Pharmacy Practice 3A. Topics covered will include neurology, mental health, obstetrics and gynaecology and dermatology. 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.

(b) 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. (c) Tutorial: The tutorials will employ case-based learning tech-

niques. 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

As for PHAR 3613 Pharmacy Practice 3A.

PHAR 3630 Pharmacokinetics and Pharmacogenetics

6 credit points. B Pharm, B Pharm (Rural), UG Study Abroad Program. Dr M Chetty. Session: Semester 1. Classes: Five 1 hr sessions/wk, small group tuts: 1 hr session/wk. Prerequisites: All first year units of study; either PHAR2616 or (PHAR2613 and PHAR2614); either PSPC2601 or (PCOL2603 and PHSI2604); either PSPC2602 or (PCOL2604 and PHSI2605). Corequisites: either PCOL3605 or (PCOL3603 and PCOL3604). Assessment: Two 15 hr exams (60 per cent) and 3 quizzes (40 per cent). This unit of study deals with fundamental concepts in pharmacokin-etics, 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; Monoexponential pharmacokinetics; Non-compartmental pharmacokinetics; Moment analysis; Drug distribution; IV Infusion kinetics; Multiexponential pharmacokinetics; Kinetics following extravascular doses; Bioavailability/Bioequivalence; Drug clearance mechanisms; Renal clearance; Hepatic clearance; Metabolite kinetics; Nonlinear pharmacokinetics; Multiple dose kinetics; Pharmacodynamics and Dose regimen design.

Additional basic pharmacokinetic theory and its application to clin-ical 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

Textbooks Recommended Reading Shargel L, Yu ABC. Applied Biopharmaceutics and Pharmacokinetics. (4th ed), 1999. Rowland M, Tozer TN. Clinical Pharmacokinetics. (3rd ed), 1995. Winter M. Basic Clinical Pharmacokinetics. (3rd ed), 1994. Birkett DJ. Pharmacokinetics Made Easy. (Revised ed), 2002.

PHAR 3631 Physical Pharmaceutics and Formulation B

6 credit points. B Pharm, B Pharm (Rural), UG Study Abroad Program. Assoc Prof H K Chan. Session: Semester 2. Classes: 4 hr/wk lee and tut; 3 hrs/wk prac for 8 wks. **Prerequisites:** All first year units of study; either PHAR2615 or (MICR2605 and PHAR2607); either PHAR2616 or (PHAR2613 and PHAR2614). **Corequisites:** PHAR3630. Assessment: One 2 hr exam (70 per cent), minor exam (15 per cent), prac 15 per cent)

This unit of study builds on the material presented in PhysForm A The 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.

A workshop designed to integrate and apply the information from PhysForm A and B concludes this unit.

Textbooks

As for PHAR 2616 Physical Pharmaceutics and Formulation A.

PHAR 4616 Pharmacotherapeutics in Practice

6 credit points. B Pharm, UG Study Abroad Program. Session: Semester 2. Classes: 2 hr lee and 3 hr tut/wk, six 3 hr workshops. **Prerequisites:** A pass in all second year units of study. **Corequisites:** PHAR 4618. **Assessment:** Tutorial participation, student problem based learning problem, written exam. Satisfactory performance in all areas of this unit of study is required.

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 and in ethical problem solving and delivery of elements of disease state management services for diabetes, asthma, drugs of dependence and heart failure.

Textbooks

Walker R, Edwards C (eds). Clinical Pharmacy and Therapeutics (2nd ed). Churchill Livingstone, 1999.

Rossi, S (ed). Australian Medicines Handbook. Adelaide: 2003. Herfindal ET, Gourley DR, Lloyd Hart L (eds). Clinical Pharmacy and Therapeutics, 2000

PHAR 4618 Integrated Pharmacy Practice

PHAR 4618 Integrated Pharmacy Practice 12 credit points. B Pharm, B Pharm (Rural), UG Study Abroad Program. Session: Semester 1. Classes: 5 hrs clinical placement/wk (or equivalent), 1 hr lee and 5 hrs tuts/wk. Prerequisites: A pass in all second year units of study; PHAR3609; PHAR3610; either PHAR3630 or (PHAR3611 and PHAR3612); either PHAR3613 or PHAR3625; PHAR3614 or PHAR3615 or PHAR3627; either PHAR3613 or PHAR3625 or (PCOL3603 and PCOL3604). Assessment: Oral presentations, tutorial participation, written exam. Satisfactory performance in all areas of this unit of study is required. This unit of study focuses on knowledge consolidation, therapeutics, application of knowledge medication management review and disapplication 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 practicebased 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

Walker R, Edwards C (eds). Clinical Pharmacy and Therapeutics (2nd ed). Churchill Rossi, S (ed). Australian Medicines Handbook. Adelaide: 2003. Herfindal ET, Gourley DR, Lloyd Hart L (eds). Clinical Pharmacy and Therapeutics,

2000. Manual of Use and Interpretation of Pathology Tests. Royal College of Pathologists of Australasia, (2nd ed). 1997. Kaplan A, Szabo L. Clinical Chemistry: Interpretation and Techniques (4th ed). Williams

andWilkins, 1994

PHAR 4619 Drug Development & New Drug Technologies

6 credit points. B Pharm, UG Study Abroad Program. Session: Semester 1. Classes: 4 hr/wk workshops; 2 hr/wk lee. **Prerequisites:** A pass in all Second Year units of study; either PHAR3630 or (PHAR3611 and PHAR3612); either PHAR3631 or (PHAR3607, PHAR3608, PHAR2613 and PHAR2614); PHAR3609; PHAR 3610; either PCOL3605 or (PCOL3603 and PCOL3604). Assessment: Oral presentation (15 per cent), open book assessment (35 per cent), 1.5 hrs exam (25 per cent), workshop written assignment (10 per cent), workshop written and poster assignments (15 per cent).

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. The 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 Foye WO et al. Principles of Medicinal Chemistry (5th ed). Williams and Wilkins, 2002.

Shargel L, Yu ABC. Applied Biopharmaceutics and Pharmacokinetics. (4th ed), 1999. Rowland M, Tozer TN. Clinical Pharmacokinetics. (3rd ed), 1995. Winter M. Basic Clinical Pharmacokinetics. (3rd ed), 1994.

Winter M. Basic Clinical Phalmacokinetics. (Sevised ed), 1994. Birkett DJ. Pharmacokinetics Made Easy. (Revised ed), 2002. Aulton ME. Pharmaceutics: The science of dosage form design. (2nd ed), 2002. Ansel HC et al. Pharmaceutical dosage forms and drug delivery systems. (7th ed), 1999. Reference Book Shen WC, Louie SG. Introduction to Immunology for Pharmacy Students. Amsterdam: Harwood Academic, 1999.

PHAR 4620 Integrated Dispensing

6 credit points. B Pharm, B Pharm (Rural), UG Study Abroad Program. Session: Semester 1. Classes: 2 hr tut and 2 hr prac class/wk. Prerequisites: A pass in all second year units of study; either PHAR3601 or PHAR3602; either PHAR3613 or PHAR3623; either PHAR3614 or PHAR3615. Assessment: Demonstrate adequate performance in practical exam, continuous assessment, Forensic Pharmacy exam and portfolio presentation

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 re ceived 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. Texthoo

As for PHAR 3602 Dispensing, PHAR 3613 Pharmacy Practice 3A and PHAR 3615 Pharmacy Practice 3B

PHAR 4621 Clinical Practice

12 credit points. B Pharm, UG Study Abroad Program. Dr S McAteer. Session: Semester 2. Classes: 12 hrs clinical placement/wk (or equivalent). Prerequisites: A pass in all second year units of study. Corequisites: PHAR 4618. Assessment: Continuous assessment, oral presentation and written exam. Satisfactory performance in all areas of this unit of study is required.

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.

PHAR 4622 Pharmacy Management

6 credit points. B Pharm, UG Study Abroad Program. Session: Semester 2. Classes: One 1 hr lec/wk, two 2 hr tut/wk, 1.5 hrs/wk self directed/experiential learning. A mix of lectures, problem based learning and experiential elements will be used to deliver the course. **Prerequisites:** A pass in all second year units of study. **Assessment:** A mix of summative and formative methods of assessment will be used.

The course will introduce retail and management issues that are crucial for understanding pharmacy business operations. These have been divided into 4 streams, namely finance and accounting, human resource, marketing and strategy to enable a pharmacy graduate to observe the pharmacy environment, relate theory with observed practices and be able to develop the management and retail skills required in the pharmacy industry.

PHAR 4650 Health and Cultural Issues in Rural Aust

6 credit points. B Pharm (Rural). Session: Semester 1. Classes: 1 hr lee, one 2 hr tut/wk, 13 hrs self-directed learning and 3 day externship. **Prerequisites:** A pass in all second year units of study; either PHAR3613 or PHAR3623; PHAR3625 or PHAR3623. **Prohibitions:** PHAR2626. Assessment: Classwork (40 per cent), exam (40 per cent), externship report (20 per cent).

This unit of study aims to introduce students to the health issues in rural and remote communities which may result from the social, environmental and political underpinnings of those communities. Students will be made aware of diseases which are more prevalent than in the metropolitan setting. Issues relating to cultural diversity and indigenous health in rural and remote areas will be explored and different modes of communication and service delivery will be investigated. The externship will include visits to Aboriginal communities and health settings.

Textbooks Wilkinson D, Blue I (eds). The New Rural Health. Oxford University Press. Couzos S, Murray R (eds). Aboriginal Primary Health Care. Oxford University Press.

Reference Books/Papers Strong K et al. Health in Rural and Remote Australia - the first report of the Australian Institute of Health and Welfare on Rural Health. Australian Institute of Health and Welfare, AIHW Cat No PHE 6.

PHAR 4651 Clinical Practice (Rural)

12 credit points. B Pharm (Rural). Session: Semester 2. Classes: 12 wk block rural placements 2 days/wk plus two 2 hr tut. Prerequisites: A pass in all second year units of study. Corequisites: PHAR4618 and PHAR4650. Assessment: Case assessment (75 per cent) and clinical placement assessment (25 per cent). Satisfactory performance in all areas of this unit of study is required.

This unit of study 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 As for PHAR 4621 Clinical Practice.

PHAR 4652 Pharmacotherapeutics in Rural Practice

6 credit points. B Pharm (Rural). Session: Semester 2. Classes: 2 hr lee and 4 hr tut/wk. Prerequisites: A pass in all second year units of study. Corequisites: PHAR4618. Assessment: Oral exam (40 per cent), case studies (30 per cent), quizzes (20 per cent) and tutorial participation (10 per cent). Satisfactory performance in all areas of this unit of study is required.

This unit of study continues on from Integrated Pharmacy Practice. Therapeutics lectures will be followed up with tutorials which will

be practice-based in order to illustrate specific practice situations. Therapeutics topics will be covered in great detail in order to understand how drugs affect different populations, how drugs are used in different situations and how specific drugs are chosen and the dosage regimen which is appropriate for that disease and individual patient. In addition, the ability to communicate such information in an appropriate manner will be discussed. The unit will expand the role of the pharmacist in monitoring therapeutic outcomes and participation in therapeutic decision-making and will enable students to assess and develop an individualised disease state management plan for a patient, effectively counsel and educate patients about medicines and disease state management, use and interpret the output of disease monitoring tools. Furthermore, students will become familiar with the professional code of ethics of pharmacy through case studies and be able to explain the ethical principles underpinning the code. Textbooks

Walker R, Edwards C (eds). Clinical Pharmacy and Therapeutics (2nd ed). Churchill Livingstone, 1999.

Rossi, S (ed). Australian Medicines Handbook. Adelaide: 2003. Herfindal ET, Gourley DR, Lloyd Hart L (eds). Clinical Pharmacy and Therapeutics, 2000

Manual of Use and Interpretation of Pathology Tests. Royal College of Pathologists of Australasia. (2nded), 1997. Kaplan A, Szabo L. Clinical Chemistry: Interpretation and Techniques (4th ed). Williams

andWilkins, 1994

PHAR 4653 Integrated Rural and Remote Health Care

6 credit points. B Pharm (Rural). Session: Semester 2. Classes: 4 hr tut or workshop or placement/wk, plus self-directed learning 2 hrs/wk. Prerequisites: A pass in all second year units of study. Corequisites: PHAR4618 and PHAR4650. Assessment: Oral presentations (40 per cent), portfolios (20 per cent), exam (40 per cent). This unit of study is undertaken in a rural setting, and aims for students to experience how other current and future health care practitioners operate in a rural or remote setting and to explore potential avenues for future co-operation and collaboration between such practitioners. Interdisciplinary tutorials will be held with other health care students at University Departments of Rural Health and visits will be organised to practice sites. Health promotion activities will be undertaken in the community.

PHAR 4927 Pharmaceutics Advanced 4A

6 credit points. B Pharm. Assoc Prof A McLachlan. Session: Semester 1. Classes: Seminar, tut/workshop, project/wk.

NB: Department permission required for enrolment.

Enrolment is by invitation only.

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 MPharm degrees. (Advanced students will also retain essentially all of the professionally based training of the Pass degree and complete in the same time.)

PHAR 4928 Pharmaceutical Chemistry Advanced 4A

6 credit points. B Pharm. Dr C C Duke. Session: Semester 1. Classes: Seminar, tut/workshop, project/wk. Assessment: Assignments, oral presentations, written reports. NB: Department permission required for enrolment.

Enrolment is by invitation only.

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 candid-ates for the PhD, MSc and MPharm 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.)

PHAR 4929 Pharmacy Practice Advanced 4A

6 credit points. B Pharm. Prof C Armour. Session: Semester 1. Classes: Seminar, tut/workshop/wk. Assessment: Assignments, oral presentations, written reports, exam. NB: Department permission required for enrolment. Enrolment is by invitation only.

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.)

PHAR 4930 Pharmaceutics Advanced 4B

18 credit points. B Pharm. Assoc Prof A McLachlan. Session: Semester 2. Classes: Seminar, tut/workshop, project/wk. Prerequisites: All Year 4 Semester 1 subjects at a credit level or better, including PHAR4927. Corequisites: PHAR4616. Assessment: Oral presentation, project/report, seminar attendance/reports, workshop attendance/contributions.

NB: Department permission required for enrolment. Discipline permission required for enrolment.

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 PHAR 4927 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.

PHAR 4931 Pharmaceutical Chemistry Advanced 4B

18 credit points. B Pharm. Dr C C Duke. Session: Semester 2. Classes: Seminar/project work/wk. Prerequisites: All Year 4 Semester 1 subjects at a credit level or better, including PHAR4928. Corequisites: PHAR4616. Assessment: Oral presentation, seminar attendance/reports, project/report. NB: Department permission required for enrolment. Discipling a partment permission required for enrolment.

Discipline permission required for enrolment.

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 PHAR 4928 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, hospital laboratories, research institutions and also for those considering continuation to postgraduate studies.

The seminar component of the course will assist in the development of advanced laboratory based research skills and will complement the research project. The individual research project planned in the first semester will be pursued. A final research presentation and report describing research results and conclusions is to be presented at the end of the year.

PHAR 4932 Pharmacy Practice Advanced 4B

18 credit points. B Pharm. Prof C Armour. Session: Semester 2. Classes: Semin-ar/tut/workshop, project/wk. Prerequisites: All Year 4 Semester 1 subjects at a credit level or better, including PHAR4929. Corequisites: PHAR4616. Assessment: Oral presentation, project/report, seminar attendance/reports. NB: Department permission required for enrolment.

Discipline permission required for enrolment.

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 PHAR 4929 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.

PHAR 4950 Pharmaceutics Advanced 4A - Rural

6 credit points. B Pharm (Rural). Assoc Prof A McLachlan. Session: Semester 1. Classes: Seminar, tut/workshop, project/wk. Assessment: Assignments, oral presentations, written reports.

NB: Department permission required for enrolment.

Enrolment is by invitation only.

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 MPharm degrees. The majority of this

unit of study will be conducted in a rural setting. (Advanced students will also retain essentially all of the professionally based training of the Pass degree and complete in the same time.) A limited number of students will be enrolled by invitation only.

PHAR 4951 Pharmaceutical Chemistry Adv 4A - Rural

6 credit points, B Pharm (Rural), Dr C C Duke, Session: Semester 1, Classes: Seminar, tut/workshop, project/wk. Assessment: Assignments, oral presentations, written reports. NB: Department permission required for enrolment.

Enrolment is by invitation only.

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 MPharm 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.)

PHAR 4952 Pharmacy Practice Advanced 4A - Rural

6 credit points. B Pharm (Rural). Prof C Armour. Session: Semester 1. Classes: Seminar, tut/workshop/wk. Assessment: Assignments, oral presentations, written reports, exam

NB: Department permission required for enrolment.

Enrolment is by invitation only.

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. The majority of this unit of study will be conducted in a rural setting. (Advanced students will also retain essentially all of the professionally based training of the Pass degree and complete in the same time.) A maximum of 14 students will be enrolled by invitation only.

PHAR 4953 Pharmaceutics Advanced 4B - Rural

18 credit points. B Pharm (Rural). Assoc Prof A McLachlan. Session: Semester 2. Classes: Seminar, tut/workshop, project/wk. Prerequisites: All Year 4 Semester 1 subjects at a credit level or better, including PHAR4950. Corequisites: PHAR4652. Assessment: Oral presentation, project/report, seminar attendance/reports, workshop attendance/contributions. NB: Department permission required for enrolment.

Discipline permission required for enrolment.

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 PHAR 4927 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. The majority of the project will be conducted in a rural setting.

PHAR 4954 Pharmaceutical Chemistry Adv 4B - Rural

18 credit points. B Pharm (Rural). Dr C C Duke. Session: Semester 2. Classes: Sem-inar/project work/wk. Prerequisites: All Year 4 Semester 1 subjects at a credit level numproject with with the requisites in the providence of the subjects at a creat or better, including PHAR4928. Corequisites: PHAR4652. Assessment: Oral presentation, seminar attendance/reports, project/report. NB: Department permission required for enrolment.

Discipline permission required for enrolment.

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 PHAR 4928 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, hospital laboratories, research institutions and also for those considering continuation to postgraduate studies.

The seminar component of the course will assist in the development of advanced laboratory based research skills and will complement

the research project. The individual research project planned in the first semester will be pursued. A final research presentation and report describing research results and conclusions is to be presented at the end of the year.

PHAR 4955 Pharmacy Practice Advanced 4B - Rural

18 credit points. B Pharm (Rural). Prof C Armour. Session: Semester 2. Classes: Seminar/tut/workshop, project/wk. Prerequisites: All Year 4 Semester 1 subjects at a credit level or better, including PHAR4929. Corequisites: PHAR4652. Assessment: Oral presentation, project/report, seminar attendance/reports. NB: Department permission required for enrolment.

Discipline permission required for enrolment.

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 PHAR 4929 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.

PSPC 2601 Physiology and Pharmacology A (Pharmacy) 6 credit points. B Pharm, B Pharm (Rural), UG Study Abroad Program. Assoc Prof S Carlie, Dr H Lloyd. Session: Semester 1. Classes: 4 lec/wk and 13 hrs prac/work-shop/tut. Prerequisites: CHEM 1611, CHEM 1612, BIOL (1001 or 1101 or 1901) and BIOL (1003 or 1903). Corequisites: BCHM 2613. Assessment: One 2 hr exam (70 per cent), one 1 hr mid-semester test (25 per cent), continuous assessment (5 per cent). 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 and respiration, 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 Textbooks

Sherwood L. Human Physiology: From Cells to Systems (5th ed). Thomson Brooks Cole, 2004.

Rang HP et al. Pharmacology (5th ed). Churchill Livingstone, 2003 Study aids

Neal MJ. Medical Pharmacology at a Glance (4th ed). Blackwell Science, 2002. Reference books

Cooper JR et al. The Biochemical Basis of Neuropharmacology (8th ed). Oxford, 2003. Hardman JG et al (eds). Goodman and Gilman's The Pharmacological Basis of Thera-peutics, (10th ed). McGraw-Hill, 2001.

PSPC 2602 Physiology and Pharmacology B (Pharmacy)

6 credit points. B Pharm, B Pharm (Rural), UG Study Abroad Program. Assoc Prof S Carlile, Dr H Lloyd. Session: Semester 2. Classes: 4 lec/wk and 13 hrs prac/work-shop/tut. Prerequisites: CHEM 1611, CHEM 1612, BIOL (1001 or 1101 or 1901) and BIOL (1003 or 1903). Corequisites: BCHM 2613 and PSPC 2601. Assessment: One 2 hr exam (70 per cent), one 1 hr mid-semester test (25 per cent), continuous assessment (5 per cent)

This unit of study is taught in conjunction by the Disciplines of Physiology and Pharmacology, and builds upon the understanding gained in PSPC 2601. 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 PSPC 2601 Physiology and Pharmacology A (Pharmacy).

3. Undergraduate degree regulations and policies

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit "<u>http://www.usyd.edu.au/handbooks/</u>" for the most current handbooks information.

This chapter contains the regulations governing undergraduate degrees throughout the University and the regulations governing undergraduate degrees offered by the Faculty of Pharmacy. The regulations governing postgraduate award courses can be found in Chapter 5. Students should also consult the University of Sydney (Coursework) Rule 2000 (<u>http://www.usyd.edu.au/handbooks/70 unicoursework-</u> rule.shtml).

Resolutions relating to the Bachelor of Pharmacy

Resolutions of the Senate: Bachelor of Pharmacy*

1. These Resolutions must be read in conjunction with the University of Sydney (Coursework) Rule 2000, which sets out the requirements for all coursework courses, and the relevant Faculty Resolutions.

2. Requirements for the Pass Degree

To qualify for the Pass Degree candidates must:

(a) complete successfully units of study giving credit for a total of 192 credit points; and

(b) satisfy the requirements of all relevant By-Laws, Rules and Resolutions of the University.

3. Requirements for the Honours Degree

To qualify for the award of the Honours Degree candidates must complete the honours requirements published in the Faculty Resolutions relating to the course.

* Enquiries about Faculty Resolutions should be directed to the Faculty Office.

4. Candidates enrolled in the Pass Degree before 1997

(1) A person who has enrolled as a candidate for the degree of Bachelor of Pharmacy before 1 January 1997 may complete the requirements for the degree in accordance with the resolutions in force at the time the candidate commenced that degree provided that the candidate completes the requirements for the degree by 31 December 2001 or such later date as the Dean of the Faculty may approve in special cases; and that if a unit of study specified in those resolutions is discontinued the Dean of the Faculty may permit the candidate to substitute a unit of study or units of study deemed by him or her to be equivalent to the discontinued unit of study.

(2) Where a candidate proceeding pursuant to subsection (1) fails to complete the requirements for the degree before 31 December 2001 the candidate shall complete the requirements for the degree under such conditions as may be determined from time to time by the Dean of the Faculty.

Resolutions of the Faculty: Bachelor of Pharmacy These resolutions must be read in conjunction with The University of Sydney (Coursework) Rule and the definitions appended to these Faculty resolutions.

Section 1

1. Admission

Admission to the BPharm course is based on: (a) Results of a Special Tertiary Admission Test (STAT)

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

2. Units of study

The units of study for the degree are set out in Table 1.

3. Requirements for the Pass degree

To qualify for the award of the Pass degree students must: (1) gain a minimum of 192 credit points by successfully completing all First Year, Second Year, Third Year and Fourth Year units of study as set out in Table 1. No more than 36 credit points shall be counted towards the degree total for units of study in which the grade PCON was awarded in accordance with (a) to (d) below.

(a) No more than 18 credit points at the First Year level shall be counted towards the degree total for units of study in which the grade of PCON was awarded;

(b) No more than 12 credit points at the Second Year level shall be counted towards the degree total for units of study in which the grade of PCON was awarded;

(c) No more than 6 credit points at the Third Year level shall be counted towards the degree total for units of study in which the grade of PCON was awarded; and

(d) No credit points at the Fourth Year level shall be counted towards the degree with the grade of PCON.

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

4. Requirements for Honours degree

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

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

The WAM is calculated by summing the products of the marks achieved and the weighted credit point values of the units of study taken in the degree and then dividing by the sum of the weighted credit points, with all attempts at units of study being included in the calculation, except where units of study are discontinued with permission. The formula is as follows:

 $WAM = I^{(W_c \times M_c)}$ E(wy

where Wc is the weighted credit point value - (ie, 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 Mc is the greater of 45 or the mark out of 100 for the unit of study.

