

## Faculty of Medicine

### A Message from the Dean

It is my pleasure to welcome you to the Faculty of Medicine at the University of New South Wales.

I would like to focus on who we are and what we stand for. An underlying principle at UNSW, and especially in the Faculty of Medicine, is the link between teaching and research. Our staff tell us that they want to work with us because they have the opportunity to pursue their research and to teach. In addition, many of our staff are doctors and other health care professionals who make major contributions to the delivery of clinical care, particularly in the public hospital system. As well as our full-time salaried staff, more than a thousand doctors attached to hospitals and working in the communities have unpaid conjoint appointments with us and make enormous contributions to teaching and research.

UNSW Medicine has a strong presence at the Kensington campus. In addition, staff and students are based in teaching hospitals in Sydney, Wollongong and regional and rural areas, especially Albury/Wodonga, Wagga Wagga, Coffs Harbour and Port Macquarie.

The Undergraduate Program in Medicine is a central focus. We also have undergraduate programs in Health and Exercise Science, and in Medical Science. There is a diverse array of postgraduate coursework programs such as the Masters in Public Health. Postgraduate research focuses on research masters, PhD and MD programs in all of the clinical, basic science and social science disciplines.

Our students are another rich resource in the Faculty. There is a broad mix of students from many backgrounds and metropolitan, rural and international students are all represented in large numbers. Our teaching and learning methods encourage a student-centred approach and acknowledgement that our staff and our students are our two richest resources.

We remain committed to a learning environment where research and teaching are closely intertwined and where we have close relationships with the healthcare system.

Once again, welcome to the Faculty of Medicine. I hope that you will find the information that you need by browsing through these pages. Should you wish to ask a more specific question, do not hesitate to contact the Faculty Office.

Professor Richard Henry  
Acting Dean

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## Faculty Information and Assistance

### Who Can Help?

This section of the Handbook is designed as a detailed source of information in all matters related to the Faculty of Medicine.

If you require advice about enrolment, degree requirements, progression within Programs or with any other general Faculty matter, contact one of the following people located in the Office of the Dean (map reference B27), Faculty of Medicine:

#### Undergraduate

Justin Joynes  
Administrative Officer  
Faculty of Medicine  
Tel: (02) 9385 2459  
Email: j.joynes@unsw.edu.au

#### General and Admission Enquiries

Office of the Dean  
Faculty of Medicine  
Tel: (02) 9385 8765  
Fax: (02) 9385 1874  
Email: info@notes.med.unsw.edu.au.

#### Elective term/Clerkships

Peter Herring  
Administrative Assistant  
Faculty of Medicine  
Tel: (02) 9385 2452  
Email: p.herring@unsw.edu.au

## Faculty of Medicine Website

The Faculty of Medicine's website address is [www.med.unsw.edu.au](http://www.med.unsw.edu.au)

This website provides information about programs, courses, research interests, news and current events. The website also contains links to all the schools, units, centres and the affiliated research institutes of the Faculty, as well as staff, student and alumni information resources. The Faculty maintains many PC and Macintosh computer laboratories for student access, both on campus and in the Faculty's teaching hospitals. Students can access the web, email, MS Office and educational applications from these computers.

## Course Descriptions

Descriptions of courses offered in 2006 can be found in alphabetical order by the course code at the back of this Handbook or in the Online Handbook at [www.handbook.unsw.edu.au](http://www.handbook.unsw.edu.au)

## The Faculty

The Faculty of Medicine was established when the NSW Government accepted a proposal of the Murray Committee of Inquiry into the Future of Australian Universities and announced in December, 1957, that a second medical school in NSW would be established within the re-named University of New South Wales.

The Faculty's first students enrolled in 1961 and 25 of these graduated from the six-year program in 1966. A five-year undergraduate curriculum was introduced in 1974. Although this was a highly successful curriculum, a number of changes in both the hospital and health systems indicated the need for the Faculty to extend the program to a six-year curriculum in 1988. 2004 saw the beginning of a new six year Medicine program designed to suit the needs of 21st century graduates.

The Faculty of Medicine consists of all members of the academic staff, both full-time academics as well as conjoint and adjunct appointees from teaching hospitals, student representatives and other persons nominated by the Faculty. The Presiding Member is elected biennially from the professors and associate professors of the Faculty.

The Dean is the principal channel of communication between the Faculty and the University on administrative matters. The Dean and the Faculty are supported by a number of committees, some of which perform administrative tasks, while many assist in maintaining a constant review of the curriculum and the objectives of medical education.

## Goals of the Faculty

The primary mission of the Faculty is the pursuit of excellence in medical and biomedical education within a scholarly environment of research and discovery.

## Application Procedures

Details on application for entry into UNSW medicine programs for both local students and international