(b)The degree will be awarded with the following grades:

- (i) First Class Honours: WAM of 80 or greater
- (ii) Second Class Honours, division I: WAM of 75-79
- (iii) Second Class Honours, division II: WAM of 70-74(iv) Pass degree
- (c) 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.
- (d) Honours will not normally be awarded to any student with a grade of F or AF in any unit of study.
- (e) 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.
- (f) 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 an average mark of 90 or greater in two Advanced units of study in the same stream. The decision to award a University Medal shall be made by the Faculty Honours Board of Examiners.
- (g) To be eligible for the grade of Honours from 2001, a student must successfully complete two Advanced units of study in the same stream.

Section 2

1. Enrolment in more/less than minimum load

- (1) In the first year of attendance candidates, unless granted credit in accordance with paragraph 9, shall enrol in all the First Year units of study listed in Table I.
- (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.
- (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 of fail or concessional pass.
- 2. Restrictions on enrolment
 - (1) Except with the permission of the Faculty, candidates may not take a Second Year unit of study until they have:
 - (a) gained credit for at least 24 credit points in First Year units of study; and
 - (b) 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 I.
 - (2) Except with the permission of the Faculty, candidates may not take a Third Year unit of study until they have:
 - (a) gained credit for at least 18 credit points derived from Second Year units of study; and
 - (b) 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 I, and all the First Year units of study.
 - (3) Except with the permission of the Faculty, candidates may not take a Fourth Year unit of study until they have:
 - (a) gained credit for at least 18 credit points derived from Third Year units of study; and
 - (b) 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 I, and all the Second Year units of study.
 - (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.
 - (5) The enrolment of candidates in units of study shall be limited by the exigencies of the timetable.

3. Time limit

Except with the permission of the Faculty, a candidate must complete the requirements for the award of the degree within ten calendar years of admission to candidature.

4. Suspension of candidature

- (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.
- (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 enrols in another course of tertiary study without prior permission of the Faculty.

5. Satisfactory progress/Show Cause

- (1) The Senate authorises the Faculty of Pharmacy to require a student to show good cause why he or she should be allowed to re-enrol in the degree of Bachelor of Pharmacy if in the opinion of the Faculty he or she has not made satisfactory progress towards fulfilling the requirements for the degree.
- (2) Satisfactory progress cannot be defined in all cases in advance, but a student who has not gained credit for 96 or more credit points shall be asked to show good cause why he or she should be allowed to re-enrol as a candidate for the degree of Bachelor of Pharmacy, if in any two successive years of attendance he or she fails in the first of these years to gain credit for 24 credit points and then fails to gain a total of 48 credit points in the two years of attendance, unless in one of these two years

he or she successfully completes all units of study attempted in that year.

(3) In cases where the Faculty permits the re-enrolment of a student whose progress has been deemed Unsatisfactory, the Faculty may require the completion of specified units of study in a specified time, and if the student does not comply with these conditions the student may again be called on to show good cause why he or she should be allowed to re-enrol in the degree of Bachelor of Pharmacy.

6. Repeating a unit of study

- (1) Where a student enrols in a unit of study which is the same as, or has a substantial amount in common with, a unit of study previously attempted but not completed at the grade of Pass or better, the Head of Department concerned may exempt the student from certain requirements of the unit of study if satisfied that the relevant competence has been demonstrated.
- (2) A student who has been awarded a Pass (Concessional) in a unit of study may repeat that unit but, if subsequently awarded a grade of Pass or better, no further credit points will be gained unless the unit of study previously had not been credited under Section 1 Paragraph 3(1)(a) to (d) above.

7. Assessment policy

- (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 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.
- (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.
- (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.
- (4) Candidates who do not pass in a unit of study shall, unless exempted by the Faculty, again attend lectures and other classes and complete the prescribed written and other work in all such units of study in which they are permitted to re-enrol.
- (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.
- (6) With the consent of the Faculty, additional assessment will only be permitted where:
 - (a) a specific case of special consideration has been approved by the Faculty; or
 - (b) a student in his or her final year has either failed a single fourth year unit of study or has received a single concessional pass in a fourth year unit of study in that year that prevents him or her from completing the degree.

8. Special Consideration

The Faculty of Pharmacy recognises that the performance of students may be adversely affected by illness or other misadventure, and makes provision for special consideration in such circumstances when examination results are considered. The Faculty intends only to make provision for performance in assessments affected by illness or misadventure, and such provision must not act to the disadvantage of other students.

Any student who believes that his or her performance has been or may be adversely affected by illness or misadventure may request the Faculty to give special consideration to the circumstances. Such a request must be made within one week of the occurrence and must be accompanied by an appropriate medical certificate or other relevant documentary evidence. Such certificates should state not only the nature of the illness or misadventure but also (where relevant) the opinion of the issuer as to the extent of the illness or misadventure involved. Where several requests for special consideration have been received from one student, the Faculty may require the student to obtain from the medical practitioner or other issuer of corroborating certificates more detail as to the precise extent of the illness or misadventure. In cases where the Faculty believes that other students may be adversely affected by the giving of special consideration, it may require the applicant to obtain a professional opinion from another source.

Any student who is subject to a chronic or recurrent illness or misadventure or who has been in need of, or undertaken counselling assistance should discuss the matter with a Departmental or Faculty Adviser, as appropriate.

Upon Faculty approval of special consideration the student will be required to undertake additional assessment. This additional assessment will replace any previous attempt.

- 9. Credit Transfer Policy
 - (1) Candidates who have previously completed studies which are considered by the Faculty to be equivalent to any unit of study listed in Table 1 may be given credit for that unit of study provided that:
 - (a) in the case of graduates, the total credit point value of the units of study so credited may not exceed 66;
 - (b) in the case of students who have completed units of study in another tertiary program without graduating and who have abandoned credit in that program for the units of study on the basis of which credit is sought, any number of units may be credited;
 - (c) the units of study were completed not more than nine years before admission to candidature in the Faculty.
 - (2) Candidates who have been given credit for units of study listed in the table, in accordance with section 9(1), shall be regarded as having completed such units of study for the purposes of these resolutions.

10. Candidates enrolled before 1997

- (1) A person who has enrolled as a candidate for the degree of Bachelor of Pharmacy before 1 January 1997 may complete the requirements for the degree in accordance with the resolutions in force at the time the candidate commenced that degree provided that the candidate completes the requirements for the degree by 31 December 2001 or such later date as the Faculty may approve in special cases. If a unit of study specified in those resolutions is discontinued, the Faculty may permit the candidate to substitute a unit of study or units of study deemed by the Faculty to be equivalent to the discontinued unit of study.
- (2) Where a candidate proceeding pursuant to 10(1) failed to complete the requirements for the degree before 31 December 2001, the candidate shall complete the requirements for the degree under such conditions as may be determined from time to time by the Dean.

Definitions

- For the purposes of these resolutions,
 - A unit of study shall consist of lectures together with such tutorial instruction, essays, exercises, assignments, fieldwork or practical work as may be prescribed.
 Each unit of study shall be designated as a First Year unit of
 - (2) Each unit of study shall be designated as a First Year unit of study, a Second Year unit of study, a Third Year unit of study or a Fourth Year unit of study, as shown in Table I.
 - (3) To complete a course and derivative expressions mean:(a) to attend the lectures and meetings, if any, for tutorial instructions;
 - (b) to complete satisfactorily the essays, exercises, assignments, field work and the practical work, if any, and;(c) to pass the examinations of the unit of study.
 - (4) A qualifying unit of study means a unit of study which, except with the permission of the Faculty, must be completed with the result of Pass or better (not PCON) before enrolment in the unit of study for which it qualifies.
 - (5) A prerequisite unit of study means a unit of study other than a qualifying unit of study which, except with permission of the head of department concerned, must have been completed with the result of PCON or better prior to a candidate enrolling in a unit of study for which it is a prerequisite.
 - (6) A corequisite unit of study which unless previously completed must, except with permission of the head of department concerned, be taken in the same academic year as the unit of study for which the Faculty has declared it a corequisite.

Resolutions relating to the Bachelor of Pharmacy (Rural)

Resolutions of the Senate: Bachelor of Pharmacy (Rural)*

1. These Resolutions must be read in conjunction with the University of Sydney (Coursework) Rule 2000, which sets out the requirements for all coursework courses, and the relevant Faculty Resolutions.

- 2. Requirements for the Pass Degree
- To qualify for the Pass Degree candidates must: (a) complete successfully units of study giving credit for a total
 - of 192 credit points; and (b) satisfy the requirements of all relevant By-Laws, Rules and
 - Resolutions of the University.

3. Requirements for the Honours Degree

To qualify for the award of the Honours Degree candidates must complete the honours requirements published in the Faculty Resolutions relating to the course.

* Enquiries about Faculty Resolutions should be directed to the Faculty Office.

Resolutions of the Faculty: Bachelor of Pharmacy (Rural)

These Resolutions must be read in conjunction with the University of Sydney (Coursework) Rule and the definitions appended to these Faculty resolutions.

Section 1

These matters require Academic Board approval in respect of new courses and major changes to courses and units of study.

1. Admission

Admission to the BPharm (Rural) course is based on:

(a) Results of the Special Tertiary Admissions Test (STAT);(b) NSW HSC Universities Admissions Index (UAI) or equivalent, or a tertiary studies record.

Under the Faculty of Pharmacy Rural Students Entry Scheme a limited number of quota places have been set aside for entry to the Bachelor of Pharmacy (Rural) 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.

Criteria for Admission to the BPharm(Rural) under the Faculty of Pharmacy Rural Students Entry Scheme

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) The applicant's UAI is not more than five points below the UAC main round cut off mark for the year of entry.
- (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).
- (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).
- (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).
- (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, Bachelors Degree or higher qualification recognised by the University of Sydney).
- (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.

This Scheme does not apply to any other undergraduate program offered by the Faculty of Pharmacy. 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

The units of study for the degree are set out in Table 2.

3. Requirements for the Pass degree

- To qualify for the award of the Pass degree students must:
 - (1) gain a minimum of 192 credit points by successfully completing all First Year, Second Year, Third Year and Fourth Year units of study as set out in Table 2. No more than 36 credit points shall be counted towards the degree total for units of study in which the grade PCON was awarded in accordance with (a) to (d) below.
 - (a) No more than 18 credit points at the First Year level shall be counted towards the degree total for units of study in which the grade PCON was awarded;
 - (b) No more than 12 credit points at the Second Year level shall be counted towards the degree total for units of study in which the grade PCON was awarded;
 - (c) No more than 6 credit points at the Third Year level shall be counted towards the degree total for units of study in which the grade PCON was awarded; and
 - (d) No credit points in the Fourth Year level shall be counted towards the degree with the grade of PCON.(2) satisfy the requirements of all other relevant By-Laws, Rules
 - (2) satisfy the requirements of all other relevant By-Laws, Rules and Resolutions of the University.

4. Requirements for the Honours Degree

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

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

The WAM is calculated by summing the products of the marks achieved and the weighted credit point values of the units of study taken in the degree and then dividing by the sum of the weighted credit points, with all attempts at units of study being included in the calculation, except where units of study are discontinued with permission. The formula is as follows:

$$WAM = \frac{\sum (W_c \times M_c)}{\sum (W_c)}$$

where Wc is the weighted credit point value (i.e. the product of the credit point value and the level of weighting of 1, 2, 3, 4 for first, second, third or fourth year unit of study respectively) and where Mc is the greater of 45 or the mark out of 100 for the unit of study.

- (b) The degree will be awarded for the following grades:
 - (i) First Class Honours: WAM of 80 or greater(ii) Second Class Honours, division I: WAM of 75-79
 - (iii) Second Class Honours, division II: WAM of 70-74(iv) Pass degree
- (c) 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.
- (d) Honours will not normally be awarded to any student with a grade of F or AF in any unit of study.
- (e) 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.
- (f) 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 an average mark of 90 or greater in two Advanced units of study in the same stream. The decision to award a University Medal shall be made by the Faculty Honours Board of Examiners.

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

Section 2

- 1. Enrolment in more/less than minimum load
 - (1) In the first year of attendance candidates, unless granted credit in accordance with paragraph 9, shall enrol in all the First Year units of study listed in Table 2.
 - (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.
 - (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 of fail or concessional pass.

2. Restrictions on enrolment

- (1) Except with the permission of the Faculty, candidates may not take a Second Year unit of study until they have:(a) gained credit for at least 24 credit points in First Year units of study; and
 - (b) completed the First Year units of study, if any, prescribed by the Faculty as qualifying units of study or prerequisites for the Second Year unit of study, as set out in Table 2.
- (2) Except with the permission of the Faculty, candidates may not take a Third Year unit of study until they have:
 (a) gained credit for at least 18 credit points derived from Second Year units of study, and
 - (b) 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 2, and all the first year units of study.
- (3) Except with the permission of the Faculty, candidates may not take a Fourth Year unit of study until they have:
 - (a) gained credit for at least 18 credit points derived from Third Year units of study, and
 - (b) completed all the Second Year units of study, and all the Third Year units of study, if any, prescribed as qualifying units of study or prerequisites for the Fourth Year unit of study, as set out in Table 2, and all the Second Year units of study.
- (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.
- (5) The enrolment of candidates in units of study shall be limited by the exigencies of the timetable.

3. Time limit

Except with the permission of the Faculty, a candidate must complete the requirements for the award of the degree within ten calendar years of admission to candidature.

4. Suspension of candidature

- (1) A candidate must re-enrol each calendar year unless the Faculty has approved suspension of candidature. Candidature lapses if the 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.
- (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 enrols in another course of tertiary study without prior permission of the Faculty.

5. Satisfactory progress/Show Cause

- (1) The Senate authorises the Faculty of Pharmacy to require a student to show good cause why he or she should be allowed to re-enrol in the degree of Bachelor of Pharmacy (Rural) if in the opinion of the Faculty he or she has not made satisfactory progress towards fulfilling the requirements of the degree.
- (2) Satisfactory progress cannot be defined in all cases in advance, but a student who has not gained credit for 96 or more credit

points shall be asked to show good cause why he or she should be allowed to re-enrol as a candidate for the degree of Bachelor of Pharmacy (Rural), if in any two successive years of attendance he or she fails in the first of these years to gain credit for 24 credit points and then fails to gain a total of 48 credit points in the two years of attendance, unless in one of these two years he or she successfully completes all units of study attempted in that year.

(3) In cases where the Faculty permits the re-enrolment of a student whose progress has been deemed unsatisfactory, the Faculty may require the completion of specified units of study in a specified time, and if the student does not comply with these conditions the student may again be called on to show good cause why he or she should be allowed to re-enrol in the degree of Bachelor of Pharmacy (Rural).

6. Repeating a unit of study

- (1) Where a student enrols in a unit of study which is the same as, or has a substantial amount in common with, a unit of study previously attempted but not completed at the grade of Pass or better, the Head of Department concerned may exempt the student from certain requirements of the unit of study if satisfied that the relevant competence has been demonstrated.
- (2) A student who has been awarded a Pass (Concessional) in a unit of study may repeat that unit but, if subsequently awarded a grade of Pass or better, no further credit points will be gained unless the unit of study previously had not been credited under Section 1 Paragraph 3(1)(a) to (d) above.

7. Assessment Policy

- (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 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.
- (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 a High Distinction, Distinction or Credit.
- (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.
- (4) Candidates who do not pass in a unit of study shall, unless exempted by the Faculty, again attend lectures and other classes and complete the prescribed written and other work in all such units of study in which they are permitted to re-enrol.
- (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.
- (6) With the consent of the Faculty, additional assessment will only be permitted where:
 - (a) a specific case of special consideration has been approved by the Faculty; or
 - (b) a student in their final year has either failed a single fourth year unit of study or has received a single concessional pass in a fourth year unit of study in that year that prevents him/her from completing the degree.

8. Special Consideration

The Faculty of Pharmacy recognises that the performance of students may be adversely affected by illness or other misadventure, and makes provision for special consideration in such circumstances when examination results are considered. The Faculty intends only to make provision for performance in assessments affected by illness or misadventure, and such provision must not act to the disadvantage of other students.

Any student who believes that his or her performance has been or may be adversely affected by illness or misadventure may request the Faculty to give special consideration to the circumstances. Such a request must be made within one week of the occurrence and must be accompanied by an appropriate medical certificate or other relevant documentary evidence. Such certificates should state not only the nature of the illness or misadventure but also (where relevant) the opinion of the issuer as to the extent of the illness or misadventure involved.

Where several requests for special consideration have been received from one student, the Faculty may require the student to obtain from the medical practitioner or other issuer of corroborating certificates more detail as to the precise extent of the illness or misadventure. In cases where the Faculty believes that other students may be adversely affected by the giving of special consideration, it may require the applicant to obtain a professional opinion from another source. Any student who is subject to a chronic or recurrent illness or misadventure or who has been in need of, or undertaken counselling assistance should discuss the matter with a Department or Faculty Adviser, as appropriate.

Upon Faculty approval of special consideration the student will be required to undertake additional assessment. This additional assessment will replace any previous attempt.

9. Credit Transfer Policy

- (1) Candidates who have previously completed studies which are considered by the Faculty to be equivalent to any unit of study listed in Table 2 may be given credit for that unit of study provided that:
 - (a) in the case of graduates, the total credit point value of the units of study so credited may not exceed 66;
 - (b) in the case of students who have completed units of study in another tertiary program without graduating and who have abandoned credit in that program for the units of study on the basis of which credit is sought, any number of units may be credited;
 - (c) the units of study were completed not more than nine years before admission to candidature in the Faculty.
- (2) Candidates who have been given credit for units of study listed in the table, in accordance with section 9(1), shall be regarded as having completed such units of study for the purposes of these resolutions.

10. Definitions

- For the purpose of these resolutions,
 - (1) A unit of study shall consist of lectures together with such tutorial instruction, essays, exercises, assignments, fieldwork or practical work as may be prescribed.
 - (2) Each unit of study shall be designated as a First Year unit of study, a Second Year unit of study, a Third Year unit of study or a Fourth Year unit of study, as shown in Table 2.
 - (3) To complete a course and derivative expressions mean:(a) to attend the lectures and meetings, if any, for tutorial instructions;
 - (b) to complete satisfactorily the essays, exercises, assignments, field work and the practical work, if any, and;(c) to pass the examinations of the unit of study.
 - (4) A qualifying unit of study means a unit of study which, except with the permission of the Faculty, must be completed with the result of Pass or better (not PCON) before enrolment in the unit of study for which it qualifies.
 - (5) A prerequisite unit of study means a unit of study other than a qualifying unit of study which, except with permission of the head of department concerned, must have been completed with the result of PCON or better prior to a candidate enrolling in a unit of study for which it is a prerequisite.
 - (6) A corequisite unit of study which unless previously completed must, except with the permission of the head of department concerned, be taken in the same academic year as the unit of study for which the Faculty has declared it a corequisite.

3. Undergraduate degree regulations and policies

4. Postgraduate degree requirements

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit "<u>http://www.usyd.edu.au/handbooks/"</u> for the most current handbooks information.

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 at the Faculty Office or in the Library, or on the web at ht-tp://www.usyd.edu.au/about/publication/pub/calendar.shtml (ht-tp://w w.usyd.edu.au/about/publication/pub/calendar.shtml).

Additional valuable resources for intending and current research students are the Postgraduate Research and Coursework Handbook 2005/06 <u>http://www.usyd.edu.au/fstudent/postgrad/study/pub/handbooks.shtml</u> (<u>http://www.usyd.edu.au/fstudent/postgrad/study/pub/handbooks.shtml</u>), published by the University of Sydney, *The Thesis Guide* and the *Survival Manual* published by SUPRA (Sydney University Postgraduate Representative Association).

Research degrees

Research degrees offered by the Faculty are:

- · Doctor of Philosophy
- Master of Pharmacy (Research)
- Master of Pharmaceutical Sciences
- · Graduate Diploma in Pharmaceutical Sciences

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 bachelors 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 be not less than three years
- the maximum period of part-time candidature is normally eight years.

Doctor of Philosophy degree resolutions See the University of Sydney Calendar

Master of Pharmacy (Research) - MPharm(Res)

Course code: PC080

This 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).

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 (eg pharmacology, chemistry or biochemistry) plus a Graduate Diploma in Pharmaceutical Sciences, or equivalent qualifications, acceptable to the Dean.

Master of Pharmaceutical Sciences (MPharmSc)

Course code: PC081

This degree is awarded on successful examination of a thesis based on original research. The Faculty offers a wide choice of research areas (see below).

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 (e.g. pharmacology, chemistry or biochemistry) plus a Graduate Diploma in Pharmaceutical Sciences, or equivalent qualifications, acceptable to the Dean.

Graduate Diploma in Pharmaceutical Sciences (GradDipPharmSc)

Course code: PF000

The Graduate Diploma in Pharmaceutical Sciences is a one year full-time program available with specialisation in Pharmaceutical Chemistry, Pharmaceutics or Pharmacy Practice. The course is essentially the same as an Honours program in these discipline areas.

GradDipPharmSc courses are designed to extend the Pharmacy or health science undergraduate's knowledge and skills, and to introduce students to research methodology. This provides a basis for those who wish to do a PhD, MPharmSc or MPharm. Courses may also be chosen to give appropriate additional training for those seeking employment in pharmaceutical industry, as well as government or hospital laboratories.

Units of study may be taken in Pharmaceutical Chemistry, Pharmaceutics or Pharmacy Practice and constitute about one third of the overall program in terms of time and assessment. The units of study are designed to develop knowledge and understanding in more specialised areas corresponding to the expertise of various members of staff and to provide background and support for individual research projects.

The remainder of the GradDipPharmSc course is devoted to the research work as part of a project. Within the first few weeks of com-

Current areas of research in the Faculty of Pharmacy

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.

(i) Pharmaceutical Chemistry

Research in the Pharmaceutical Chemistry group has two broad directions: drug discovery and lead optimisation and biological mechanisms of drug action.

Drug Discovery and Lead Optimisation

Natural products

- Quality assurance and analysis of herbal medicinal products and Chinese medicines and their components
- Development of therapeutic products from plants in hyperlipidemia and diabetes based on traditional knowledge
- Isolation of bioactive substances from selected plants, their identification and evaluation as potential drugs or research tools
- Syntheses of natural products and analogues and the use of structure-activity relationships in drug design

Cancer

- Mechanisms of P-glycoprotein mediated drug transport in cancer chemotherapy: role of flavonoids as potential modulators
- Multi-drug resistance in cancer therapy: cell-cell contact and apoptosis
- Application of molecular computation to interaction of the antimitotic agent paclitaxel, and a range of natural product antimitotics including the epothilones, taxuspines and sarcodictyins, with the biological target tubulin

Neuropharmacology/Neuroscience

- Role of the small GTP binding protein RalA in endocytosis/exocytosis of neurotransmitters, neuronal cell function and as potential drug target
- Development of drugs interacting with GABA and nicotine receptors, from natural products and synthetic chemistry
- Design and synthesis of conformational^ restricted GABA and nicotine analogues.

Rational Drug Design using molecular modelling studies on taxanes and microtubule inhibitors

- · Construction of 3D models for the structures of target proteins
- 3D-Quantitative structure activity relationships
- Virtual screening technology development

Mechanisms of Drug Action Neuropharmacology/Neuroscience

- Neuropharmacology of ligand-gated ion channels, with particular emphasis on GABAC and nicotinic receptors
- GABA release in the thalamus and regulation by GABA and its analogs

Herbal Medicines

- Evaluation of Herb-Drug Interactions; development of a database and in vitro and clinical studies
- Mode of action of anti-inflammatory, cardioavascular and CNS herbal components on receptors (Vanilloid TRPV1, PPAR), enzymes (COX--1 and -2, glucosidase) and drug metabolism (hyperphorin and CYP450s)

Calcium Regulation and Cell Signalling

- The role of calcium translocating ATPases in regulating calcium levels in cells
- Role of protein kinases in vanilloid receptor sensitisation/desensitisation
- · Application of fluorescent probes in protein traffic

Molecular Computational Studies

• interaction of the protein phosphatase calcineurin and the immunophilin proteins FKBP12 and Cyclophilin A.

Molecular Mechanisms in Inflammation

- Transcriptional and post-transcriptional regulation of cytokine and cell cycle protein gene expression
- Mast cell and airway smooth muscle cell interactions in asthma
- Herbal medicines as modulators of inflammation
- Integrins, inflammation and cancer
- Mechanisms of action of sphingosine 1-phosphate, a biologically active sphingolipid, on cell migration, growth and synthetic function

(ii) 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: pharmacokinetics and pharmacogenomics research and advanced drug delivery. Projects deal with the pharmacokinetics and biotransformation of drugs in different tissues, with emphasis on factors that influence inter-subject variations, to the formulation and delivery of new drugs that are currently in development by the biotechnology industry. Research in the discipline of Pharmaceutics is directly primarily at the optimal use and delivery of pharmaceutical agents in individuals.

The importance of patient genetics on drug elimination kinetics, drug safety and drug action is now being actively explored. Projects dealing with individualised drug dosage and drug selection have been initiated and take into account allelic variation in human biotransformation enzymes that can determine rates of drug elimination. How disease can impact on these processes is under investigation, including altered gene expression and function in cancer of the prostate and other tissues. Complementary projects on drug-drug and herb-drug pharmacokinetic interactions are also in place and are currently providing new information on the mechanisms underlying these interactions. Therapeutic drug monitoring approaches are taken in conjunction with these projects on population and individual pharmacokinetics and utilise modern analytical methods.

The increasing use of biopharmaceuticals, such as growth factors, hormones, enzymes, therapeutic antibodies and sub-unit vaccines provides a challenge in formulation and delivery in order to maximise therapeutic potential. The often short half-lives of protein drugs, low oral bioavailability and suboptimal targetting limit their effectiveness as therapies. Further, presentation of particular proteins at the cell surface enables therapeutic strategies in tissue engineering and wound healing. These new areas of research in the faculty complement the existing expertise in aerosolisation and pulmonary delivery of drugs.

Advanced Pharmaceutics Project Titles 2004

- Human CYP pharmacogenetics and optimisation of anti-cancer drug therapy
- Regulation of human genes that control cell survival against toxic stimuli
- Rational use of antipsychotic therapy from an understanding of patient genetics
- · Mechanisms of clozapine-mediated cellular injury
- Metabolism of model CYP substrates in prostate tissue
- Population Pharmacokinetic Analysis of anti-cancer agents and anti-infectives
- · Physiologically based Pharmacokinetic Modelling
- · In vivo and in vitro microdialysis
- Warfarin-Herb Drug interactions
- Pharmacokinetics of liposomal amphotericin B in children
- Ethnic difference in drug response
- · Mechanisms of herbal products as inducers of human CYPs

- · Improving the oral delivery of proteins
- Design, formulation and characterisation of 3D, cell-support matrices for tissue engineering
- · Matrix devices for sustained drug delivery
- · Retention of enzyme activity in colloid-based delivery systems
- Optimisation of aerosol delivery of drugs

(iii) Pharmacy Practice

Pharmacy Practice 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.

Cellular research in asthma is centered 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.

Implementing change in 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. Professional delivery of S2/S3 products, CMI and medicines information via other sources eg internet, clinical interventions reporting, Home Medicines Review (HMR) for the elderly and in specific diseases, adherence support, disease state management services in asthma, anticoagulation, diabetes, hypercholesterolemia, heart failure and chronic pain are all subjects of active research projects in the Faculty. Screening and health promotion for diabetes, cardiovascular disease and osteoporosis are other types of pharmacy services undergoing development and evaluation. In addition to new services, novel forms of service delivery are also being investigated e.g. 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.

Assuring the Quality Use of Medicines (QUM) in the institutional setting is also a key focus of research activity. Examples of research include drug use reviews, clinical therapeutic drug monitoring, the role of drug committees and the impact of clinical services in the hospital setting.

Advanced Pharmacy Practice Project Titles 2002

- · Factors affecting medication adherence in heart and lung transplant recipients
- Factors affecting the recruitment and retention of pharmacists
- to practice sites in rural and remote areas of New South Wales • Human airway smooth muscle GM-CSF release: mechanism of
- potentiation by serum • Evaluating the implementation of ICD-10-AM pharmacy codes into a hospital system
- · Pharmacists' use of online health information and their search strategies: a pilot study
- Medication adherence in Type 2 Diabetes
- An extended role for the pharmacist in the provision of continuity of care: a hospital perspective
- · Impact of a peer-led asthma education program on asthma knowledge, confidence and skills
- The effect of growth factors on airway smooth muscle GM-CSF release
- · Videoconferencing in telepharmacy: a needs-based assessment
- The assessment of metered dose inhaler technique in patients
- · Factors affecting compliance with lipid lowering therapy
- · Content analysis of case conference meetings between general practitioners and pharmacists to discuss domiciliary medication management reviews

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 2005/06 http://www.usyd.edu.au/fstudent/postgrad/study/pub/handbooks.shtml (ht-

tp://www.usyd.edu.au/fstudent/postgrad/study/pub/handbooks.shtml) for the most current and detailed advice.

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) and printed on acidfree or permanent paper.
- The thesis shall be accompanied by a certificate from the supervisor stating whether in the supervisor's opinion the form of 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's degree

- · Similar formal requirements exist for the presentation of Master's 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
- Master of Pharmacy (Clinical)
 Graduate Diploma in Clinical Pharmacy
- Graduate Certificate in Clinical Pharmacy

Results

For all coursework programs, the following mark ranges apply:

| HD | High Distinction | 85 - 100 |
|------|------------------------|----------------|
| D | Distinction | 75-84 |
| CR | Credit | 65-74 |
| Р | Pass | 50-64 |
| R | Satisfied requirements | |
| PCON | Pass (Concessional) * | 46-49 |
| F | Fail | Below 46 or 50 |
| AF | Absent Fail | |

* For Pass (Concessional) a maximum of 18 credit points (first year units of study), 12 credit points (second year) and 6 credit points (third year) may be counted towards the degree.

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 the following admission requirements:

- Bachelor's degree in any discipline (particularly science, health science, medical science or similar). Entry to the program is competitive and applicants are required to have achieved at least a credit weighted average mark (above 65 percent) in their prior undergraduate degree.
- Successful performance at admission interview with Faculty staff
- Completion of the seven prequisities for the course biology, chemistry, mathematics, statistics, biochemistry, physiology and pharmacology.
- Psychology and microbiology are desirable, but not essential.

Conditional entry and bridging studies may be available where candidates do not completely satisfy the prerequisites. Where candidates are offered conditional entry they must complete their outstanding prerequisites by the end of the first year of study. Conditional entry will only be offered where applicants meet a minimum of five of the seven essential prerequisites.

Fees

The course is offered on a fee-paying basis only. The fee for 2006 for local students is \$24,480 and for international students \$31,680. Australian citizens are eligible to apply for FEE-HELP (not available to Permanent Residents). Please note that course fees are subject to annual increases of approximately 5 percent.

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 should be read by all intending candidates (see Chapter 5). 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 3 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 Pharmacisit. 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. (02) 9281 7736, fax (02) 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 de-

signed 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 dipensers of complementary medicine and Chinese medicine, medical practitioners, science graduates and professionals who would like to specialise in herbal medicines manufactoring, government regulation and research.

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 expand their knowledge and skills necessary for work in manufacturing, teaching and the research areas of herbal medicines.

Admission requirements

The basic entry requirement is a bachelors 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 carry out literature searches, excursions, assignments and 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 Master's Pass degree, with an additional 12 credit points to qualify for the Master's 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 and half to three years. The Graduate Certificate in Herbal Medicines is to be taken over one to two 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 Master's 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:

| Program | Credit points required | Minimum time for completion | Maximum time for completion |
|--|------------------------|-----------------------------|-----------------------------|
| Master of Herbal Medi- cines | 48 | 1 year | 2 years |
| Master of Herbal Medi- cines (Honours)* | 60 | 1.5 years | 2.5 years |

| Graduate Diploma in Herbal Medicines | 36 | 1 year | 1.5 years |
|---|---------------------------|-----------------------------|-----------------------------|
| Graduate Certificate in Herbal Medicines | 24 | 0.5 year | 1 year |
| Summary of require | ments for'pai | rt-time study: | |
| Program | Credit points required | Minimum time for completion | Maximum time for completion |
| Master of Herbal Medi- cines | 48 | 2 years | 4 years |
| Master of Herbal Medi- cines (Honours)* | 60 | 2.5 years | 4 years |
| Graduate Diploma in Herbal Medicines | 36 | 1.5 years | 3 years |
| | | 1 year | 2 years |

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

Flexibility between courses

This is a fully embedded program. The Graduate Certificate, Graduate Diploma are linked to the Masters degree. Candidates enrolled in the Masters 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 -Thursday, and the elective units of study offered Monday - 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 70 per cent 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 a Dissertation is subject to availability of staff and laboratory space.

| Unit of study | Core | Recommended ** | Recommended ** Elective and Stream | | |
|--|------|----------------|------------------------------------|--|--|
| | | MHM (Clinical) | MHM (In- dustry/Dispensing) | | |
| | Se | mester 1 | | | |
| HERB5550 Integrat- ive Herbal Thera- peutics | | 6* | 6 | | |
| HERB5551Botany and Herbal Chem- istry | 6 | | | | |
| HERB5552 Herbal Pharmacology | 6 | | | | |
| HERB5553 Herbal Regulation and Dis- pensing | | 6 | 6 | | |
| HERB5554 Chinese Medicine and Mater- ia | | 6 | | | |

| Semester 2 | | | |
|---|----|----|----|
| HERB5555 Herbal Pharmaceutics and Analysis | | | 6 |
| HERB5556 Herbal Toxicology | 6 | | |
| HERB5557Pharma- cognoscy | | | 6 |
| HERB5558 Clinical Evaluation and Monographs | 6 | | |
| HERB5559 Chinese Herbal Formulas and Processing | | 6 | |
| HERB5560 Disserta- tion (12 credit points) | | | |
| Other approved electives (6 credit points)** | | | |
| Total | 24 | 24 | 24 |

* Refers to credit point value. One credit point requires around 1.5 to 2 hour per week face to face and self directed study, and is equivalent to approximately 0.5 to 0.75 hours per week face to face teaching.

** At least 50% of total credit points earned should be from core units. Flexibility is allowed for electives, however there are recommended electives for each stream, as shown.

*** Students have the option of selecting a unit of study from another discipline within the University, or from another University, subject to approval by the Course Coordinator.

An elective unit of study may not be offered if a certain enrolment number is not reached.

Fees

These courses are fee paying and are not HECS funded. Australian citizens are eligible to apply for FEE-HELP. The total fee for 2006 is \$16,800 (\$350 per credit) for local students and \$24,000 (\$500 per credit) for international students. The research Dissertation for the Honours component will attract an extra fee of 12 credit points in addition to the above standard fees. This figure is based on the assumption that the units of study required for a particular semester and the "standard" number of semesters of course work have been successfully completed - if less/more semesters are required for the completion of the programs, the fee will be adjusted accordingly. All course fees are subject to annual increases of approximately 5 percent.

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 Medicine degree resolutions

See Chapter 5.

Postgraduate coursework programs in Clinical Pharmacy

NB: From 2006, the Clinical Pharmacy coursework programs will not be offered to new students. The information in this handbook is relevant for continuing students only. Master of Pharmacy (Clinical)

(MPharm(Clin) - Course code PC031

Graduate Diploma in Clinical Pharmacy

(GradDipClinPharm) - Course code PF003 Graduate Certificate in Clinical Pharmacy (GradCertClinPharm) - Course code PG001

The Master of Pharmacy (Clinical), Graduate Diploma in Clinical Pharmacy and Graduate Certificate in Clinical Pharmacy are designed to provide practicing Pharmacists with postgraduate training that will extend their clinical knowledge and skills, and expand their professional practice. These programs are available to both local and international students. However, international students are not eligible for part-time study and must enroll full-time.

Note for international students : These courses do not lead to registration for the practice of Pharmacy in Australia. Pharmacists with degrees from overseas who wish to become registered in Australia should contact the Australian Pharmacy Examining Council (APEC), email: registrar@apec.asn.au, phone +612 6247 5088.

Awards in Clinical Pharmacy and course structure

A summary of requirements for the clinical pharmacy awards follows:

| Program | Hours of coursework per week * | Credit points | Requirements | Minimum time for completion |
|--|--------------------------------------|---------------|--|-----------------------------------|
| Master of Clinical Pharmacy (Full- time) ** | 24 | 48 | Completion of all course- work (24cp) plus research project (24cp) | 1 year |
| Master of Clinical Pharmacy (Part- time) | 8 | 48 | Completion of all course- work, plus research project | 3 years |
| Graduate Diploma in Clinical Phar- macy (Full-time) | 18 | 36 | Completion of all course- work (24cp), plus clinical placements (12cp) | 1 year |
| Graduate Diploma in Clinical Phar- macy (Part-time) | 8 | 36 | Completion of all course- work (24cp), plus clinical placements (12cp) | 2 years |
| Graduate Certific- ate in Clinical Pharmacy (Part- time only) | 8 | 24 | Combination of coursework and clinical placement | 1.5 years |

* Additional time is required to complete assignments, clinical placements and research projects.

Table 5 outlines the units of study which comprise the Clinical Pharmacy program for remaining students. Units of study previously offered may be taken with Faculty approval.

Flexibility between courses

In 2006, students may change from the Graduate Diploma to the Graduate Certificate or from the Master's to the Graduate Diploma. No candidate will be permitted to change to the Master's program.

Clinical Pharmacy degree resolutions

See Chapter 5.

Table 3: Master of Pharmacy degree

| Unit of Study | | CP A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition | | Session |
|---------------|----------------------------------|---|--|-------------|
| Year | L. | | | |
| PHAR 5513 | Pharmaceutical Chemistry 1A | 6 | | Semester 1 |
| PHAR 5514 | Pharmaceutics 1A | 6 | | Semester 1 |
| PHAR 5515 | Pharmaceutical Science | 6 | | Semester 1 |
| PHAR 5516 | Pharmaceutical Chemistry IB | 6 | P (PHAR5513 and PHAR5515) or PHAR5501 | Semester 2 |
| PHAR 5517 | Pharmaceutics IB | 6 | P PHAR5514 and PHAR5515 | Semester 2 |
| PHAR 5518 | Pharmacy Practice Ml | 6 | | Semester 2 |
| PHAR 5505 | Clinical Residency 1 | 12 | PPHAR5518 orPHAR5504 | S2 Late Int |
| Year 2 | 2 | | | |
| PHAR 5506 | Pharmaceutical Chemistry 2A | 6 | PPHAR5516 or (PHAR5501 and PHAR5503) | Semester 1 |
| PHAR 5507 | Dispensing Practice | 6 | P PHAR5517 or (PHAR5501 and PHAR5503) | Semester 1 |
| PHAR 5508 | Pharmacotherapeutics (Masters) A | 6 | P (PHAR5518 and PHAR5505) or (PHAR5502 and PHAR5504) | Semester 1 |
| PHAR 5509 | Integrated Pharmaceutics | 6 | P PHAR5517 or PHAR5503 | Semester 2 |
| PHAR 5510 | Pharmacotherapeutics (Masters) B | 6 | P PHAR5508 | Semester 2 |
| PHAR 5511 | Elective Stream | 6 | | Semester 2 |
| PHAR 5512 | Clinical Residency 2 | 12 | P PHAR5508 and PHAR5510 | S2 Late Int |

Table 4: Postgraduate coursework programs in Herbal Medicine

| Unit of | Study | СР | A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition | Session |
|--------------|--|----|--|---------------------------|
| HERB 5550 | Integrative Herbal Therapeutics | 6 | | Semester 1 |
| HERB 5551 | Botany and Herbal Chemistry | 6 | | Semester 1 |
| HERB 5552 | Herbal Pharmacology | 6 | | Semester 1 |
| HERB 5553 | Herbal Regulation and Dispensing | 6 | | Semester 1 |
| HERB 5554 | Chinese Medicine and Materia Medica | 6 | | Semester 1 |
| HERB 5555 | Herbal Pharmaceutics and Analysis | 6 | | Semester 2 |
| HERB 5556 | Herbal Toxicology | 6 | | Semester 2 |
| HERB 5557 | Pharmacognosy | 6 | | Semester 2 |
| HERB 5558 | Clinical Studies and Monographs | 6 | | Semester 2 |
| HERB 5559 | Chinese Herbal Formulas and Processing | 6 | | Semester 2 |
| * For Ma | aster of Herbal Medicines (Honours) only | | | |
| HERB 5560 | Dissertation | 12 | Q To be eligible to apply for the Dissertation students need an average weighted mark of at least 70% 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. NB: Department permission required for enrolment. | Semester 1, Semester 2 |

| Table 5: | Postgraduate | coursework programs in | Clinical Pharmacy |
|----------|--------------|------------------------|-------------------|
| | | | |

| Study | CP A: Assumed knowledge P: Prerequisites Q: Qualifying C: Corequisites N: Prohibition | Session |
|----------------------|--|---|
| Research Project A | 8 | Semester 2, Semester 1 |
| Research Project B | 8 | Semester 1, Semester 2 |
| only) | | |
| Research Project C | 8 | Semester 2, Semester 1 |
| Clinical Placement A | 2 | Semester 1, Semester 2 |
| Clinical Placement B | 10 | Semester 1, Semester 2 |
| Clinical Placement C | 4 | Semester 1, Semester 2 |
| | Research Project A Research Project B only) Research Project C Clinical Placement A Clinical Placement B | Research Project A 8 Research Project B 8 only) |

** units of study offered in the Master of Herbal Medicines are also available to clinical pharmacy students

Units of study

HERB 5550 Integrative Herbal Therapeutics

6 credit points. Grad Cert Clin Pharm, Grad Cert H M, Grad Dip Clin Pharm, Grad Dip H M, M Herb Med, M Pharm (Clin), PG Coursework Exchange. Sension: Semester 1 Classes: Lectures 4 hrs/wk for 8 wks; tutorials and assignments, 2 hrs/wk for 5 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 hy-

pertension, hyperlipidemia, diabetes, asthma, rheumatism, cancer, 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), including disease and health concepts, diagnostic methods, treatment principles and herbal treatment methods.

Textbooks

Quick Access, Professional Guide to Conditions, Herbs & Supplements, Integrative Medicine Communications. 2000.

Meacher Communications, 2000.
Braun L & Cohen M. Herbs & Natural Supplements - An Evidence-based Approach.
Sydney: Elsevier-Mosby, 2004.
Bumental M (Ed), Herbal Medicine. Expanded Commission E Monographs. Texas:
American Botanical Council, 2000.
Mills S & Bone K, Principles and Practice of Phytotherapy - Modern Herbal Medicine,
London: Churchill Livingstone, 2000.
Crimum Mean Medice Medicer Herbal, Surman, Meanhart Book Commun. 1072.

Grieves M (1st pub 1931), A Modern Herbal, Surrey, Merchant Book Company, 1973.

HERB 5551 Botany and Herbal Chemistry

6 credit points. Grad Cert Clin Pharm, Grad Cert H M, Grad Dip Clin Pharm, Grad Dip H M, M Herb Med, M Pharm (Clin), PG Coursework Exchange. Session: Semester 1. Classes: 4 hrs/wk for 12 wks; tutorials, assignments, practical work 2 hrs/wk for 5 wks. Assessment: Examinations (50%), assignments (25%), practical work (25%). Outline (Module 1): "Medicinal botany" is the study of the structure, morphology and taxonomy of medicinal plants. It encompasses the origin, morphology and structure of medicinal plants using the knowledge and methodology of botany which relates to the development of resources 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 to meet the demand of the community. Topics in this unit of study will include: Part one-Microscopic structure of plants: Cells of plants; Tissues of plants; Structure of plant organs. Part two - Morphology of plant organs: Roots; Stems; Leaves; Flowers; Fruits and seeds. Part three - Classification of plants: Introduction to families of medicinal plants; Part four - Botanical Latin.

Outline (Module 2): "Chemistry of herbal medicines" comprises the study of extraction and isolation, 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. Topics in this unit of study will include: Introduction- Extraction, isolation and structure determination, Carbohydrates and glycosides, Coumarins, Flavanoids, Alkaloids, Terpenoids and essential oils, Sterols, Saponins, Methodology in the study of bioactive components. Textbook:

Raven PH, Evert RF, Eichhorn SE. Biology of Plants. W.H. Freeman-Worth Publishers, 1999

1999. Robinson L. Field Guide to the Native Plants of Sydney. Kangaroo Press, 1998. Lassak EV, McCarthy T. Australian Medicinal Plants. Reed Books, 1997. Robbers JE, Speedie JE, and Tyler VE, Pharmacognosy and Pharmabiotechnology. Williams & Wilkins, Lea & Febiger, 1996. Evans W C . Trease and Evans Pharmacognosy (14th Ed). London: WB Saunders, Vooc

1996

HarborneJB.Phytochemical Methods: a Guide to Modern Techniques of Plant Analysis (3rd Ed). Chapman & Hall, 1998

HERB 5552 Herbal Pharmacology

6 credit points. Grad Cert Clin Pharm, Grad Cert H M, Grad Dip Clin Pharm, Grad Dip H M, M Herb Med, M Pharm (Clin), PG Coursework Exchange. Session: Semester 1. Classes: Lectures 4 hrs/wk for 8 wks; tutorials, assignments, practical work 2 hrs/wk for 5 wks. Assessment: Examinations (50%), assignments (25%), practical work (25%). "Pharmacology of herbal medicines" is the study of the function and mechanism of action of herbal medicines with modern scientific methods. The objectives of pharmacology of herbal medicines 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 understand the underlying hattle 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 herba relation to traditional theories and classification of herbs. Textbooks

Rang HP, Dale MM, Ritter JM. Pharmacology (4th Ed). Edinburgh: Churchill Livingstone, 1999.

stone, 1999. Braun L & Cohen M, Herbs & Natural Supplements - An Evidence-based Approach. Sydney: Elsevier-Mosby, 2004. Montvale N.J. PDR for Herbal Medicines. Medical Economic, 1998. Anderson LA, and Phillipson JD. Herbal Medicines: A Guide for Health-Care Profes-sionals. Pharmaceutical Publishing Co, 2002. Chang HM and But PPH. Pharmacology and Applications of Chinese Materia Medica Vol 1- 2. World Scientific, 1996.

HERB 5553 Herbal Regulation and Dispensing

6 credit points. Grad Cert Clin Pharm, Grad Cert H M, Grad Dip Clin Pharm, Grad Dip H M, M Herb Med, M Pharm (Clin), PG Coursework Exchange. Session: Semester 1. Classes: Lectures 4 hrs/wk for 8 wks; tutorials, assignments, practical work 2 hrs/wk for 5 wks. Assessment: Examinations (50%), assignments (25%), practical work (25%). Governments' role is to actively evaluate and facilitate the rational use of herbal medicines that have been scientifically proven to be safe and effective for specific indications. This requires developing the legal guidelines for the use of herbal medicines. Legislation concerning procedures for the registration of herbal medicines are required to ensure that medicinal preparations are of acceptable quality, safety and efficacy. 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; Regulation systems in overseas countries; GMP of herbal manufacturing; Dispensing and quality management of herbal medicines. . Textbooks

Guidelines for the appropriate use of herbal medicines. World Health Organisation,

Eskinazi D, Blumenthal M, Farnsworth N, Riggins CW, Liebert MA. Botanical Medicine: Efficacy, Quality Assurance and Regulation, 1999. Stone J and Matthews J. Complementary medicine and the law. Oxford University

Press, 1996. Therapeutic Goods Regulations, Australian Government Publishing Service. Canberra: March 1995

HERB 5554 Chinese Medicine and Materia Medica

6 credit points. Grad Cert Clin Pharm, Grad Cert H M, Grad Dip Clin Pharm, Grad Dip 6 credit points. Grad Cert Clin Pharm, Grad Cert H M, Grad Dip Clin Pharm, Grad Dip H M, M Herb Med, M Pharm (Clin), PG Coursework Exchange. Session: Semester 1. Classes: Lectures 4 hrs/wk for 12 wks; tutorials, assignments, practical work 2 hrs/wk for 5 wks. Assessment: Examinations (50%), assignments (25%), practical work (25%). Outline (Module 1): "Chinese Medicine" is the basic theory of Chinese medicine which includes the classical theory of Yin and Yang and the Five Elements, The Zang-Fu Organs, Qi, Blood, Fluid, the Meridians and Collaterals, pathogenic factors which are used to explain the structure, physiology and pathogenic changes, factors causing diseases of the human body. "Basic Chinese medicine" includes basic theory and its application in the four diagnosis methods, pattern differentiation methods, treatment principles and methods. Topics in this unit of study will include: Part one - Basic theory: Yin and Yang and the Five Elements; The Zang-Fu Organs; Qi, Blood, Fluid; Meridians and Collaterals; Pathogenic factors. Part two Pattern differentiation and treatment: Four diagnosis methods; Eight principals of pattern differentiation; Syndromes of Qi and Blood; Syndromes of Zhang-Fu; Syndromes according to pathogenic factors; Febrile diseases; Principles and methods of treatment; Eight methods of treatment.

Outline (Module 2): "Materia medica" is the study of basic theory of Chinese materia medica and the origin, collection, property function and clinical application of Chinese herbs. Topics in this unit of study will include: Part one - Introduction: Properties of Chinese herbs; Four Properties and Five Flavours, Ascending and Descending, Floating and Sinking, Channel Tropism; Application of Chinese herbs; Compatibility, contraindication and dosage. Part two - Categories of materia medica.

Textbooks Maciocia G.The Foundations of Chinese Medicine. Churchill Livingstone. 1989.

Advanced Text Book of Traditional Chinese Medicine and Pharmacology, Vol 1, State Administration of Traditional Chinese Medicine. New World Press, 1995. Liu Y, Liu Z. Basic Theory of Traditional Chinese Medicine. ,Academy Press. (Xue Yuan) 1998.

Bensky D, Gamble A. Chinese Herbal Medicine: Materia Medica. Seattle: Eastland

Press, 1993.

Advanced Text Book of Traditional Chinese Medicine and Pharmacology, Vol 2, State Advanistration of Traditional Chinese Medicine, New World Press, 1995. He X, Zhou J, Yuan X. The Chinese Materia Medica. Xue Yuan: Academy Press, 1998.

HERB 5555 Herbal Pharmaceutics and Analysis

6 credit points. Grad Cert Clin Pharm, Grad Cert H M, Grad Dip Clin Pharm, Grad Dip H M, M Herb Med, M Pharm (Clin), PG Coursework Exchange. Session: Semester 2. **Classes:** Lectures 4 hrs/wk for 8 wks; Tutorials, assignments, practical work 2 hrs/wk for 5 wks. Assessment: Examinations (50%), assignments (25%), practical work (25%). Outline (Module 1): "Pharmaceutics 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. Topics in this unit of study will include: Quality assurance in manufacturing; Raw materials; Extraction, isolation, concentration and drying; Powders, granules, capsules and tablets; Liquid formulations; Gels, creams and ointments; Other dosage forms; Formulation stability; Biopharmaceutics; Prescription and dispensing of herbal medicines.

Outline (Module 2): "Analysis of herbal medicines" is the study of methods of chemical analysis, qualitative and quantitative analysis of chemical components, chemical analysis of formulations. Topics in this unit of study will include: Analytical methodology for identification of herbs (chromatographic fingerprints obtained by HPLC and TLC), theory and practical demonstrations; Use of mass spectrometry and NMR for identification of individual components; Contaminants (heavy metals, radioactivity); Validation of analytical methods; Case studies in herbal analysis. Textbooks

List PH, Schmidt PC. Phytopharmaceutical Technology. Boca Raton: CRC Press Inc, 1989.

Martin A N. Physical Pharmacy. Lea & Febiger, 1993.

Ansel H C. Introduction to Pharmaceutical Dose Forms. Lea & Febiger, 1985. Aulton M E (ed). Pharmaceutics: The Science of Dosage Form Design. Churchill Livngstone, 1988

Watson D G. Pharmaceutical Analysis, Churchill Livingstone. London, 1999.

Wagner H, Bladt S, Zgainski EM. Plant Drug Analysis. Berlin: Springer-Verlag, 1984. Quality Control Methods for Medicinal Plant Materials, Geneva : World Health Organ-1998 zation

Witchtl M, Herbal Drugs and Phytochemicals, translated by N Bisset. 1994.

HERB 5556 Herbal Toxicology

6 credit points. Grad Cert Clin Pharm, Grad Cert H M, Grad Dip Clin Pharm, Grad Dip H M, M Herb Med, M Pharm (Clin), PG Coursework Exchange. Session: Semester **Classes:** Lectures 4 hrs/wk for 8 wks; tutorials, assignments 2 hrs/wk for 5 wks. Assessment: Examinations (50%), assignments (25%), practical work (25%).

"Safety and toxicology of herbal medicines" 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 in-clude: Mechanisms of toxicity; Toxicological testing; Toxicity of plants; Adverse reactions; Report mechanism for adverse reactions; Contraindications and interactions with pharmaceutical drugs; Scheduling of pharmaceutical and herbal medicines; List of toxic herbs.

Textbooks

Textbooks Klaasen CD, Amdur MO & Doull J (eds).Casarett & Doull (eds). Toxicology: the Basic Science Of Poisons, (5th edn), McGraw-Hill. 1996. McGuffin M, Hobbs C, Upton R, Goldberg A, American Herbal Products Association's Botanical Safety Handbook, (eds). Boca Raton: CRC Press, 1997. Wallace Hayes A (ed). Principles and methods of toxicology (3rd edn). 1994. Brinker F. Herb Contraindications and Drug Interactions (2nd edn). Sandy, Oregon: Eclectic Medical Publications, 1998.

HERB 5557 Pharmacognosy

6 credit points. Grad Cert Clin Pharm, Grad Cert H M, Grad Dip Clin Pharm, Grad Dip H M, M Herb Med, M Pharm (Clin), PG Coursework Exchange. Session: Semester 2. Classes: 4 hrs/wk for 8 wks; tutorials, assignments, practical work 2 hrs/wk for 5 wks.

Assessment: Examinations (50%), assignments (25%), practical work (25%). "Pharmacognosy" is the study of herb identification and quality of herbs and development of new herbal resources. It utilises experience of traditional medicine and theory and methods of modern sciences such as botany, zoology, and chemistry. It studies the origin, characteristics, microscopic characters, and chemical components, physical and chemical properties of herbal medicines to ensure the quality of herbal materials and develop new herbal resources. Topics in this unit of study will include: Part one - Introduction: The objectives of pharmacognosy; The history of pharmacognosy; The harvesting, processing and storage of herbs; Herb identification methods. Part two - Individual herbs: Common herbs of Chinese, European, Indian and other origin.

Textbooks

Evans WC, Saunders WB. Trease and Evans Pharmacognosy (14th Ed). London: 1996. Montvale, N J. PDR for Herbal Medicines. Medical Economic, 1998.

HERB 5558 Clinical Studies and Monographs

6 credit points, Grad Cert Clin Pharm, Grad Cert H M, Grad Dip Clin Pharm, Grad Dip H M, M Herb Med, M Pharm (Clin), PG Coursework Exchange. Sension: Semester 2 Classes: Lectures 4 hrs/wk for 12 wks; tutorials, assignments, practical work 2 hrs/wk for 5 wis. Assessment: Examinations (50%), assignments (25%), practical work (25%). Outline. (Module 1): "Evaluation of clinical studies". The amount of scientific and clinical literature on herbal medicines 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.

Outline (Module 2): "Herbal monographs" 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. Lewith G, Jonas WB, Walach H. Clinical Research in Complementary Therapies,

Lewith G, Jonas WB, Walach H. Clinical Research in Complementary Therapies, Principles, Problems and Solutions. Churchill Livingstone, 2002. DeAngelis C. An Introduction to Clinical Research. Oxford University Press. Iber FL, Riley WA, Murray PJ. Conducting Clinical Trials. Plenum Medical Book Company, 1989. Montvale NJ, PDR for Herbal Medicines. Medical Economic, 1998. Braun L & Cohen M. Herbs & Natural Supplements - An Evidence-based Approach. Svdpav: Fleavier Mochy. 2004

Sydney: Elsevier-Mosby, 2004. Anderson LA & Phillipson JD. Herbal Medicines: A Guide for Health-Care Professionals. Pharmaceutical Publishing Co, 2002.

Monographs on the Medicinal Uses of Plant Drugs, European Scientific Cooperative on Phytotherapy. ZhuY. Chinese Materia Medica, Chemistry, Pharmacology, and Applications.

HERB 5559 Chinese Herbal Formulas and Processing

6 credit points. Grad Cert Clin Pharm, Grad Cert H M, Grad Dip Clin Pharm, Grad Dip H M, M Herb Med, M Pharm (Clin), PG Coursework Exchange. Session: Semester 2. Classes: Lectures 4 hrs/wk for 12 wks; tutorials, assignments, practical work (25%).

Outline (Module 1): "Formulary of Chinese Medicine". 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. Topics in this unit of study will include: Part one - Introduction: Formation of a formula; Principles of forming a prescription, modification of a prescription; Dosage forms of a formula; Methods of decoction and administration. Part two - Categories of Chinese formulae.

Outline (Module 2): "Processing of Chinese Medicine" is a subject dealing with the theory, history 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. In part one, the history and origin of processing, basic theory and knowledge and research progress will be discussed. In part two biological origin and properties and action of typical herbs will be covered, with emphasis on the processing methods, characterisation of finished products, function of processing and research on processing.

Textbooks

Barolet R & Bensky D. Chinese Herbal Medicine Formulae and Strategies. Eastland Press 1990

Advanced Text Book of Traditional Chinese Medicine and Pharmacology, Vol 2, State Administration of Traditional Chinese Medicine, New World Press, 1995. Li Q, Liu Z, Jian Y. Formulae of Traditional Chinese Medicine. Academy Press (Xue Yuan), 1998

Sionneav P. Pao Zhi: An Introduction to the Use of Processed Chinese Medicinals. Stomeav F. Pao Zhi, An Introduction to the Use of Processed Chinese Medicinals. Blue Poppy Press, 1995. Whitten G. Herbal Harvest-Commercial Production of Quality Dried Herbs in Australia.

Agmedia, 1997

HERB 5560 Dissertation

12 credit points. M Herb Med (Hons). Session: Semester 1, Semester 2. 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. Assee ment: Research and dissertation of up to 20,000 words, or as a manuscript (approx. Asses 3500 words). The manuscript should match the style and content of a nominated journal. The dissertation or manuscript should be bound and will be sent to two examiners appointed by the Faculty. NB: Department permission required for enrolment.

To be eligible to apply for the Dissertation students need an average weighted mark of at least 70% 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.

PHAR 5016 Clinical Placement A

2 credit points. M Pharm (Clin). Session: Semester 1, Semester 2. Classes: 8 hrs/semester. Assessment: Oral case presentation - 40%, written case presentation -30%, preceptor feedback - 30%.

In this unit of study students will be introduced, through tutorials and clinical placement, to patient case notes and to the hospital setting if they are not already familiar with the Australian health care system. They will be rquired to follow up and research at least one patient and his/her disease state(s) and to present this case to pharmacists at the hospital and at the University.

PHAR 5017 Clinical Placement B

10 credit points. M Pharm (Clin). Session: Semester 1, Semester 2. Classes: 38 hrs/semester. Assessment: Oral case presentation - 30%, written case presentation -

10%, preceptor feedback - 30%, portfolio of clinical cases - 30%. Following on from Clinical Placement A, students will undertake a placement with a clinical specialist pharmacist and will be expected

to participate in any clinical activities, such as ward rounds or case conferences. Each student will be required to follow up and research at least four patients, to keep a portfolio of these cases (including medication reviews when indicated) and present at least one case to their specialist pharmacist and academic pharmacists at the Universitv.

PHAR 5018 Clinical Placement C

4 credit points. M Pharm (Clin). Session: Semester 1, Semester 2. Classes: 16 hrs/semester. Assessment: Oral case presentation - 30%, written case presentation -10%, preceptor feedback - 30%, portfolio of clinical cases - 30%.

Clinical Placement C is optional and may be undertaken instead of PHAR5006 Statistics and PHAR 5105 Research Methods. Following on from Clinical Placement A, students will undertake a placement with a clinical specialist pharmacist and will be expected to participate in any clinical activities, such as ward rounds or case conferences. Each student will be expected to follow up and research at least three patients, to keep a portfolio of these cases (including medication reviews when indicated) and present at least one case to their specialist pharmacist and to academic pharmacists at the University.

PHAR 5103 Research Project B

8 credit points. M Pharm (Clin). Session: Semester 1, Semester 2. Assessment: Protocol presentation (100%).

Students are assisted with the development of their individual research projects for completion of their thesis. On completion of this unit, each student will have prepared a written proposal for their research project.

PHAR 5104 Research Project C

8 credit points. M Pharm (Clin). Session: Semester 2, Semester 1. Assessment: Re-Students will complete the writing of the research thesis/project.

PHAR 5106 Research Project A

8 credit points. M Pharm (Clin). Session: Semester 2, Semester 1. Assessment: Liter-ature review (100%).

The methods available to carry out Pharmacy Practice research will be explored and the protocol for your research project designed.

The research project will be carried out following development of the protocol. The research and thesis preparation will be conducted over three semesters (minimum) - seven semesters (maximum).

PHAR 5505 Clinical Residency 1

12 credit points. M Pharm. Dr Beata Bajorek. Session: S2 Late Int. Classes: presented primarily as off-campus experiential placements with on-campus tutorials once weekly. **Prerequisites:** PHAR5518 or PHAR5504. Assessment: continuous assessment via skill-based competencies (30%), tutorial participation (30%), oral presentation (20%), reflective diary (10%), and preceptor assessment (10%).

This unit of study integrates the information and skills developed in Pharmacy Practice MI or Introduction to Professional Practice and Pharmacotherapeutics and Health Care 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 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 (cardiovascular, respiratory, endocrinology). Additionally, students will attend weekly tutorial sessions (on-campus) that will enable them to demonstrate various communication skills in a group setting, focusing on the delivery of drug information to both patients and professionals.

PHAR 5506 Pharmaceutical Chemistry 2A 6 credit points. M Pharm. Dr A Ammit. Session: Semester 1. Classes: 6 hr lect, selfdirected learning or workshops/wk. **Prerequisites**: PHAR5516 or (PHAR5501 and PHAR5503). **Assessment:** 3 hrl exam (50%), Structure based design laboratory (15%), Drug action workshop I (20%), Drug action workshop II (15%).

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 neurological 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.

PHAR 5507 Dispensing Practice

6 credit points. M Pharm. Erica Sainsbury. Session: Semester 1. Classes: Presented on campus as lectures, workshops and practical classes. Prerequisites: PHAR5517 or (PHAR5501 and PHAR5503). Assessment: 2 practical exams, 1 written exam, continuous practical assessment.

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.

PHAR 5508 Pharmacotherapeutics (Masters) A

6 credit points. M Pharm. Betty Chaar. Session: Semester 1. Classes: Presented on campus as lectures and tutorials. **Prerequisites**: (PHAR5518 and PHAR5505) or (PHAR5502 and PHAR5504). Assessment: Tutorial participation and written exam. This unit of study will cover:

Therapeutics: Students will cover core therapeutics topics in terms of epidemiology, pathophysiology, signs and symptoms, and the drug and nondrug management. The unit of study will also explore the role of pharmacists in conducting medication regimen reviews and interprofessional communication.

Pharmacotherapeutics: Lectures will be followed up with tutorials that will be practice-based in order to illustrate specific practice situations. Therapeutics topics will be covered in great detail in order to understand how drugs affect different populations, how drugs are used in different situations and specific drugs are chosen and the dosage regimen that is appropriate for that disease and individual patient. In addition, the ability to communicate such information in an appropriate manner will be discussed. The therapeutics topics to be covered in this unit include cardiovascular and respiratory medicine. The unit of study will expand the role of the pharmacist in monitoring therapeutic outcomes, and in participating in therapeutic decision-making.

Textbooks

Therapeutic Guidelines. Therapeutic Guidelines Ltd, North Melbourne, VIC. Latest Rossi S. (ed). Australian Medicines Handbook. 2006. Walker R, Edwards C (eds). Clinical Pharmacy and Therapeutics (3rd edn). 2003.

PHAR 5509 Integrated Pharmaceutics

6 credit points. M Pharm. Dr Mano Chetty. Session: Semester 2. Classes: 4hr per week workshops; 2 hours per week self-directed learning. **Prerequisites:** PHAR5517 or PHAR5503. Assessment: Oral presentation (15%), open book examination(50%), group assignment (35%).

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 Shargel L, Wu-Pong S, Yu ABC. Applied Biopharmaceutics and Pharmacokinetics (5th edn). 2005. Ansel HC, et al. Pharmaceutical Dosage Forms and Drug Delivery Systems (7th edn).

Lea & Febiger, 1999

PHAR 5510 Pharmacotherapeutics (Masters) B

6 credit points. M Pharm. Dr Kylie Williams. Session: Semester 2. Classes: Presented on campus as lectures and tutorials. Prerequisites: PHAR5508. Assessment: Tutorial contribution and written exam.

Pharmacotherapeutics lectures will be followed up with tutorials that will be practice-based in order to illustrate specific practice situations. Therapeutics topics will be covered in great detail in order to understand how drugs affect different populations, how drugs are used in different situations and specific drugs are chosen and the dosage regimen that is appropriate for that disease and individual patient. In addition, the ability to communicate such information in an appropriate manner will be discussed. The unit of study will expand the role of the pharmacist in monitoring therapeutic outcomes, and in participating in the apeutic decision-making. Textbooks

Therapeutic Guidelines. Therapeutic Guidelines Ltd, North Melbourne, VIC. Latest editions.

Kossi S. (ed). Australian Medicines Handbook. 2006.
Walker R, Edwards C (eds). Clinical Pharmacy and Therapeutics (3rd edn). 2003.

PHAR 5511 Elective Stream

6 credit points. M Pharm. Dr K Williams. Session: Semester 2. Classes: Presented on campus as lectures, workshops and tutorials.

Students can tailor their learning by can choosing up to 6 credit points from the Master of Herbal Medicine on offer in the Faculty of Pharmacy.

PHAR 5512 Clinical Residency 2

12 credit points. M Pharm. Dr Beata Bajorek. Session: S2 Late Int. Classes: Presented 12 credit points. M Pharm. Dr Beata Bajorek. Session: S2 Late Int. Classes: Presented primarily as off-campus experiential placements with on-campus tutorials. **Prerequisites:** PHAR5508 and PHAR5510. Assessment: Medication reviews (45%), preceptor assess-ment (20%), reflective diary (20%), additional medication reviews or elective-placement project (depending on placement allocation) (15%).

This unit of study will provide students with the opportunity to enhance their knowledge and skill base in an experiential setting. Each student will complete 2 two-week block placements, one in July and one in November. In addition, students will be given an intensive short course on medication management review before commencing placements. The placement site will provide an excellent opportunity for students to gain practice skills and information gathering skills, and to apply prior knowledge from the core therapeutic areas of previous semesters.

PHAR 5513 Pharmaceutical Chemistry 1A

6 credit points. M Pharm. Dr Jane Hanrahan. Session: Semester 1. Classes: 2 hr lect/wk, 1 hr tut/wk, 15 hr self-directed learning/wk, 3 hr lab/workshop/fortnight. Assessment: 3 hr exam (60%); laboratories & workshops (40%).

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

PHAR 5514 Pharmaceutics 1A

6 credit points. M Pharm. Dr Nenad Petrovic. Session: Semester 1. Classes: 5 x 1 hr sessions/wk and 1 hr tut/wk. Assessment: 2 x 1.5 hr exams (60%) and 4 quizzes (40%). 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; Monoexponential pharmacokinetics; Non-compartmental pharmacokinetics; Moment analysis; Drug distribution; IV Infusion kinetics; Multiexponential pharmacokinetics; Kinetics following extravascular doses; Bioavailability/Bioequivalence; Drug clearance mechanisms; Renal clearance; Hepatic clearance; Metabolite kinetics; Nonlinear pharmacokinetics; Multiple dose kinetics; Pharmacodynamics and Dose regimen design.

Additional basic pharmacokinetic theory and its application to clin-ical 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.

PHAR 5515 Pharmaceutical Science

6 credit points. M Pharm. Dr Nerida Cole. **Session:** Semester 1. **Classes:** 2 hr lect/wk, 2 hr self-directed learning/wk, 4 hr workshop/wk. **Assessment:** 2 x 1.5hr exams (60%), learning portfolio (10%), quiz (10%), workshop (20%).

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, aseptic manufacture and preservation of pharmaceutical products. These concepts will be further explored in workshop formats. *Textbaoks*

Textbooks Watson DG. Pharmaceutical Analysis (2nd edn). Churchill Livingston, 2005. Ansel HC, et al. Pharmaceutical Dosage Forms and Drug Delivery Systems (7th edn). Lea &Febiger, 1999.

Auton ME, Pharmaceutics: The Science of Dosage Form Design (2nd edn). Churchill Livingston, 2002.

PHAR 5516 Pharmaceutical Chemistry IB

6 credit points. M Pharm. Dr Brett Church. Session: Semester 2. Classes: 15 hr lect/wk, 1 hr tut/wk, 1 hr self-directed learning/wk, 2.5 hr lab/wk. **Prerequisites**: (PHAR5513 and PHAR5515) or PHAR5501. Assessment: 2 x 15 hr exams (30% each), laboratories & workshops (40%).

This unit of study utilises the knowledge gained in PHAR5513 Pharmaceutical Chemistry 1A to develop an 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 computer based structure activity and herbal medicine practicals, and prepare a herbal monograph further developing skills including critical thinking, the use of information technology and report writing.

Textbooks Foye WO. et al. Principles of Medicinal Chemistry (5th edn). Williams & Wilkins, 2002.

PHAR 5517 Pharmaceutics IB

6 credit points. M Pharm Dr Paul Young. Session: Semester 2. Classes: 4 hr/wk lect and tut; 3 hr/wk prac for 8 weeks. Prerequisites: PHAR5514 and PHAR5515. Assessment: Pracs, Minor exam and Final exam.

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. 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 Ansel HC. et al. Pharmaceutical Dosage Forms and Drug Delivery Systems (7th edn). Lea&Febiger, 1999. Aulton ME. Pharmaceutics: The Science of Dosage Form Design (2nd edn). Churchill

Aulton ME. Pharmaceutics: The Science of Dosage Form Design (2nd edn). Churchill Livingston, 2002.

PHAR 5518 Pharmacy Practice MI

6 credit points. M Pharm. Dr Kylie Williams. Session: Semester 2. Classes: Presented as lectures, workshops, tutorials and externships. Assessment: Continuous, written, oral and externship assessments.

This unit of study will include an overview and history of the profession of pharmacy, future directions in Pharmacy practice, professional ethics, health care systems and the role of pharmacy, therapeutics and patient perspectives on health and illness. Verbal and written skills are developed in the context of professional pharmacy issues. This unit of study will explore the role of pharmacists in implementing clinical interventions and inter-professional communication.

Textbooks Therapeutic Guidelines. Therapeutic Guidelines Ltd, North Melbourne, VIC. Latest editions.

Rossi S. (ed). Australian Medicines Handbook. 2006.

Walker R, Edwards C (eds). Clinical Pharmacy and Therapeutics (3rd edn). 2003.

5. Postgraduate degree regulations

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit "<u>http://www.usyd.edu.au/handbooks/"</u> for the most current handbooks information.

Resolutions of the Senate

These Resolutions must be read in conjunction with the University of Sydney (Coursework) Rule 2000 as amended.

Master of Pharmacy (Research)

1. An applicant for admission as a candidate for the degree of Master of Pharmacy shall:

- (a) be a Bachelor of Pharmacy of the University of Sydney with first or second class Honours in that branch of Pharmaceutical Science in which the candidate seeks to pursue candidature or hold qualifications which are deemed by the Dean of the Faculty to be equivalent; and
- (b) pass a preliminary examination, unless the candidate is a Bachelor of Pharmacy of the University of Sydney with first or second class Honours or is exempted by the Dean of the Faculty; and
- (c) apply during the first semester of candidature for the approval of the Dean of the Faculty of the topic of a thesis.
- After admission by the Dean of the Faculty a candidate shall:

 (a) not less than one year after passing the preliminary examination nor less than six months after approval of the topic of the thesis, lodge a thesis embodying the results of an original investigation by the candidate;
 - (b) if required by the examiners, pass an examination in the branch or branches of Pharmaceutical Science to which the topic of the thesis relates.

3. The Dean of the Faculty shall appoint a member of the staff of the University to act as supervisor to the candidate.

4. (1) A candidate shall submit to the Faculty three copies of the thesis, typewritten and bound according to University requirements.

(2) The candidate shall state in the thesis, generally in a preface and specifically in notes, the sources from which the information was derived, the extent to which the work of others has been used, and the portion of the thesis claimed as original.

5. The Dean 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.

6. The degree shall not be conferred in the case of a Bachelor of Pharmacy with first or second class Honours, until the candidate is a graduate of one year's standing and in the case of any other candidate until the candidate is a graduate of two years' standing, except with the approval of the Dean of the Faculty.

Master of Pharmacy (Clinical)

Eligibility for admission

- An applicant for admission to candidature for the degree shall:

 have successfully completed a Pharmacy degree and an honours or diploma course; or
 - (2) have successfully completed a Pharmacy degree and have a minimum of three years experience as a pharmacist, subject to approval by the Dean of the Faculty; or
 - (3) hold qualifications which are deemed by the Dean of the Faculty to be equivalent to those referred to in subsection (1) or (2).

Availability

2. (1) Admission to candidature may be limited by a quota. In determining the quota the University will take into account:

- (a) availability of resources
- (b) availability of adequate and appropriate supervision.
- (2) In considering an application for admission the Dean of the Faculty shall take into account the quota and entrance shall be based on the applicants who are most meritorious in terms of section 1.

Method of progression

- 3. (1) A candidate for the degree shall proceed by completing units
- of study and a project as prescribed by the Faculty of Pharmacy. (2) A unit of study shall consist of lectures, seminars, tutorial in
 - struction, essays and practical work as prescribed.(3) In these resolutions to complete a unit of study means:
 - (a) to attend lectures, tutorials and seminars;(b) to complete satisfactorily the essays, exercises and practical work;
 - (c) to pass the examinations of the unit of study;
 - (d) to prepare either a research thesis or manuscript and pass the examination of this thesis or manuscript.

Time limits

4. A candidate proceeding on a part-time basis shall complete the requirements for the degree not earlier than the end of the sixth semester and not later than the end of the tenth semester, unless otherwise determined by the Faculty.

5. A Candidate proceeding on a full-time basis shall complete the requirements for the degree not earlier than the end of the second semester and not later than the end of the fourth semester, unless otherwise determined by the Faculty.

Requirements for the degree

- 6. Candidates for the degree are required to complete satisfactorily:
 - (1) 24 credit points covering new material to the candidate, selected from units of study satisfying the conditions approved by the Faculty, and
 - (2) a supervised research project worth 24 credit points.

Examination

7. On completion of the requirements for the degree, the Board of Postgraduate Studies shall determine the results of candidature, on the recommendation of the Dean of the Faculty.

Progress

- 8. The Dean of the Faculty may:
 - 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
 - (2) where the candidate does not show good cause, terminate the candidature.

Credit

9. A candidate who, before admission to the candidature, has spent time in graduate study and has completed coursework, within the previous 5 years except with permission of the Dean, considered by the Faculty to be equivalent to units of study prescribed by the degree, may receive credit of up to 24 credit points towards the requirements for the degree.

Master of Pharmaceutical Sciences

1. (1) The Dean of the Faculty may admit to candidature for the degree of Master of Pharmaceutical Sciences an applicant who:

- (a) is a graduate of the University of Sydney; and
 - (b) has, in the opinion of the Dean of the Faculty, reached a first or second class Honours standard:
 - (i) in the final year of an Honours course for either the degree of Bachelor of Science or the degree of Bachelor of Pharmacy or the degree of Bachelor of Medical Science
 - (ii) in a course considered by the Dean of the Faculty to be equivalent to a course referred to in subsection (i), or has, in some other manner, acquired a standard of knowledge considered by the Dean of the Faculty to be equivalent to a first or second class Honours standard in a course referred to in subsection (i).
- (2) Notwithstanding subsection (1), the Dean of the Faculty may admit a person to candidature for the degree whose qualifica-

tions are deemed by him or her to be equivalent to those referred to in subsection (1).

2. Subject to the approval of the Dean of the Faculty, a candidate for the degree shall elect to proceed either as a full-time or as a part-time candidate.

3. (1) A candidate shall not present for examination for the degree earlier than two semesters after commencement of candidature.

- (2) Except with the permission of the Faculty, a full-time candidate shall complete the requirements for the degree not later than four semesters after the commencement of candidature.
- (3) Except with the permission of the Faculty, a part-time candidate shall complete the requirements for the degree not later than eight semesters after the commencement of candidature.

4. Time spent by a candidate in advanced study in the University of Sydney before admission to candidature may be deemed by the Faculty to be time spent after such admission.

5. (1) The Dean of the Faculty shall appoint a full-time member of the academic staff or research staff of the University to act as supervisor of each candidate. Where the supervisor is a member of the research staff, the Dean of the Faculty shall also appoint a member of the full-time academic staff as associate supervisor. Any person so appointed as associate supervisor must be capable of acting as supervisor in the event that the supervisor is no longer able to act.

- (2) The Dean of the Faculty shall where appropriate appoint a full-time member of the academic staff of the University or other appropriately qualified person to act as associate supervisor.
- (3) The supervisor shall report annually to the Dean of the Faculty on the progress towards completion of the requirements for the degree of each candidate under his or her supervision.
- (4) The Dean of the Faculty may terminate the candidature of any candidate who in his or her opinion has not shown evidence of sufficient progress.

6. (1) A candidate shall:

- (a) carry out an original investigation on a topic approved by the Dean of the Faculty;
- (b) write a thesis embodying the results of this investigation and state in the thesis generally in a preface and specifically in notes, the sources from which the information was taken, the extent to which the work of others has been used, and the proportion of the thesis claimed as original;
- (c) lodge with the Faculty three copies of the thesis, typewritten and bound according to University requirements;
- (d) if required by the examiners, sit for an examination in the branch or branches of science to which the thesis relates.
- (2) 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.
- (3) The Dean 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.
- (4) The examiners shall report to the Dean of the Faculty, who shall determine the result of the examination.
- (5) A candidate may not present as the thesis any work which has been presented for a degree or diploma at this or another tertiary institution, but the candidate shall not be precluded from incorporating such work in the thesis, provided that in presenting the thesis the candidate indicates the part of the work which has been so incorporated.
- (6) The Faculty shall lodge one copy of the thesis with the Librarian if the degree is awarded.

Master of Herbal Medicines

Eligibility for admission

1. Except as provided in chapter 10 of the by-laws**, the Faculty may admit to candidature an applicant who has successfully completed a bachelors degree in Pharmacy, Medicine, Nursing, Chinese Medicine, Complementary Medicine, Science, Veterinary Science, Agriculture or other appropriate disciplines from approved universities or who have equivalent qualifications subject to approval by the Dean.

**Chapter 10 of the by-laws has been repealed and Part 9, section 47 of the University of Sydney (Amendment Act) Rule 1999 refers.

Availability

- 2. Admission to candidature may be limited by a quota.
 - (i) In determining the quota the Faculty will take into account:
 (a) availability of resources,
 - (b) availability of adequate and appropriate supervision.
 - (ii) In considering an application for admission the Dean will take into account the quota and entrance will be based on the applicants who are most meritorious in terms of section (i) above.

Probationary admission

3. A candidate will be accepted by the Faculty on a probationary basis for a period of six months.

- (i) Upon completion of this probationary period the Faculty shall review the candidate's work and shall either confirm the candidate's status, extend the probation for one semester or terminate the candidature.
- (ii) In the case of a candidate accepted on a probationary basis under section (i), the candidature shall be deemed to have commenced from the date of such acceptance.

Enrolment

4. A student must be enrolled in each semester in which he or she is actively completing the requirements for the award course.5. 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.

Discontinuation of enrolment

6. A candidate who wishes to discontinue enrolment from the Master of Herbal Medicines 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:

- (i) that the discontinuation occurred at an earlier date; and
- (ii) that there was good reason why the notification could not be made at the earlier time.

7. A discontinuation of enrolment may be recorded as Withdrawn (W) or Discontinued - Not to count as failure (DNF) where that discontinuation occurs within the time-frames specified by the University and published by the Student Centre, or where the student meets other conditions as specified by the Faculty.

Suspension of candidature

- 8. A candidate who wishes to suspend their candidature must apply, in writing, to the Faculty.
 - (i) The application must be received by the Faculty prior to the commencement of the relevant semester.
 - (ii) 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.
 - (iii) Late applications may be considered at the Faculty's discretion.
 - (iv) 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) where that application is received within the timeframes specified by the University and published by the Student Centre, or where the student meets other conditions as specified by the Faculty.

9. 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. A student must enrol in the semester following a period of approved suspension.

11. A student whose candidature has lapsed must apply for re-admission in accordance with procedures determined by the Faculty.

Satisfactory progress pursuant to the University of Sydney (Coursework) Rule 2000

12. The Faculty may

(i) on the recommendation of the head of the discipline concerned, 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 (ii) where, in the opinion of the Faculty, the candidate does not show good cause, terminate the candidature.

Method of progression

13. A candidate for the degree shall proceed by completing Units of Study as prescribed by Faculty.

- (i) A unit of study shall consist of lectures, tutorials, assignments, practical work and supervised research as may be prescribed.
- (ii) Successful completion of a unit of study requires candidates to:
 - (a) formally enrol in the unit of study and pay associated tuition fees, if any; and
 - (b) attend lectures, tutorials, practical sessions, seminars, web forums or conduct research, if any; and
 - (c) satisfactorily complete assignments, practical work, treatise or dissertations, if any; and
 - (d) pass the written and practical examinations of the unit of study, if any.

Time limits

14. A part-time candidate shall complete the requirements for the Master of Herbal Medicines Pass degree not earlier than the end of the fourth semester and not later than the end of the eighth semester, unless otherwise determined by the Faculty. A part-time candidate shall complete the requirements for the Master of Herbal Medicines Honours degree not earlier than the end of the fifth semester and not later than the end of the faculty.

15. A full-time candidate shall complete the requirements for the Master of Herbal Medicines Pass degree not earlier than the end of the second semester and not later than the end of the fourth semester, unless otherwise determined by the Faculty. A full-time candidate shall complete the requirements for the Master of Herbal Medicines Honours degree not earlier than the end of the third semester and not later than the end of the fifth semester, unless otherwise determined by the Faculty.

Requirements for the degree

16. A candidate for the Master of Herbal Medicines proceeding by coursework only shall

- (i) successfully complete 48 credit points of coursework covering material new to the candidate, selected from units of study prescribed by the Faculty. No more than 6 credit points shall be counted towards the degree total for units of study in which the grade of PCON was awarded.
- (ii) the course coordinator shall report the result of the examination of the coursework and other work, if any, to the Faculty which shall determine the results of the candidature.
- (hi) satisfy the requirements of all other relevant By-Laws, Rules and Resolutions of the University.
- 17. A candidate for the Master of Herbal Medicines (Honours) proceeding by coursework and dissertation shall
 - (i) successfully complete 48 credit points of coursework covering material new to the candidate, selected from units of study prescribed by the Faculty.
 - (ii) have achieved a minimum weighted average mark of 70 in at least 24 credit points of the degree prior to being permitted by the course coordinator to enrol in and undertake the dissertation.
 - (hi) successfully carry out a supervised research project and complete the Dissertation on a topic approved by the course coordinator.
 - (iv) satisfy the requirements of all other relevant By-Laws, Rules and Resolutions of the University.

18. Candidates enrolled before 2006

- (i) A student who has enrolled as a candidate for the Master of Herbal Medicines before 2006 may complete the requirements for the degree in accordance with the resolutions in force at the time the candidate commenced that degree provided that the candidate completes the requirements of the degree by 31 December 2006.
- (ii) Where a candidate proceeding pursuant to subsection (i) fails to complete the requirements for the degree before December 31, 2006 the candidate shall complete the requirements of the degree in accordance with the resolutions in force from 2006.

Examination

- 19. On completion of the requirements for the degree, the Faculty
- shall determine the result of candidature.
- 20. Examination of treatise/dissertation
 - (i) 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.
 - (ii) The reports of the examiners shall be transmitted to the course coordinator who shall make them available to the supervisor.
 - (iii) The head of the discipline 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.
 - (iv) In special cases the Faculty, on the recommendation of the head of the discipline concerned, may require the candidate to take a further examination in the area of the treatise/dissertation.
 - (v) The Faculty may permit an unsuccessful candidate to revise and resubmit the treatise/dissertation if, in the opinion of the head of the discipline concerned, the candidate's work is of sufficient merit to warrant this concession, and may prescribe special conditions to be fulfilled by the candidate.

Award of the Master of Herbal Medicines

21. The degree of Master of Herbal Medicines shall be awarded in either a Pass grade or Honours grade.

- (i) Honours. A candidate may be awarded the degree with Honours at graduation where the candidate:
 - (a) has enrolled for and successfully completed 48 credit points of coursework and 12 credit points of research resulting in a successfully completed dissertation; and
 - (b) has obtained a weighted average mark of at least 70 percent in the coursework component of the degree.
- (ii) Pass with Merit. A candidate may be awarded Pass with Merit at graduation where the candidate has achieved a minimum weighted average mark of 75 percent upon completion of all units of study.
- (iii) If a Pass level degree has already been awarded, the testamur will be replaced by the Honours level degree testamur after completing all requirements.
- (iv) Not more than five years shall have elapsed between being awarded the Pass level degree and beginning requirements for the Honours level degree.

Credit

22. A candidate who, before admission to the candidature, has spent time in graduate study in the University of Sydney or another university and has completed coursework, within five years except with permission of the Dean, considered by the Faculty to be equivalent to work prescribed for the graduate certificate, may receive credit towards the requirements for the degree.

- (i) The credit granted normally should not exceed one third of the overall award course requirements.
- (ii) Master of Herbal Medicines, Graduate Diploma in Herbal Medicines, and Graduate Certificate in Herbal Medicines courses are embedded academic sequences. A student may be granted credit for all or some of the units of study completed in one award of the sequence towards any other award in the sequence, irrespective of whether or not the award has been conferred.

Master of Pharmacy

Eligibility for admission

1. Except as provided in chapter 10 of the by-laws**, the Faculty may admit to candidature an applicant who has successfully completed a bachelor's degree in a relevant discipline from approved universities or have equivalent qualifications subject to approval by the Dean.

**Chapter 10 of the by-laws has been repealed and Part 9, section 47 of the University of Sydney (Amendment Act) Rule 1999 refers.

Availability

2. Admission to candidature may be limited by a quota. In determining the quota the Faculty will take into account:

- (i) availability of resources
- (ii) availability of adequate and appropriate supervision.

In considering an application for admission the Dean will take into account the quota and entrance will be based on the applicants who are most meritorious in terms of section 1 above.

Method of progression

3. (i) A candidate for the degree shall proceed by completing units of study as prescribed by Faculty.

(ii) A unit of study shall consist of lectures, tutorials and assignments as may be prescribed.

- (iii) In these resolutions to complete a unit of study means
 - (a) to attend lectures, tutorials and seminars, if any
 - (b) to complete satisfactorily the assignments and practical work if any

(c) to pass the examinations of the units of study if any.

Time limits

4. A candidate will proceed on a full-time basis and shall complete the requirements for the Master of Pharmacy degree not earlier than the end of the sixth semester and not later than the end of the twelfth semester, unless otherwise determined by Faculty.

Requirements for the degree

5. Candidates for the degree are required to satisfactorily complete 96 credit points of coursework covering new material to the candidate, selected from Units of Study satisfying the conditions approved by the Faculty.

Examination

6. On completion of the requirements for the degree, the Faculty shall determine the result of candidature.

Progress

- 7. The Faculty may
 - (i) 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
 - (ii) where the candidate does not show good cause, terminate the candidature.

Credit

8. A candidate who, before admission to the candidature, has spent time in graduate study in the University of Sydney or another university and has completed course work within five years, except with permission of the Dean, considered by the Faculty to be equivalent to programs prescribed by the degree, may receive credit of up to 48 credit points towards the Master of Pharmacy Degree, at the discretion of the Dean of the Faculty.

Graduate Diploma in Clinical Pharmacy

Eligibility for admission

1. An applicant for admission to candidature for the graduate dip-loma shall, except as provided in Chapter 10 of the by-laws, have successfully completed a Pharmacy degree at the University of Sydney or another approved institution.

Availability

- Admission to candidature may be limited by a quota.
- In determining the quota the Faculty will take into account:
 - (i) availability of resources

(ii) availability of adequate and appropriate supervision. In considering an application for admission the Dean will take into account the quota and entrance will be based on the applicants who are most meritorious in terms of section 1 above.

Method of progression

3. (i) A candidate for the graduate diploma shall proceed by completing units of study as prescribed by Faculty. (ii) A unit of study shall consist of lectures, tutorials, assignments

- and practical work as may be prescribed.
- (iii) In these resolutions to complete a unit of study means
 - (a) to attend lectures, tutorials and seminars, if any
 - (b) to complete satisfactorily the assignments and practical work, if any
 - (c) to pass the examinations of the units of study, if any.

Time limits

4. A candidate proceeding on a part-time basis shall complete the requirements for the Graduate Diploma in Clinical Pharmacy not

earlier than the end of the third semester and not later than the end of the sixth semester, unless otherwise determined by Faculty. 5. A Candidate proceeding on a full-time basis shall complete the requirements for the degree not earlier than the end of the second semester and not later than the end of the fourth semester, unless otherwise determined by the Faculty.

Requirements for the graduate diploma

6. Candidates for the graduate diploma are required to satisfactorily complete:

- (1) 24 credit points of coursework covering new material to the candidate, selected from units of study satisfying the conditions approved by the Faculty; and
- (2) supervised clinical placements worth 12 credit points

Examination

7. On completion of the requirements for the graduate diploma, the Faculty shall determine the result of candidature.

Progress 8. The Faculty may:

- (i) call upon any candidate to show cause why that candidature should not be terminated by reason of unsatisfactory progress towards the completion of the graduate diploma, and
- (ii) where the candidate does not show good cause, terminate the candidature.

Credit

9. A candidate who, before admission to the candidature, has spent time in graduate study in The University of Sydney or another university and has completed coursework, within five years except with permission of the Dean, considered by the Faculty to be equivalent to programs prescribed for the graduate diploma, may receive credit of up to 16 credit points towards the requirements for the Graduate Diploma in Clinical Pharmacy.

Graduate Diploma in Pharmaceutical Sciences

Eligibility for admission

1. (1) The Dean of the Faculty may admit to candidature for the Graduate Diploma in Pharmaceutical Sciences an applicant who is a holder of

the degree of Bachelor of Science, Bachelor of Pharmacy or Bachelor of Medical Science from the University of Sydney

- (2) The Dean of the Faculty may admit to candidature for the graduate diploma graduates of other universities or other ap-
- propriate institutions who in his or her opinion have qualifications equivalent to those specified in subsection (1).

Availability

2. (1) Admission to the graduate diploma may be limited by quota.

- (2) In determining the quota the University will take into account: (a) availability of resources including space, library, equipment, laboratory and computing facilities; and (b) availability of adequate and appropriate supervision.
- (3) In considering an application for admission to candidature the Dean of the Faculty shall take account of the quota and will select in preference applicants who are most meritorious in terms of section 1 above.

Method of progression and time limits

3. (1) A candidate shall engage in a program of work equivalent to that required for completion of the relevant fourth year Bachelor of Science.

Bachelor of Pharmacy or Bachelor of Medical Science Honours course offered by the Faculty of Pharmacy either as a full-time student for

a period of two semesters or, with the approval of the Dean of the Faculty, as a part-time student for a period of four semesters.

- (2) There shall be units of study in the following subject areas: Pharmacy Practice, Pharmaceutical Chemistry, Pharmaceutics or any other
- units of study approved by the Dean of the Faculty.

Examination

4. The award of the graduate diploma shall be subject to the completion of the program of work and examinations to the satisfaction of the Board of Postgraduate Studies.

Progress

5. The Dean of the Faculty may call upon any candidate to show cause why that candidature should not be terminated by reason of unsatisfactory progress towards completion of the graduate diploma and where, in the opinion of the Board of Postgraduate Studies, the candidate does not show good cause, terminate the candidature.

Graduate Diploma in Herbal Medicines

Eligibility for admission

1. Except as provided in chapter 10 of the by-laws**, the Faculty may admit to candidature an applicant who has successfully completed a bachelors degree in Pharmacy, Medicine, Nursing, Chinese Medicine, Complementary Medicine, Science, Veterinary Science, Agriculture or other appropriate disciplines from approved universities or have equivalent qualifications subject to approval by the Dean.

**Chapter 10 of the by-laws has been repealed and Part 9, section 47 of the University of Sydney (Amendment Act) Rule 1999 refers.

Availability

2. Admission to candidature may be limited by a quota.

- (i) In determining the quota the Faculty will take into account:(a) availability of resources
- (b) availability of adequate and appropriate supervision.(ii) In considering an application for admission the Dean will take into account the quota and entrance will be based on the applicants who are most meritorious in terms of section (i) above.

Probationary admission

3. A candidate will be accepted by the Faculty on a probationary basis for a period of six months.

- (i) Upon completion of this probationary period the Faculty shall review the candidate's work and shall either confirm the candidate's status, extend the probation for one semester or terminate the candidature.
- (ii) In the case of a candidate accepted on a probationary basis under section (i), the candidature shall be deemed to have commenced from the date of such acceptance.

Enrolment

4. A student must be enrolled in each semester in which he or she is actively completing the requirements for the award course.5. 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.

Discontinuation of enrolment

6. A candidate who wishes to discontinue enrolment from the Master of Herbal Medicines 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:

- (i) that the discontinuation occurred at an earlier date; and
- (ii) that there was good reason why the notification could not be made at the earlier time.

7. A discontinuation of enrolment may be recorded as Withdrawn (W) or Discontinued - Not to count as failure (DNF) where that discontinuation occurs within the time-frames specified by the University and published by the Student Centre, or where the student meets other conditions as specified by the faculty.

Suspension of candidature

8. A candidate who wishes to suspend their candidature must apply, in writing, to the Faculty.

- (i) The application must be received by the Faculty prior to the commencement of the relevant semester.
- (ii) 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.
- (hi) Late applications may be considered at the Faculty's discretion.
- (iv) 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) where that application is received within the timeframes specified by the University and published by the Stu-

dent Centre, or where the student meets other conditions as specified by the faculty.

9. 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. A student must enrol in the semester following a period of approved suspension.

11. A student whose candidature has lapsed must apply for re-admission in accordance with procedures determined by the Faculty.

Satisfactory progress pursuant to the University of Sydney

(Coursework) Rule 2000 12. The Faculty may:

- (i) on the recommendation of the head of the discipline concerned, 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
- (ii) where, in the opinion of the Faculty, the candidate does not show good cause, terminate the candidature.

Method of progression

13. A candidate for the degree shall proceed by completing Units of Study as prescribed by Faculty.

- (i) A unit of study shall consist of lectures, tutorials, assignments, practical work and supervised research as may be prescribed.
- (ii) Successful completion of a unit of study requires candidates to:
 - (a) formally enrol in the unit of study and pay associated tuition fees, if any; and
 - (b) attend lectures, tutorials, practical sessions, seminars, web forums or conduct research, if any; and
 - (c) satisfactorily complete assignments, practical work, treatise or dissertation, if any; and
 - (d) pass the written and practical examinations of the unit of study, if any.

Time limits

14. A part-time candidate shall complete the requirements for the Graduate Diploma in Herbal Medicines degree not earlier than the end of the third semester and not later than the end of the sixth semester, unless otherwise determined by the Faculty.15. A full-time candidate shall complete the requirements for the Graduate Diploma in Herbal Medicines degree not earlier than the end of the second semester and not later than the end of the third semester, unless otherwise determined by the Faculty.

Requirements for the degree

16. A candidate for the Graduate Diploma in Herbal Medicines proceeding by coursework only shall:

- (i) successfully complete 36 credit points of coursework covering material new to the candidate, selected from Units of Study prescribed by the Faculty. No more than 6 credit points shall be counted towards the degree total for units of study in which the grade of PCON was awarded.
- (ii) the course coordinator shall report the result of the examination of the coursework and other work, if any, to the Faculty which shall determine the results of the candidature.
- (iii) satisfy the requirements of all other relevant By-Laws, Rules and Resolutions of the University.
- 17. Candidates enrolled before 2006
 - (i) A student who has enrolled as a candidate for the Master of Herbal Medicines before 2006 may complete the requirements for the degree in accordance with the resolutions in force at the time the candidate commenced that degree provided that the candidate completes the requirements of the degree by December 31, 2006.
 - (ii) Where a candidate proceeding pursuant to subsection (i) fails to complete the requirements for the degree before December 31, 2006 the candidate shall complete the requirements of the degree in accordance with the resolutions in force from 2006.

Examination

18. On completion of the requirements for the degree, the Faculty shall determine the result of candidature.

19. A candidate who, before admission to the candidature, has spent time in graduate study in the University of Sydney or another university and has completed coursework, within five years except with permission of the Dean, considered by the Faculty to be equivalent to work prescribed for the graduate certificate, may receive credit towards the requirements for the degree.

- (i) The credit granted normally should not exceed one third of the overall award course requirements.
- (ii) Master of Herbal Medicines, Graduate Diploma in Herbal Medicines, and Graduate Certificate in Herbal Medicines courses are embedded academic sequences. A student may be granted credit for all or some of the units of study completed in one award of the sequence towards any other award in the sequence, irrespective of whether or not the award has been conferred.

Graduate Certificate in Clinical Pharmacy

Eligibility for admission

1. An applicant for admission to candidature for the Graduate Certificate shall hold the degree of Bachelor of Pharmacy of the University of Sydney or an equivalent qualification.

Availability

2. Admission to candidature may be limited by a quota. In determining the quota the Faculty will take into account:

- (i) availability of resources
- (ii) availability of adequate and appropriate supervision.
- In considering an application for admission the Dean will take into account the quota and entrance will be based on the applicants who are most meritorious in terms of section 1 above.

Method of progression

- 3. (1) A candidate for the Graduate Certificate shall proceed by completing units of study as prescribed by Faculty.
 - (2) A unit of study shall consist of lectures, tutorials, assignments and practical work as may be prescribed.
 - (3) In these resolutions to complete a unit of study means (a) to attend lectures, tutorials and seminars, if any
 - (b) to complete satisfactorily the assignments and practical work, if any
 - (c) to pass the examinations of the units of study, if any.

Time limits

4. A candidate will proceed on a part-time basis and shall complete the requirements for the Graduate Certificate in Clinical Pharmacy not earlier than the end of the third semester and not later than the end of the sixth semester, unless otherwise determined by the Dean.

Requirements for the Graduate Certificate

5. Candidates for the Graduate Certificate are required to satisfactorily complete 24 credit points of coursework covering new material to the candidate, selected from units of study satisfying the conditions approved by the Faculty.

Examination

6. On completion of the requirements for the Graduate Certificate, the Dean shall determine the result of the candidature.

- Progress 7. The Dean may:
 - (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 Graduate Certificate, and (2) where the candidate does not show good cause, terminate the
 - candidature.

Credit

8. A candidate who, before admission to candidature, has spent time in graduate study in the University of Sydney or another university and has completed coursework, within five years except with the permission of the Dean, considered by the Dean to be equivalent to work prescribed for the Graduate Certificate, may receive credit of up to 8 credit points towards the requirements for the Graduate Certificate in Clinical Pharmacy.

Graduate Certificate in Herbal Medicines

Eligibility for admission

1. Except as provided in chapter 10 of the by-laws**, the Faculty may admit to candidature an applicant who has successfully completed a bachelors degree in Pharmacy, Medicine, Nursing, Chinese Medicine, Complementary Medicine, Science, Veterinary Science, Agriculture or other appropriate disciplines from approved universities or have equivalent qualifications subject to approval by the Dean.

**Chapter 10 of the by-laws has been repealed and Part 9, section 47 of the University of Sydney (Amendment Act) Rule 1999 refers.

Availability

- 2. Admission to candidature may be limited by a quota.
 - (i) In determining the quota the Faculty will take into account: (a) availability of resources.
 - (b) availability of adequate and appropriate supervision.
 - (ii) In considering an application for admission the Dean will take into account the quota and entrance will be based on the applicants who are most meritorious in terms of section (i) above.

Probationary admission

3. A candidate will be accepted by the Faculty on a probationary basis for a period of six months.

- (i) Upon completion of this probationary period the Faculty shall review the candidate's work and shall either confirm the candidate's status, extend the probation for one semester or terminate the candidature.
- (ii) In the case of a candidate accepted on a probationary basis under section (i), the candidature shall be deemed to have commenced from the date of such acceptance.

Enrolment

4. A student must be enrolled in each semester in which he or she is actively completing the requirements for the award course. 5. 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.

Discontinuation of enrolment

6. A candidate who wishes to discontinue enrolment from the Master of Herbal Medicines 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:

- (i) that the discontinuation occurred at an earlier date; and
- (ii) that there was good reason why the notification could not be made at the earlier time.

7. A discontinuation of enrolment may be recorded as Withdrawn (W) or Discontinued - Not to count as failure (DNF) where that discontinuation occurs within the time-frames specified by the University and published by the Student Centre, or where the student meets other conditions as specified by the faculty.

Suspension of candidature

8. A candidate who wishes to suspend their candidature must apply,

- in writing, to the Faculty. (i) The application must be received by the Faculty prior to the
 - commencement of the relevant semester. (ii) 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.
 - (iii) Late applications may be considered at the Faculty's discretion.
 - (iv) 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) where that application is received within the timeframes specified by the University and published by the Student Centre, or where the student meets other conditions as specified by the faculty.

9. 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. A student must enrol in the semester following a period of approved suspension.

11. A student whose candidature has lapsed must apply for re-admission in accordance with procedures determined by the Faculty.

Satisfactory progress pursuant to the University of Sydney (Coursework) Rule 2000

- 12. The Faculty may
 - (i) on the recommendation of the head of the discipline concerned, 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
 - (ii) where, in the opinion of the Faculty, the candidate does not show good cause, terminate the candidature.

Method of progression

13. A candidate for the degree shall proceed by completing Units of Study as prescribed by Faculty.

- (i) A unit of study shall consist of lectures, tutorials, assignments, practical work and supervised research as may be prescribed.
- (ii) Successful completion of a unit of study requires candidates to:
 - (a) formally enrol in the unit of study and pay associated tuition fees, if any; and
 - (b) attend lectures, tutorials, practical sessions, seminars, web forums or conduct research, if any; and
 - (c) satisfactorily complete assignments, practical work, treatise or dissertation, if any; and
 - (d) pass the written and practical examinations of the unit of study, if any.

Time limits

14. A part-time candidate shall complete the requirements for the Graduate Certificate in Herbal Medicines degree not earlier than the end of the second semester and not later than the end of the fourth semester, unless otherwise determined by the Faculty.

15. A full-time candidate shall complete the requirements for the Graduate Certificate in Herbal Medicines degree not earlier than the end of the first semester and not later than the end of the second semester, unless otherwise determined by the Faculty.

Requirements for the degree

16. A candidate for the Graduate Certificate in Herbal Medicines proceeding by coursework only shall:

- (i) successfully complete 24 credit points of coursework covering material new to the candidate, selected from Units of Study prescribed by the Faculty. No more than 6 credit points shall be counted towards the degree total for units of study in which the grade of PCON was awarded.
- (ii) the course coordinator shall report the result of the examination of the coursework and other work, if any, to the Faculty which shall determine the results of the candidature.
- (hi) satisfy the requirements of all other relevant By-Laws, Rules and Resolutions of the University.
- 17. Candidates enrolled before 2006
 - (i) A student who has enrolled as a candidate for the Master of Herbal Medicines before 2006 may complete the requirements for the degree in accordance with the resolutions in force at the time the candidate commenced that degree provided that the candidate completes the requirements of the degree by December 31, 2006.
 - (ii) Where a candidate proceeding pursuant to subsection (i) fails to complete the requirements for the degree before December 31, 2006 the candidate shall complete the requirements of the degree in accordance with the resolutions in force from 2006.

Examination

18. On completion of the requirements for the degree, the Faculty shall determine the result of candidature.

Credit

19. A candidate who, before admission to the candidature, has spent time in graduate study in the University of Sydney or another university and has completed coursework, within five years except with permission of the Dean, considered by the Faculty to be equivalent to work prescribed for the graduate certificate, may receive credit towards the requirements for the degree.

- (i) The credit granted normally should not exceed one third of the overall award course requirements.
- (ii) Master of Herbal Medicines, Graduate Diploma in Herbal Medicines, and Graduate Certificate in Herbal Medicines courses are embedded academic sequences. A student may be granted credit for all or some of the units of study completed in one award of the sequence towards any other award in the

sequence, irrespective of whether or not the award has been conferred.

(l)Chapter 10 of the By-laws has been repealed and Part 9, section 47 of the University of Sydney (Amendment Act) Rule 1999 refers.

(2)Chapter 10 of the By-laws has been repealed and Part 9, section 47 of the University of Sydney (Amendment Act) Rule 1999 refers.

(3)Chapter 10 of the By-laws has been repealed and Part 9, section 47 of the University of Sydney (Amendment Act) Rule 1999 refers.

5. Postgraduate degree regulations

University of Sydney (Coursework) Rule 2000 (as amended)

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit "http://www.usyd.edu.au/handbooks/" for the most current handbooks information.

Approved by: Senate on 4 December 2000 Date of effect: 1 January 2001

Latest amendment approved by: Senate on 3 December 2001 Date of effect: 1 January 2002

Preliminary

Rules relating to Coursework Award Courses

Division 1 Award course requirements, credit points and assessment

Division 2 Enrolment

Division 3 Credit, cross-institutional study and their upper limits

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Division 7 Exceptional circumstances

Division 8 Award of degrees, diplomas and certificates

Division 9 Transitional provisions

University of Sydney (Coursework) Rule 2000 (as amended) **Preliminary**

1. Commencement and purpose of Rule

(1) This Rule is made by the Senate pursuant to section 37(1) of the University of Sydney Act 1989 for the purposes of the University of Sydney By-law 1999.

(2) This Rule comes into force on 1 January 2001.

(3) This Rule governs all coursework award courses in the University. It is to be read in conjunction with the University of Sydney (Amendment Act) Rule 1999 and the Resolutions of the Senate and the faculty resolutions relating to each award course in that faculty.

Rules relating to coursework award courses

1. Definitions

In this Rule:

award course means a formally approved program of study which can lead to an academic award granted by the University. coursework means 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, supervised research, other forms of instruction and learning normally will be dominant. All undergraduate award courses are coursework award courses. credit means advanced standing based on previous attainment in another award course at the University or at another institution. The advanced standing is expressed as credit points granted towards the award course. Credit may be granted as specific credit or non-specific credit.

specific credit means the recognition of previously completed studies as directly equivalent to units of study; **non-specific credit** means 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; and

credit points means a measure of value indicating the contribution each unit of study provides towards meeting award course completion requirements stated as a total credit point value.

dean means the dean of a faculty or the director or principal of an academic college or the chairperson of a board of studies.

degree means a degree at the level of bachelor or master for the purpose of this Rule.

embedded courses/programs means award courses in the graduate certificate/graduate diploma/master's degree by coursework sequence which allow unit of study credit points to count in more than one of the awards.

faculty means a faculty, college board, a board of studies or the Australian Graduate School of Management Limited as established in each case by its constitution and in these Rules refers to the faculty or faculties responsible for the award course concerned. **major** means a defined program of study, generally comprising

specified units of study from later stages of the award course. **minor** means a defined program of study, generally comprising units of study from later stages of the award course and requiring a smaller number of credit points than a major.

postgraduate award course means an award course leading to the award of a graduate certificate, graduate diploma, degree of master or a doctorate. Normally, a postgraduate award course requires the prior completion of a relevant undergraduate degree or diploma.

research award course means an award course in which students undertake and report systematic, creative work in order to increase the stock of knowledge. The research award courses offered by the University are: higher doctorate, Doctor of Philosophy, doctorates by research and advanced coursework, and certain degrees of master designated as research degrees. The systematic, creative component of a research award course must comprise at least 66 per cent of the overall award course requirements.

stream means a defined program of study within an award course, which requires the completion of a program of study specified by the award course rules for the particular stream, in addition to the core program specified by award course rules for the award course. **student** means a person enrolled as a candidate for a course.

testamur means a certificate of award provided to a graduate, usually at a graduation ceremony.

transcript or **academic transcript** means a printed statement setting out a student's academic record at the University.

unit of study means the smallest stand-alone component of a student's award course that is recordable on a student's transcript. Units of study have an integer credit point value, normally in the range 3-24.

undergraduate award course means an award course leading to the award of an associate diploma, diploma, advanced diploma or degree of bachelor.

2. Authorities and responsibilities

- (1) Authorities and responsibilities for the functions set out in this Rule are also defined in the document *Academic Delegations of Authority*. The latter document sets out the mechanisms by which a person who has delegated authority may appoint an agent to perform a particular function.
- (2) The procedures for consideration of, and deadlines for submission of, proposals for new and amended award courses will be determined by the Academic Board.

Division 1: Award course requirements, credit points and assessment

3. Award course requirements

- (1) To qualify for the award of a degree, diploma or certificate, a student must:
 - (a) complete the award course requirements specified by the Senate for the award of the degree, diploma or certificate concerned;
 - (b) complete any other award course requirements specified by the Academic Board on the recommendation of the faculty and published in the faculty resolutions relating to the award course;
 - (c) complete any other award course requirements specified by the faculty in accordance with its delegated authority

and published in the faculty resolutions relating to the award course; and

(d) satisfy the requirements of all other relevant by-laws, rules and resolutions of the University.

4. Units of study and credit points

(1)

- (a) A unit of study comprises the forms of teaching and learning approved by a faculty. Where the unit of study is being provided specifically for an award course which is the responsibility of another faculty, that faculty must also provide approval.
- (b)Any faculty considering the inclusion of a unit of study in the tables of units available for an award course for which it is responsible may review the forms of teaching and learning of that unit, may consult with the approving faculty about aspects of that unit and may specify additional conditions with respect to inclusion of that unit of study.
- (2) A student completes a unit of study if the student:
 - (a) participates in the learning experiences provided for the unit of study;
 - (b) meets the standards required by the University for academic honesty;
 - (c) meets all examination, assessment and attendance requirements for the unit of study; and
- (d) passes the required assessments for the unit of study. (3) Each unit of study is assigned a specified number of credit
- points by the faculty responsible for the unit of study.
- (4) The total number of credit points required for completion of an award course will be as specified in the Senate resolutions relating to the award course.
- (5) The total number of credit points required for completion of award courses in an approved combined award course will be specified in the Senate or faculty resolutions relating to the award course.
- (6) A student may, under special circumstances, and in accordance with faculty resolutions, be permitted by the relevant dean to undertake a unit or units of study other than those specified in the faculty resolutions relating to the award course and have that unit or those units of study counted towards fulfilling the requirements of the award course in which the student is enrolled.

5. Unit of study assessment

- (1) A student who completes a unit of study will normally be awarded grades of high distinction, distinction, credit or pass, in accordance with policies established by the Academic Board. The grades high distinction, distinction and credit indicate work of a standard higher than that required for a pass.
- (2) A student who completes a unit of study for which only a pass/fail result is available will be recorded as having satisfied requirements.
- (3) In determining the results of a student in any unit of study, the whole of the student's work in the unit of study may be taken into account.
- (4) Examination and assessment in the University are conducted in accordance with the policies and directions of the Academic Board.

6. Attendance

- (1) A faculty has authority to specify the attendance requirements for courses or units of study in that faculty. A faculty must take into account any University policies concerning modes of attendance, equity and disabled access.
- (2) A faculty has authority to specify the circumstances under which a student who does not satisfy attendance requirements may be deemed not to have completed a unit of study or an award course.

Division 2: Enrolment

7. Enrolment restrictions

(1) A student who has completed a unit of study towards the requirements of an award course may not re-enrol in that unit of study, except as permitted by faculty resolution or with the written permission of the dean. A student permitted to re-enrol may receive a higher or lower grade, but not additional credit points.

- (2) Except as provided in subsection (1), a student may not enrol in any unit of study which overlaps substantially in content with a unit that has already been completed or for which credit or exemption has been granted towards the award course requirements.
- (3) A student may not enrol in units of study additional to award course requirements without first obtaining permission from the relevant dean.
- (4) Except as prescribed in faculty resolutions or with the permission of the relevant dean:
 - (a) a student enrolled in an undergraduate course may not enrol in units of study with a total value of more than 32 credit points in any one semester, or 16 credit points in the summer session; and
 - (b) a student enrolled in a postgraduate award course may not enrol in units of study with a total value of more than 24 credit points in any one semester, or 12 credit points in the summer session.

Division 3: Credit, cross-institutional study and their upper limits

8. Credit for previous studies

- (1) Students may be granted credit on the basis of previous studies.
- (2) Notwithstanding any credit granted on the basis of work completed or prior learning in another award course at the University of Sydney or in another institution, in order to qualify for an award a student must:
 - (a) for undergraduate award courses, complete a minimum of the equivalent of two full-time semesters of the award course at the University; and
 - (b) for postgraduate award courses, complete at least 50 per cent of the requirements prescribed for the award course at the University.

These requirements may be varied where the work was completed as part of an embedded program at the University or as part of an award course approved by the University in an approved conjoint venture with another institution.

- (3) The credit granted on the basis of work completed at an institution other than a university normally should not exceed one third of the overall award course requirements.
- (4) A faculty has authority to establish embedded academic sequences in closely related graduate certificate, graduate diploma and master's degree award courses. In such embedded sequences, a student may be granted credit for all or some of the units of study completed in one award of the sequence towards any other award in the sequence, irrespective of whether or not the award has been conferred.
- (5) In an award course offered as part of an approved conjoint venture the provisions for the granting of credit are prescribed in the Resolutions of the Senate and the faculty resolutions relating to that award course.

9. Cross-institutional study

(1) The relevant dean may permit a student to complete a unit or units of study at another university or institution and have that unit or those units of study credited to the student's award course.(2) The relevant dean has authority to determine any conditions applying to cross-institutional study.

Division 4: Progression

10. Repeating a unit of study

- (1) A student who repeats a unit of study shall, unless granted exemption by the relevant dean:
 - (a) participate in the learning experiences provided for the unit of study; and
 - (b) meet all examination, assessment and attendance requirements for the unit of study.
- (2) A student who presents for re-assessment in any unit of study is not eligible for any prize or scholarship awarded in connection with that unit of study without the permission of the relevant dean.

11. Time limits

A student must complete all the requirements for an award course within ten calendar years or any lesser period if specified by resolution of the Senate or the faculty.

Division 5: Discontinuation of enrolment and suspension of candidature

12. Discontinuation of enrolment

- (1) A student who wishes to discontinue enrolment in an award course or a unit of study must apply to the relevant dean and will be presumed to have discontinued enrolment from the date of that application, unless evidence is produced showing: (a) that the discontinuation occurred at an earlier date; and (b) that there was good reason why the application could not be made at the earlier time.
- (2) A student who discontinues enrolment during the first year of enrolment in an award course may not re-enrol in that award course unless:
 - (a) the relevant dean has granted prior permission to re-enrol; or
 - (b) the student is reselected for admission to candidature for that course.
- (3) No student may discontinue enrolment in an award course or unit of study after the end of classes in that award course or unit of study, unless he or she produces evidence that:
 - (a) the discontinuation occurred at an earlier date; and
 - (b) there was good reason why the application could not be made at the earlier time.
- (4) A discontinuation of enrolment may be recorded as "Withdrawn (W)" or "Discontinued Not To Count As Failure (DNF)" where that discontinuation occurs within the time-frames specified by the University and published by the faculty, or where the student meets other conditions as specified by the relevant faculty.

13. Suspension of candidature

- (1) A student must be enrolled in each semester in which he or she is actively completing the requirements for the award course. A student who wishes to suspend candidature must first obtain approval from the relevant dean.
- (2) The candidature of a student who has not re-enrolled and who has not obtained approval from the dean for suspension will be deemed to have lapsed.
- (3) A student whose candidature has lapsed must apply for readmission in accordance with procedures determined by the relevant faculty.
- (4) A student who enrols after suspending candidature shall complete the requirements for the award course under such conditions as determined by the dean.

Division 6: Unsatisfactory progress and exclusion 14. Satisfactory progress

A faculty has authority to determine what constitutes satisfactory progress for all students enrolled in award courses in that faculty, in accordance with the policies and directions of the Academic Board.

15. Requirement to show good cause

- (1) For the purposes of this Rule, "good cause" means circumstances beyond the reasonable control of a student, which may include serious ill health or misadventure, but does not include demands of employers, pressure of employment or time devoted to non-University activities, unless these are relevant to serious ill health or misadventure. In all cases the onus is on the student to provide the University with satisfactory evidence to establish good cause. The University may take into account relevant aspects of a student's record in other courses or units of study within the University and relevant aspects of academic studies at other institutions provided that the student presents this information to the University.
- (2) The relevant dean may require a student who has not made satisfactory progress to show good cause why he or she should be allowed to re-enrol.
- (3) The dean will permit a student who has shown good cause to re-enrol.

16. Exclusion for failure to show good cause

The dean may, where good cause has not been established:

- exclude the student from the relevant course; or
- (2) permit the student to re-enrol in the relevant award course subject to restrictions on units of study, which may include, but are not restricted to:

(a) completion of a unit or units of study within a specified time:

- (b) exclusion from a unit or units of study, provided that the dean must first consult the head of the department responsible for the unit or units of study; and
- (c) specification of the earliest date upon which a student may re-enrol in a unit or units of study.

17. Applying for re-admission after exclusion

- (1) A student who has been excluded from an award course or from a unit or units of study may apply to the relevant dean for re-admission to the award course or re-enrolment in the unit or units of study concerned after at least four semesters, and that dean may readmit the student to the award course or permit the student to re-enrol in the unit or units of study concerned.
- (2) With the written approval of the relevant dean, a student who has been excluded may be given credit for any work completed elsewhere in the University or in another university during a period of exclusion.

18. Appeals against exclusion

- (1) In this Rule a reference to the Appeals Committee is a reference to the Senate Student Appeals Committee (Exclusions and Re-admissions).
- (2) (a) (i) A student who has been excluded in accordance with
 - this Rule may appeal to the Appeals Committee. (ii) A student who has applied for re-admission to an award course or re-enrolment in a unit of study after a period of exclusion, and who is refused re-admission or re-enrolment may also apply to the Appeals Committee.

 - (b) The Appeals Committee shall comprise:
 (i) three ex officio members (the Chancellor, the Deputy Chancellor and the Vice-Chancellor and Principal); (ii) the Chair and Deputy Chairs of the Academic Board;
 - (iii) two student Fellows; and
 - (iv) up to four other Fellows.(c) The Appeals Committee may meet as one or more subcommittees providing that each subcommittee shall include at least one member of each of the categories of:
 - (i) ex officio member;
 - (ii) Chair or Deputy Chair of the Academic Board;
 - (iii) student Fellow; and
 - (iv) other Fellows.
 - (d) Three members shall constitute a quorum for a meeting of the Appeals Committee or a subcommittee.
 - (e) The Appeals Committee and its subcommittees have authority to hear and determine all such appeals and must report its decision to the Senate annually. (f) The Appeals Committee or a subcommittee may uphold
 - or disallow any appeal and, at its discretion, may determine the earliest date within a maximum of four semesters at which a student who has been excluded shall be permitted to apply to re-enrol.
 - (g) No appeal shall be determined without granting the student the opportunity to appear in person before the Appeals Committee or subcommittee considering the appeal. A student so appearing may be accompanied by a friend or adviser.
 - (h) The Appeals Committee or subcommittee may hear the relevant dean but that dean may only be present at those stages at which the student is permitted to be present. Similarly, the dean is entitled to be present when the Committee or subcommittee hears the student.
 - (i) If, due notice having been given, a student fails to attend a meeting of the Appeals Committee or subcommittee scheduled to consider that student's appeal, the Appeals Committee or subcommittee, at its discretion, may defer consideration of the appeal or may proceed to determine the appeal.
 - (j) A student who has been excluded in accordance with these resolutions and has lodged a timely appeal against that exclusion may re-enrol pending determination of that appeal if it has not been determined by the commencement of classes in the next appropriate semester.

Division 7: Exceptional circumstances

19. Variation of award course requirements in exceptional circumstances

The relevant dean may vary any requirement for a particular student enrolled in an award course in that faculty where, in the opinion of the dean, exceptional circumstances exist.

Division 8: Award of degrees, diplomas and certificates 20. Classes of award

- (1) Undergraduate diplomas may be awarded in five grades pass, pass with merit, pass with distinction, pass with high distinction or honours.
- (2) Degrees of bachelor may be awarded in two grades pass or honours.
- (3) Graduate diplomas and graduate certificates may be awarded in one grade only - pass.
- (4) Degrees of master by coursework may be awarded three grades
 pass, pass with merit or honours.

21. Award of the degree of bachelor with honours

- (1) The award of honours is reserved to indicate special proficiency. The basis on which a student may qualify for the award of honours in a particular award course is specified in the faculty resolutions relating to the course.
- (2) Each faculty shall publish the grading systems and criteria for the award of honours in that faculty.
- (3) Classes which may be used for the award of honours are: First Class
 - Second Class/Division 1
 - Second Class/Division 2
- Third Class
- (4) With respect to award courses which include an additional honours year:
 - (a) a student may not graduate with the pass degree while enrolled in the honours year;
 - (b) on the recommendation of the head of the department concerned, a dean may permit a student who has been awarded the pass degree at a recognised tertiary institution to enrol in the honours year in that faculty;
 - (c) faculties may prescribe the conditions under which a student may enrol part-time in the honours year;
 - (d) a student who fails or discontinues the honours year may not re-enrol in it, except with the approval of the dean.

22. University Medal

An honours bachelor's degree student with an outstanding academic record throughout the award course may be eligible for the award of a University Medal, in accordance with Academic Board policy and the requirements of the faculty resolutions relating to the award course concerned.

23. Award of the degree of master with honours or merit

The award of honours or pass with merit is reserved to indicate special proficiency or particular pathways to completion. The basis on which a student may qualify for the award of honours or the award with merit in a particular degree is specified in the Faculty Resolutions relating to that degree.

24. Transcripts and testamurs

- (1) A student who has completed an award course or a unit of study at the University will receive an academic transcript upon application and payment of any charges required.
- (2) Testamurs may indicate streams or majors or both as specified in the relevant faculty resolutions.

Division 9: Transitional provisions

25. Application of this Rule during transition

This \overline{Rule} applies to all candidates for degrees, diplomas and certificates who commence candidature after 1 January 2001. Candidates who commenced candidature prior to this date may choose to proceed in accordance with the resolutions of the Senate in force at the time they enrolled, except that the faculty may determine specific conditions for any student who has re-enrolled in an award course after a period of suspension.

General University information

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit "http://www.usyd.edu.au/handbooks/" for the most current handbooks information.

See also the Glossary for administrative information relating to particular terms.

Accommodation Service

The Accommodation Service helps students find off-campus accommodation. The service maintains an extensive database of accommodation close to the Camperdown and Darlington Campus or within easy access via public transport. 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 website (http://www.usyd.edu.au/stuserv).

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

Phone: +61 29351 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 +612 9351 4118 for more information. For enquiries regarding special admissions (in-cluding mature-age entry) phone +61 2 9351 3615. Applicants without Australian citizenship or permanent residency should contact the International Office (see International Student Centre entry).

Student Centre Ground Floor, Carslaw Building F07 The 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/su/studentcentre

Applying for a course

Local applicants for undergraduate courses and programs of study For the purpose of admission and enrolment "local 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 of September in the year before enrolment. Go to the UAC website (http://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.

Local applicants for postgraduate courses and programs of study For the purpose of admission and enrolment "local 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 qualifying or preliminary program and for non-award postgraduate study can be found at the student centre website (http://www.usyd.edu.au/su/studentcentre/applications/applications.html).

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) (see International Student Centre entry). All the information international applicants need, including application forms, is available from the IO website (http://www.usyd.edu.au/international).

Assessment

For assessment matters refer to the relevant department or school.

Careers Centre

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

Careers Centre Ground Floor, Mackie Building KOI The University of Sydney NSW 2006 Australia

Phone:+61 2 9351 3481 Fax:+61 2 9351 5134 Email: info@careers.usyd.edu.au Web: www.careers.usyd.edu.au

Casual Employment Service

The Casual Employment Service helps students find casual and parttime 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 (http://www.usyd.edu.au/stuserv).

Level 7, Education Building A3 5 The 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

The Centre for Continuing Education offers a wide range of short courses for special interest, university preparation and professional development. Subject areas include: history and culture, creative arts, social sciences, languages, IT, business and overseas study tours. Courses are open to everyone.

Centre for Continuing Education Cnr Missenden Road and Campbell Street Sydney University Village Newtown NSW 2042

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

Postal address: Locked Bag 20 Glebe NSW 2037

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.

Mallett Street Campus M02

Phone:+61 2 9351 0760 Fax:+61 2 9351 0710 Email: info@cet.usyd.edu.au Web: www.usyd.edu.au/cet

Child care

Contact the Child Care Information Officer for information about child care for students and staff of the University who are parents. For details of centres, vacation and occasional care see the child care website via your MyUni student portal or the Services for Students website (http://www.usyd.edu.au/stusery)

Child Care Information Officer Level 7, Education Building A3 5

Phone:+61 2 9351 5667 Fax:+61 2 9351 7055 Email: childc@ stuserv.usyd.edu.au Web: www.usyd.edu.au/childcare

Client Services, Information and Communications Technology (ICT)

Client Services are responsible for the delivery of many of the computing services provided to students. Students can contact Client Services by phoning the ICT Helpdesk on 9351 6000, through the IT Assist website (<u>www.itassist.usyd.edu.au</u>) or by visiting the staff of the University Access Labs.

The access labs on the Camperdown and Darlington campus are located in:

- Fisher Library (Level 2);
- Carslaw Building (Room 201);
- Education Building (Room 232);
- Christopher Brennan Building (Room 232);
 Engineering Link Building (Room 222); and
- Pharmacy and Bank Building (Room 510).

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

Each student is supplied with an account, called a "Unikey" 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 (<u>http://my-</u>
- uni.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 The 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;
- course notes;
- · reference books;
- DVDs; • flash drives: and
- · software at academic prices.

Lifetime membership costs \$20.00 and gives a ten per cent discount 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. Counselling is free and confidential. The service provides short-term, problem-focused counselling to promote psychological wellbeing and to help students develop effective and realistic coping strategies. The service runs a program of workshops during each semester. 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.

Camperdown and Darlington Level 7, Education Building A3 5 The University of Sydney NSW 2006 Australia

Phone:+61 2 9351 2228 Fax:+61 2 9351 7055 Email: counsell@mail.usyd.edu.au Web: www.usyd.edu.au/counsel

Cumberland Campus Ground Floor, A Block, Cumberland Campus C42 The University of Sydney East Street Lidcombe NSW 2141 Australia Phone:+61 2 9351 9638 Fax:+61 2 9351 9635 Email: <u>CS_Cumberland@fhs.usyd.edu.au</u>

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. The service 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 advocacy with academic staff to negotiate assessment and course requirement modifications where appropriate. For details on registering with the service and online resources see the Disability Services website via your MyUni student portal or the Services for Students website <u>www.usyd.edu.au/stuserv</u>.

Camperdown and Darlington campuses

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

Phone:+61 2 9351 7040 Fax:+61 2 9351 3320 TTY:+61 2 9351 3412 Email: <u>disserv@stuserv.usyd.edu.au</u> Web: www.usyd.edu.au/disability

Cumberland Campus

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

Enrolment

Students entering first year

Details of enrolment procedures will be sent to you with your UAC offer of enrolment. Enrolment takes place at a specific time and date, usually during the last week of January, depending on your surname and the faculty in which you are enrolling. You must attend the University in person or else nominate somebody in writing to act on your behalf. On enrolment day you pay the compulsory fees for joining the Student Union, the Students' Representative Council and sporting bodies. (These are currently subject to Parliamentary Review and may be voluntary in 2006.) You also nominate your preferred payment option, either "up front" or deferred, for your Higher Contribution Scheme (HECS) liability. You will also choose your first-year units of study, so it's important to consult the appropriate faculty handbook before enrolling.

All other students

A pre-enrolment package is sent to all enrolled students in late September and contains instructions on the procedure for 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: <u>janet.broady@usyd.edu.au</u>, or go to <u>www.facilities.usyd.edu.au/projects/environ/about.shtml</u> (http://<u>www.facilities.usyd.edu.au/projects/environ/about.shtml</u>) where you can find out what the University is doing and how you can get involved, make suggestions or receive the Sustainable Campus Newsletter.

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 The 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 also has information on obtaining a refund for fee payments.

Fees Office Margaret Telfer Building K07 The University of Sydney NSW 2006 Australia

Phone:+61 2 9351 5222 Fax:+61 2 9351 4202

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 protal or the Services for Students website www.usyd.edu.au/stuserv

Level 7, Education Building A3 5 The University of Sydney NSW 2006 Australia

Phone:+61 2 9351 2416 Fax:+61 2 9351 7055 Email: <u>fao@stuserv.usyd.edu.au</u> Web: <u>www.usyd.edu.au/fin assist</u>

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. The two reports produced are the *Statement of Affairs* and the *Summary of Affairs*. 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 reports may be found at <u>www.usyd.edu.au/arms/foi</u>

Graduations Office

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

Student Centre Carslaw Building F07 The 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 (<u>http://www.usyd.edu.au/about/publication/pub/cal</u>endar.shtml)) 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 (ht-tp://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:

Students' Representative Council Level 1, Wentworth Building G01 The University of Sydney NSW 2006 Australia

Phone: +61 2 9660 5222

H ECS and Fees Office

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

Phone: +61 2 9351 5659, +61 2 9351 5062, +61 2 9351 2086 Fax:+61 2 9351 5081

International Student Centre

The International Student Centre consists of the International Office and the Study Abroad and Exchange Office. The IO provides assistance with application, admission and enrolment procedures and administers scholarships for 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 Student Centre

Services Building G12 The University of Sydney NSW 2006 Australia

Phone:+61 2 9351 4079 Fax:+61 2 9351 4013 Email: <u>info@io.usyd.edu.au</u> Web: <u>www.usyd.edu.au/international</u> (<u>http://www.usyd.edu.au/international</u>)

Study Abroad and Exchange Unit

Email: exchange@io.usyd.edu.au

Study Abroad Phone:+61 2 9351 3699 Fax:+61 2 9351 2795 Email: <u>studyabroad@io.usyd.edu.au</u> Web: <u>www.usyd.edu.au/fstudent/studyabroad/index.shtml</u> (http://w <u>ww.usyd.edu.au/fstudent/studyabroad/index.shtml</u>) *Exchange* Phone:+61 2 9351 3699 Fax:+61 2 9351 2795

International Student Services Unit

Web: www.usyd.edu.au/fstudent/exchange/index.shtml

The International Student Services 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 a 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 <u>www.usyd.edu.au/stusery</u>. International students also have access to all University student support services.

Camperdown and Darlington campuses

Ground Floor, Services Building G12 The University of Sydney NSW 2006 Australia

Phone:+61 2 9351 4749 Fax:+61 2 9351 6818 Email: <u>info@issu.usyd.edu.au</u> Web: <u>www.usyd.edu.au/issu</u>

Cumberland Campus

Ground Floor, A Block, Cumberland Campus C42 The University of Sydney East Street Lidcombe NSW 2141 Australia

Phone:+61 2 9351 9638 Fax:+61 2 9351 9635 Email: <u>ISSU Cumberland@fhs.usyd.edu.au</u> Web: <u>www.usyd.edu.au/issu</u>

Koori Centre and Yooroang Garang

The Koori Centre provides programs, services and facilities to encourage and support the involvement of 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 Aboriginal Studies in various mainstream courses. In addition the Centre provides tutorial assistance, and student facilities such as: computer lab, Indigenous research library and study rooms.

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 The 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: <u>koori@koori.usyd.edu.au</u> Web: <u>www.koori.usyd.edu.au</u> (http://www.koori.usyd.edu.au)

Yooroang Garang T Block, Level 4, Cumberland Campus C42 The University of Sydney NSW 2006 Australia

Phone:+61 2 9351 9393 Toll Free: 1800 000 418 Fax:+61 2 9351 9400 Email: <u>yginfo@fhs.usyd.edu.au</u> Web: <u>www.yg.fhs.usyd.edu.au</u>

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. 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 special program for international students, faculty-based workshops, computer-based learning resources, publications of learning resources and library facilities. 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 <u>www.usyd.edu.au/stuserv</u>.

Camperdown and Darlington campuses Level 7, Education Building A35 The University of Sydney NSW 2006 Australia

Phone:+61 2 9351 3853 Fax:+61 2 9351 4865 Email: <u>lc@stuserv.usyd.edu.au</u> Web: <u>www.usyd.edu.au/lc</u>

Cumberland Campus Ground Floor, A Block, Cumberland Campus C42 The University of Sydney East Street Lidcombe NSW 2141 Australia

Phone:+61 2 9351 9638 Fax:+61 2 9351 9635 Email: <u>LC_Cumberland@fhs.usyd.edu.au</u> Web: <u>www.usyd.edu.au/lc</u>

Library

The University of Sydney Library, the largest academic library in the Southern Hemisphere, is a network of 18 libraries located on nine campuses. The Library website (<u>http://www.library.usyd.edu.au</u>) 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 52,000 electronic journals and 270,000 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 <u>atwww.library.usyd.edu.au/borrowing</u> (http://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 thereserve service (<u>http://opac.lib-rary.usyd.edu.au/screens/reserve.html</u>).

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 (<u>http://www.library.usyd.edu.au/contacts/index.html</u>).

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 (<u>http://www.lib-rary.usyd.edu.au/contacts/subjectcontacts.html</u>).

Library facilities include individual and group study spaces, computers, printers, multimedia equipment, photocopiers and adaptive technologies. Check the "Libraries" link on the home page (http://<u>www.library.usyd.edu.au</u>) 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 (<u>http://www.lib-rary.usyd.edu.au/about/policies/clientcharter.html</u>).

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 2890 (administration), +61 2 9351 7278 (renewals) Email: <u>loanenq@library.usyd.edu.au</u> (loan enquiries), udd@lib-<u>rary.usyd.edu.au</u> (document delivery enquiries) Web: <u>www.library.usyd.edu.au</u>

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 entre 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/stusery.

Level 4, Carslaw Building F07 The University of Sydney NSW 2006 Australia

Phone:+61 2 9351 4061 Fax:+61 2 9351 5797 Email: <u>mlc@stuserv.usyd.edu.au</u> Web: <u>www.usyd.edu.au/mlc</u>

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

The centre provides access to lectures, classwork and interactive self-paced learning materials for students of languages other than English (LOTE) and English as a second language (ESL). The library holds materials in over 90 LOTE languages. 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) The University of Sydney NSW 2006 Australia

Phone: For language enquiries +612 9351 2371, for all other enquiries+61 2 9351 6781 Fax:+61 2 9351 3626 Email: For language related enquiries language.enquiries® <u>arts.usyd.edu.au</u>, for all other enquiries METAResource-<u>Centre@arts.usyd.edu</u>

Web: www.arts.usyd.edu.au/centres/meta

MyUni Student Portal

Launched in July 2004, the MyUni student portal (<u>http://my-uni.usyd.edu.au</u>) 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 thier login-in 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 international students; and
- campus maps, with descriptions of cultural, sporting and campus facilities.

Part-time, full-time

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 recreation 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 3 5-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.

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 <u>www.usyd.edu.au/arms/privacy</u> (<u>http://www.usyd.edu.au/arms/privacy</u>).

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: <u>foi@mail.usyd.edu.au</u>

Scholarships for undergraduates

Scholarships Unit Room 147, Ground Floor, Mackie Building KOI The University of Sydney NSW 2006 Australia

Phone:+61 2 9351 2717 Fax:+61 2 9351 5134 Email: <u>scholarships@careers.usyd.edu.au</u> Web: <u>www.usyd.edu.au/scholarships</u>

Student Centre

Ground Floor, Carslaw Building F07 The 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/su/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. Students are required to provide a passport-sized colour photograph of their head and shoulders for lamination on to this card. Free lamination is provided at a range of sites throughout the University during the January/February enrolment/pre-enrolment period. Cards that are not laminated, or do not include a photograph, will be rejected. New identity cards are required for each year of a student's enrolment.

Student Services

The University provides personal, welfare, administrative and academic support services to facilitate your success at University. Many factors can 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 the Student Services website (http://www.usyd.edu.au/stuserv).

The Sydney Summer School

Most faculties at the University offer units of study from undergraduate degree programs during summer. There are also some units of study available for postgraduate coursework programs from some faculties. 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 units enable students to accelerate their degree progress, make up for a failed unit or fit in a unit which otherwise would not suit their timetables. New students may also gain a head start by completing subjects before they commence their degrees. Units start at various times from late November and run for up to six weeks (followed by an examination week). Notice of the units available is on the Summer School website (http://www.summer.usyd.edu.au) 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 up to three weeks (followed by an examination week). It offers mainly postgraduate and a few undergraduate units of study. Information can be found on the Summer School website (http://www.summer.usyd.edu.au).

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 (<u>http://myuni.usyd.edu.au</u>).

The Faculty of Health Sciences, The Sydney College of the Arts, The Sydney Conservatorium of Music and the Faculty of Vetinary Science produce their own timetables for all teaching that they deliver. These timetables are available from the faculties.

University Health Service

The University Health Service provides full general practitioner services and emergency medical care to all members of the University community. Medical centres on the Camperdown and Darlington Campuses offer general practioners, physiotherapy and some specialist services.

Email: <u>director@unihealth.usyd.edu.au</u> Web: <u>www.unihealth.usyd.edu.au</u>

University Health Service (Wentworth) Level 3, Wentworth Building G01 The University of Sydney NSW 2006 Australia

Phone:+61 2 9351 3484 Fax:+6129351 4110

University Health Service (Holme) Science Rd entry, Holme Building A09 The University of Sydney NSW 2006 Australia

Phone:+61 2 9351 4095 Fax:+61 2 9351 4338

General University information

Student organisations

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit "<u>http://www.usyd.edu.au/handbooks/"</u> for the most current handbooks information.

Students' Representative Council

The Students' Representative Council (SRC) is the organisation which represents undergraduates both within the University and in the wider community. All students enrolling in an undergraduate course automatically become members of the SRC.

Level 1, Wentworth Building G01 The University of Sydney NSW 2006 Australia

Phone: + 61 2 9660 5222 (editors, *Honi* SV^Y/Legal Aid, Student Welfare and Centrelink advice, interest free loans) Second-hand Bookshop: +61 2 9660 4756 Mallet Street: +61 2 9351 0691 Conservatorium: +61 2 9351 1291 Fax:+61 2 9660 4260 Email: <u>info@src.usyd.edu.au</u> Web: <u>www.src.usyd.edu.au</u>

Sydney University Postgraduate Representative Association (SUPRA)

SUPRA is an organisation that provides services to and represents the interests of postgraduate students. All postgraduate students at the University of Sydney are members of SUPRA.

Raglan Street Building G10 University of Sydney NSW 2006 Australia

Phone:+61 2 9351 3715 Freecall: 1800 249 950 Fax:+61 2 9351 6400 Email: <u>supra@mail.usyd.edu.au</u> Web: <u>www.supra.usyd.edu.au</u>

Sydney University Sport

Sydney University Sport provides opportunities for participation in a range of sporting and recreational activities along with first class facilities.

University Sports and Aquatic Centre G09 The University of Sydney NSW 2006 Australia

Phone:+61 2 9351 4960 Fax:+61 2 9351 4962 Email: <u>admin@susport.usyd.edu.au</u> Web: <u>www.susport.com</u>

University of Sydney Union

The University of Sydney Union is the main provider of catering facilities, retail services, welfare programs and social and cultural events for the University community on the Camperdown and Darlington campuses and at many of the University's affiliated campuses.

University of Sydney Union Level 1, Manning House A23 The University of Sydney NSW 2006 Australia

Phone: 1800 013 201 (switchboard)

Fax: (02) 9563 6109 Email: <u>info@usu.usyd.edu.au</u> Web: <u>www.usydunion.com</u>

Student organisations

Abbreviations

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit "<u>http://www.usyd.edu.au/handbooks/"</u> for the most current handbooks information.

С

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.

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

| А | | С | |
|---------|---|----------|--|
| AARNet | Australian Academic Research Network | CREO | Centre for Regional Education, Orange |
| AAUT | Australian Awards for University Teaching | CRICOS | Commonwealth Register of Institutions and Courses for Overseas Stu- dents |
| AAM | Annual Average Mark | CRRI | Centre for Rural and Regional Innovation |
| ABC | Activity Based Costing | CSIRO | Commonwealth Scientific and Industrial Research Organisation |
| ABSTUDY | Aboriginal Study Assistance Scheme | CST | College of Sciences and Technology |
| ACER | Australian Council for Educational Research | CULT | |
| AGSM | Australian Graduate School of Management | | Committee for University Teaching and Staff Development |
| ANZAAS | Australian and New Zealand Association for the Advancement of Science | CUTSD | Committee for University Teaching and Staff Development |
| APA | Australian Postgraduate Awards | D | |
| APAC | Australian Partnership for Advanced Computing | DAC | Data Audit Committee |
| APAI | Australian Postgraduate Awards (Industry) | DEST | Commonwealth Department of Education, Science and Training |
| APA-IT | Australian Postgraduate Awards in Information Technology | DET | NSW Department of Education and Training |
| APDI | Australian Postdoctoral Fellowships Industry | D-IRD | Discovery-Indigenous Researchers Development Program |
| APEC | Asia-Pacific Economic Cooperation | DVC | Deputy Vice-Chancellor |
| APF | Australian Postdoctoral Fellowship | Е | |
| AQF | Australian Qualifications Framework | EB | Enterprise Bargaining |
| ARC | Australian Research Council | EFTSU | Equivalent Full-Time Student Unit |
| ARTS | Automated Results Transfer System | EFTSL | Equivalent Full-Time Student Load |
| ASDOT | Assessment Fee Subsidy for Disadvantaged Overseas Students | EIP | Evaluations and Investigations Program |
| ATN | Australian Technology Network | ELICOS | English Language Intensive Course of Study |
| ATP | Australian Technology Park | EMU | Electron Microscope Unit |
| ATPL | Australian Technology Park Limited | ESOS Act | Education Services for Overseas Student Act |
| AUQA | Australian Universities Quality Agency | | Education betwees for overseas statem rec |
| AusAID | Australian Agency for International Development | F | |
| AUTC | Australian Universities Teaching Committee | FFT | Fractional Full-Time (Equivalent Staff) |
| AVCC | Australian Vice-Chancellors Committee | FlexSIS | Flexible Student Information System |
| | Australian vice-chancellors committee | FHS | Faculty of Health Sciences |
| В | | FMO | Facilities Management Office |
| BAA | Backing Australia's Ability | FOS | Field of Study |
| BAC | Budget Advisory Committee | FTE | Full-Time Equivalent (Staff) |
| BITLab | Business Intelligence Lab | FRM | Faculty of Rural Management |
| BLO | Business Liaison Office | G | |
| BOTPLS | Bridging for Overseas Trained Professionals Loans Scheme | GATS | General Agreement on Trade in Services |
| С | | GCCA | Graduate Careers Council of Australia |
| CAF | Cost Adjustment Factor | GDS | Graduate Destination Survey |
| CAUT | Committee for Advancement of University Teaching | GPOF | General Purpose Operating Funds |
| CDP | Capital Development Program | GSA | Graduate Skills Assessment |
| CEP | Country Education Profile | GSG | Graduate School of Government |
| CEQ | Course Experience Questionnaire | GWSLN | Greater Western Sydney Learning Network |
| CFO | Chief Financial Officer | Н | |
| CHASS | College of Humanities and Social Sciences | | Hiskon Dagage Basageh |
| CHESSN | Commonwealth Higher Education System Student Number | HDR | Higher Degree Research |
| CHS | College of Health Sciences | HECS | Higher Education Contribution Scheme |
| CIO | Chief Information Officer | HEEP | Higher Education Equity Program |
| COE | Confirmation of Enrolment | HEFA | Higher Education Funding Act 1988 |
| CPSU | Community and Public Sector Union | HEIMS | Higher Education Information Management System |
| CRC | Cooperative Research Centre | HEIP | Higher Education Innovation Program (DEST) |
| | | HELP | Higher Education Loan Program |

| H | Histor Education Office | Q | 0.1 |
|----------------|---|---------|-------------|
| HEO | Higher Education Officer | QACG | Quality Ad |
| HEP | Higher Education Provider | R | |
| HERDC | Higher Education Research Data Collection | R&D | Research |
| HESA | Higher Education Support Act | R&R | Restructuri |
| HOD | Head of Department | RC | Responsibi |
| I | | REG | Research a |
| AF | Institutional Assessment Framework (This is a new name for what was | REP | Research E |
| | previously the DEST Profile process.) | RFM | Relative Fu |
| AS | Institute of Advanced Studies | RIBG | Research I |
| ICT ICT | Information and Communication Technology | RIEF | Research I |
| CTR | Information and Communication Technology Resources | RISF | Restructuri |
| ELTS | International English Language Testing Scheme | RMO | Risk Mana |
| GS | Institutional Grants Scheme (DEST) | ROA | Record of |
| 10 | International Office | RQ | Research (|
| P | Intellectual Property | RQU | Recognitio |
| PRS | International Postgraduate Research Scholarships | RRTMR | Research a |
| REX | International Researcher Exchange Scheme | RSL | Recent Sch |
| SFP | Indigenous Support Funding Program | RTS | Research T |
| SIG | Innovation Summit Implementation Group | S | |
| ISSU | International Student Services Unit | SCA | Sydney Co |
| TC | Information Technology Committee | SCEQ | Sydney Co |
| TL | Institute for Teaching and Learning | SCM | Sydney Co |
| TS | Information Technology Services | SCR | Science Ca |
| I | | SDF | Strategic D |
| IASON | Joint Academic Scholarships Online Network | SEG | Senior Exe |
| L | | SES | Socioecono |
| LBOTE | Language Background Other Than English | SI | Scholarshi |
| | | SLE | Student Le |
| M | | SNA | Safety Net |
| MBA | Master of Business Administration | SPIRT | Strategic P |
| MISG | Management Information Steering Group | SPR | Student Pro |
| MNRF | Major National Research Facilities Scheme | SRC | Students' F |
| MOU | Memorandum of Understanding | SSR | Student/Sta |
| MPG | Major Projects Group | STABEX | Study Abro |
| MRB | Medical Rural Bonded Scholarship Scheme | SUPRA | Sydney Un |
| N | | SUSport | Sydney Un |
| NBCOTP | National Bridging Courses for Overseas Trained Program | - | |
| NCG | National Competitive Grant | T | |
| NESB | Non-English-Speaking Background | TAFE | Technical a |
| NHMRC | National Health and Medical Research Council | TOEFL | Test of Eng |
| NOIE | National Office for the Information Economy | TPI | Teaching F |
| NOOSR | National Office for Overseas Skill Recognition | u | |
| NRSL | Non-Recent School Leaver | UAC | Universitie |
| NSWVCC | New South Wales Vice-Chancellors' Conference | UMAP | University |
| NTEU | National Tertiary Education Industry Union | UNESCO | United Nat |
| 0 | | UPA | University |
| DECD | Organisation for Economic Cooperation and Development | V | |
| OLA | Open Learning Australia | VCAC | Vice-Chan |
| OLDPS | Open Learning Deferred Payment Scheme | VET | Vocational |
| OPRS | Overseas Postgraduate Research Scholarships | | . seatonal |
| | | W | |
| P | | WAM | Weighted A |
| PELS | Postgraduate Education Loans Scheme | WRP | Workplace |
| PSO | Planning Support Office | WTO | World Trac |
| PVC | Pro-Vice-Chancellor | Y | |
| 0 | | YFE | Year of Fir |
| x QA | Quality Assurance | | |
| Q | | | Е |

| 2 | |
|--------|---|
|)ACG | Quality Advisory and Coordination Group |
| 2 | |
| R&D | Research and Development |
| R&R | Restructuring and Rationalisation Program |
| RC | Responsibility Centre |
| REG | Research and Earmarked Grants |
| REP | Research Education Program |
| RFM | Relative Funding Model |
| RIBG | Research Infrastructure Block Grant (DEST) |
| RIEF | Research Infrastructure Equipment and Facilities Scheme |
| RISF | Restructuring Initiatives Support Fund |
| RMO | Risk Management Office |
| ROA | Record of Achievement |
| RQ | Research Quantum |
| RQU | Recognition Quality Unit (Higher Education Division - DEST) |
| RTMR | Research and Research Training Management Reports |
| RSL | Recent School Leaver |
| RTS | Research Training Scheme (DEST) |
| 5 | |
| CA | Sydney College of the Arts |
| CEQ | Sydney Course Experience Questionnaire |
| CM | Sydney Conservatorium of Music |
| CR | Science Capability Review |
| DF | Strategic Development Fund |
| EG | Senior Executive Group |
| ES | Socioeconomic Status |
| I | Scholarship Index |
| LE | Student Learning Entitlement |
| NA | Safety Net Adjustment |
| PIRT | Strategic Partnerships with Industry - Research and Training Scheme |
| PR | Student Progress Rate |
| RC | Students' Representative Council |
| SR | Student/Staff Ratio |
| TABEX | Study Abroad Exchange (database) |
| UPRA | Sydney University Postgraduate Students' Representative Association |
| USport | Sydney University Sport |
| ſ | |
| AFE | Technical and Further Education |
| OEFL | Test of English as a foreign language |
| PI | Teaching Performance Indicator |
| 1 | |
| JAC | Universities Admissions Centre |
| JMAP | University Mobility in Asia and the Pacific |
| JNESCO | United Nations Educational, Scientific and Cultural Organisation |
| ЛРА | University Postgraduate Awards |
| 7 | |
| /CAC | Vice-Chancellor's Advisory Committee |
| /ET | Vocational Education and Training |
| | Control and training |
| N | |
| VAM | Weighted Average Mark |
| VRP | Workplace Reform Program |
| VTO | World Trade Organization |
| č | |
| /FE | Year of First Enrolment |
| | |

Glossary

The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit "<u>http://www.usyd.edu.au/handbooks/"</u> for the most current handbooks information.

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

А

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:

$\mathcal{A}_{HL&BAWJL} = \frac{2}{2} (marks \times credit \text{ point value})}{2} (credit \text{ point value})$

(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.

Academic Board

The senior academic body within the University. In conjunction with faculties, the Academic Board has responsibility for approving, or recommending to Senate for approval, new or amended courses and units of study and policy relating to the admission and candidature of students. (For further information, see the University Calendar.)

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 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 External transcript, Internal transcript.)

Academic year

The current calendar year in which a student is enrolled. (See also Academic cycle, Stage.)

Admission

Governed by the University's admission policy, this is the process for identifying applicants eligible to receive an initial offer of enrol-Iment in a course at the University. Admission to most courses is based on performance in the HSC, with applicants ranked on the Sbasis 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 criteria 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 (Deferment)

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 sidneiensis

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: (mark*credit_pt_value)/ (credit_pt_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.

Appeals

Students may lodge an appeal against academic or disciplinary decisions. An academic appeal (e.g. against exclusion) is managed by the Student Centre - Exclusions Office while it is under consideration and a record of the outcome of the appeal will be retained.

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

Formative assessment is 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

Summative assessment is 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.)

Assumed knowledge

For some units of study, a student is assumed to have passed a relevant subject at 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 Technology (DEST) classification defining the manner in which a student is undertaking a course, i.e. internal, external, mixed or offshore.

Australian Graduate School of Management (AGSM)

A joint venture with the University of New South Wales. The AGSM is derived from the Graduate School of Business at the University of Sydney and the then AGSM at the University of New South Wales.

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

Austudy provides financial help to students who are aged 25 years or more 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.)

В

Bachelor's degree

The highest undergraduate award offered at the University. A bachelor's degree course normally requires three or four years of fulltime 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.)

С

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 11 campuses of the University of Sydney:

- Burren Street (Institute for International Health, Institute of Transport Studies)
- · Camperdown and Darlington (formerly known as Main Campus)
- Camden (Agriculture and Veterinary Science)
- Conservatorium (Sydney Conservatorium of Music)
- Cumberland (Health Sciences)
- Mallett Street (Nursing)
- Orange (Faculty of Rural Management and Centre for Regional Education)
- 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.

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.)

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.

College of Health Sciences

Consists of the Faculties of Dentistry; Health Sciences; Medicine; Nursing; and Pharmacy.

College of Humanities and Social Sciences (CHASS)

Consists of the Faculties of Arts; Economics and Business; Education; Law; the Sydney College of the Arts; and the Sydney Conservatorium of Music.

College of Sciences and Technology (CST)

Consists of the Faculties of Agriculture, Food and Natural Resources; Architecture; Engineering; Rural Management; Science; and Veterinary Science.

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 combined degree is 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.

Compulsory subscriptions

Each enrolled student is liable to pay annual (or semester) subscriptions, as determined by the Senate, to the student organisations at the University. There are different organisations for undergraduate and postgraduate students.

The student organisations are specific to different campuses. The organisations at campuses other than Camperdown and Darlington include: the Conservatorium Student Association, the Cumberland Student Guild, the Orange Agricultural College Student Association and the Student Association of Sydney College of the Arts. (See also Compulsory subscription exemption, Joining fee, Life membership.)

Compulsory subscription exemption

Students of a certain age or those with disabilities or medical conditions may be exempt from the subscription to the sports body.

Conscientious objectors to the payment of subscriptions to unions of any kind may apply to the Registrar for exemption. The Registrar may permit such a student to make the payment to the Jean Foley Bursary Fund instead. (See also Compulsory subscriptions.)

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), whereby 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 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 comprising all graduates of the University.

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 Senate, on the recommendation of the Academic Board. 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, supervised, 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.

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, e.g. 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. Credit may be granted as specified credit or nonspecified 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 AAM - Annual average mark, 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 will have a 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 HECS liability or tuition fee charge at the institution at which the unit of study is being undertaken. Students pay compulsory subscriptions to one university only (usually their home university, i.e. the university which will award their degree). (See also Non-award course).

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.)

D

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 sub-committee of the VCAC Enrolment Working Party, it is chaired by the Registrar, with membership including the deans, the Student Centre, FlexSIS and the Planning Support Office.

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 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.

Differential HECS

(See Higher Education Contribution Scheme (HECS).)

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.

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.

Ε

Earliest date

(See Research candidature.)

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. (effective 1 January 2005)

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 HECS liability depends on the HECS census date. (See also HECS.)

Examination

A set of questions or exercises evaluating on a given subject given by a department or faculty. (See 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.)

Fee-paying students

Students who pay tuition fees to the University and are not liable for HECS.

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 HECS 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 Assessment.)

Full-time student

(See also 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.)

| Grade | Description | Comment |
|-------|---|--|
| HD | High distinction | A mark of 85-100. |
| D | Distinction | A mark of 75-84. |
| CR | Credit | A mark of 65-74. |
| Р | Pass | A mark of 50-64. |
| R | Satisfied require- ments | This is used in pass/fail only outcomes. |
| UCN | Unit of study con- tinuing | Used at the end of semester for units of study that have been approved to extend into a following semester. This will automatically flag that no final result is required until the end of the last semester of the unit of study. |
| PGON | Pass (concessional) | A mark of 46-49. Use of this grade is restricted to those courses that allow for a concessional pass of some kind to be awarded. A student may re-enrol in a unit of study for which the result was PCON. Each faculty will determine and state in its course regulations what proportion, if any, may count - e.g. "no more than one sixth of the total credit points for a course can be made up from PCON results". |
| F | Fail | A mark of 0-49. This grade may be used for students with marks of 46-49 in those faculties which do not use PCON. |
| AF | Absent fail | Includes non-submission of compulsory work (or non- attendance at compulsory labs, etc) as well as failure to attend an examination. |
| W | Withdrawn | Not recorded on an external transcript. This is the result that obtains where a student applies to discontinue a unit of study by the HECS census date (i.e. within the first four weeks of enrolment). |
| DNF | Discontinued - not to count as failure | Recorded on external transcript. This result applies auto- matically where a student discontinues after the HECS census date but before the end of the seventh week of the semester (or before half of the unit of study has run, in the case of units of study which are not semester- length). A faculty may determine that the result of DNF is warranted after this date if the student has made out a special case based on illness or misadventure. |
| INC | Incomplete | This result is used when examiners have grounds (such as illness or misadventure) for seeking further information or for considering additional work from the student before confirming the final result. Except in special cases ap- proved by the Academic Board, this result will be conver- ted to a normal permanent passing or failing grade either: by the dean at the review of examination results conducted pursuant to section 2 (4) of the Academic Board policy "Examinations and Assessment Procedures"; or automat- ically to an AF grade by the third week of the immediately subsequent academic session. Deans are authorised to approve the extension of a MESIC grade for individual students having a valid reason for their incomplete status. |
| UCN | Incomplete | A MINC or INC grade is converted, on the advice of the dean, to UCN when all or many students in a unit of study have not completed the requirements of the unit. The students may be engaged in practicum or clinical place- ments, or in programs extending beyond the end of semester (e.g. Honours). |

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.)

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 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.)

Η

Head of department (HOD)

The head of the academic unit which has responsibility for the relevant unit of study, or equivalent program leader.

Higher doctorates

See Award course.

HECS (Higher Education Contribution Scheme)

All students, unless they qualify for an exemption, are obliged to contribute towards the cost of their education under the Higher Education Contribution Scheme. These contributions are determined annually by the Commonwealth Government. This scheme will cease in its current form from 1 January, 2005.

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

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.

I

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 and BMus students on the Camperdown Campus 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. The 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.

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.)

Joining fee

Students enrolling for the first time pay a joining fee in addition to the standard subscription for the University of Sydney Union or equivalent student organisation. (See also Compulsory subscription.)

L

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

Under some circumstances (e.g. after five full-time years of enrolments and contributions) students may be granted life membership of various organisations. This means they are exempt from paying yearly fees. (See also Compulsory subscriptions.)

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, HECS, International student.)

Μ

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 graduands 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.)

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.)

Mutually exclusive units of study

(See Prohibited combinations of units of study.)

Ν

Non-award course (See Course.)

Non-standard session

A teaching session other than the standard February and August sessions - e.g. Summer School, in which units of study are delivered and assessed in an intensive mode during January. (See also Semester, Session.)

0

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.

Ρ

Part-time student

(See Attendance mode, Attendance pattern, Equivalent full-tme 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. (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.)

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 will cease in this manner from 1 January, 2005, and will be replaced by the FEE-HELP scheme.

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, preenrolment 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 preenrol 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 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 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 departments 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 whose dates 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 (nonstandard 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.)

Senate appeals

Senate appeals are held for those students who, after being excluded by a faculty from a course, appeal to the Senate for readmission. While any student may appeal to the Senate against an academic decision, such an appeal will normally be heard only after the student has exhausted all other avenues, i.e. the department, faculty, board of study and, in the case of postgraduates, the Committee for Graduate Studies. (See also Exclusion.)

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.

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.)

Stream

A defined award course, which requires the completion of set units of study as specified by the course rules for the particular stream, in addition to the core program specified by the course rules. A stream will appear with the award course name on testamurs, e.g. Bachelor of Engineering in Civil Engineering (Construction Management). (See also Award course, Major, Minor.)

Student

Student means a person enrolled as a candidate for an award course or unit of study.

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 which 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 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.

Т

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 feepaying 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 [#discon||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 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.

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.

USYDnet

The University of Sydney's intranet system. It provides access to other services such as directories (maps, staff and student, organisations), a calendar of events (to which staff and students can submit entries), and a software download area.

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

An intensive session offered by the University during the mid-year break.

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:

$$WAM = \frac{\sum (W_c \times M_c)}{E0W}$$

Where Wc is the weighted credit point value - ie, 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 Mc 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 1 January 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.)

Glossary

WAM weight

A weight assigned to each unit of study to assist in the calculation of WAMs.

Υ

Year of first enrolment (YFE)

The year in which a student first enrols 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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The following information is a printed version of the information available through Handbooks Online, on the University of Sydney website. Please visit "<u>http://www.usyd.edu.au/handbooks/"</u> for the most current handbooks information.

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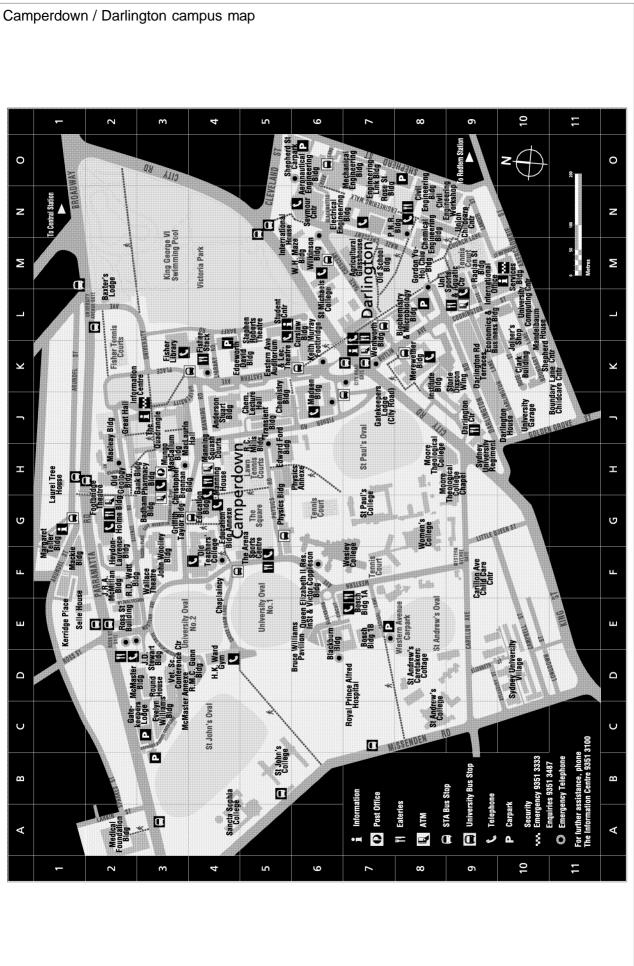
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University Buildings

- Aeronautical Engineering Building 06
- Anderson Stuart Building J4
- Badham Building G3
- H3 Bank Building
- Baxter's Lodge L2
- Biochemistry and Microbiology Building 1.8
- E6 Blackburn Building
- E7 Bosch Building 1A
- Bosch Building IB E7
- Bruce Williams Pavilion E6
- L6 Carslaw Building
- F4 Chaplaincy
- M8 Chemical Engineering Building
- Chemistry Building J5
- H3 Christopher Brennan Building
- Civil Engineering Building N8
- Civil Engineering Workshop N9
- K10 Clark Building
- Darlington Centre J9
- J10 Darlington House
- Darlington Road Terraces K9
- K5 Eastern Avenue Auditorium and Lecture Theatre Complex
- L9 Economics and Business Building
- Edgeworth David Building K4
- Education Building G4
- Education Building Annexe G4
- Edward Ford Building H5
- Electrical Engineering Building N7
- Engineering Link Building N7
- Evelvn Williams Building C3
- Fisher Library K3
- K4 Fisher Library Stack
- C3 Gatekeeper's Lodge
- Gatekeeper's Lodge J7 (City Road)
- Gordon Yu-Hoi Chui Building M8
- J2 Great Hall
- G3 Griffith Taylor Building
- D4 H.K.Ward Gymnasium
- Hev don-Laurence Building F2
- Holme Building G2
- Institute Building K8
- N5 International House
- J.R.A.McMillan Building F2
- LD.Stewart Building D3
- John Woolley Building F3
- Fl Mackie Building
- H3 MacLaurin Hall
- Macleay Building H2
- Margaret Telfer Building Gl
- 16 Madsen Building
- H4 Manning House
- H4 Manning Squash Courts
- D3 McMaster Annexe

- D3 McMaster Building
- 06 Mechanical Engineering Building

A4 Sancta Sophia College

St John's College

St Paul's College

Selle House

F7 Wesley College

Brennan

H3 Pharmacv

Cultural Venues

Education

L6 McGrath (Carslaw)

G2 Footbridge Theatre

Macleav Museum

Sevmour Centre

M6 Tin Sheds Gallery

Faculties (offices)

Agriculture

Engineering

D3 Veterinary Science

Medicine

Pharmacv

Science

M6 Architecture

Badham

Madsen

Medical

Physics

N6 Music

Burkitt-Ford

Engineering

Mathematics

S chaeffer Fine Arts

Australia Post Office

Darlington Centre

Holme Building

Manning House

Bank Building

Curriculum Resources

Libraries

M6 Architecture

Nicholson Museum

Sir Hermann Black Gallery

War Memorial Art Gallerv

Economics and Business

Education and Social Work

G8 Women's College

C8

B5

L6

G7

G3

G4

K3 Fisher

N7 Link

H2

N6

K7

J2

F2

H3 Arts

K8

G4

N7

H5

H3

L6

G3

H5

K3

N8

K3 Fisher

J6

L6

E7

H6

H5

H3

H3

G2

H4

J9

Retail

J3

El

St Andrew's College

St Michael's College

D10 Sydney University Village

Computer Access Centres (ITS)

F5

M9

K7

M9

M9

D3

K7

D4

H4

F5

G5

E5

E3

M9

K7

M9

M9

G2

F3

F1

G1

F1

H3

J3

L9

H3

L5

G1

G4

K8

C3

H2

Security

The Arena Sports Centre

University Copy Centre

Wentworth Building

M10 Emergency Services

J3 Information Centre

M10 Traffic and Parking

K2 Fisher Tennis Courts

H5 Lawn Tennis Courts

The Square

M10 Lost Property

University Health Service

University Co-op Bookshop

Sports and Recreational Venues

HK Ward Gymnasium

Manning Squash Courts

The Arena Sports Centre

University Sports and Aquatic Centre

Students' Representative Council (SRC)

Representative Association (SUPRA)

University Administration and Services

Centre for Continuing Education

H3 Development, Alumni Relations and Events

Unions and Associations (offices)

Sydney University Sport

Business Liaison Office

Careers Centre

Cashier

Chancellor

L10 Computing Centre

H2 Executive Offices

G1 Personnel

M10 Development Services

Information Centre

International Office

M10 Printing Services (UPS)

H2 Publications Office

F1 Scholarships Unit

Student Centre

Student Housing

Summer School

Vice-Chancellor

Student Services Unit

Veterinary Hospital and Clinic

Research Office

L10 Information Technology Services

M10 Room Bookings and Venue Management

MAPS

University of Sydney Union

Sydney University Postgraduate

University Oval No1

University Oval No2

Veterinary Hospital and Clinic

University Sports and Aquatic Centre

- Medical Foundation Building A2
- K8 Merewether Building
- H3 Mungo MacCallum Building
- H2 Old Geology Building
- M7 Old School Building
- F4 Old Teachers' College
- H3 Pharmacy Building
- H6 Physics Annexe
- G5 Physics Building
- N8 P.N.R.Building
- E6 Oueen Elizabeth II
- Research Institute
- H5 **R.C.Mills Building**
- F2 R.D.Watt Building
- D4 R.M.C.Gunn Building
- M9 Raglan Street Building
- Rose Street Building N7
- E2 Ross Street Building
- G2 Science Road Cottage
- El Selle House
- M10 Services Building
- Seymour Centre N6
- K10 Shepherd Centre
- Shepherd Street Carpark 06
- L5 Stephen Roberts Theatre
- K9 Storie Dixson Wing
- F5 The Arena Sports Centre
- The Ouadrangle J3
- J5 Transient Building
- L10 University Computing Centre
- J10 University Garage
- University Sports and Aquatic Centre M9
- D3 Veterinary Science Conference Centre
- Victor Coppleson Building E6
- Wallace Theatre F3
- K7 Wentworth Building
- E7 Western Avenue Carpark
- W.H.Maze Building M6

Childcare Centres

K11 Boundary Lane

J10 Darlington House

L10 Mandelbaum House

Carillon Avenue

Laurel Tree House

International House

F4

N8

F9

HI

K9

N5

N9 Union

M6 Wilkinson Building

Academic Colleges (offices)

H5 Health Sciences

Sciences and Technology

Darlington Road Terraces

Humanities and Social Sciences

Colleges and Residential Accommodation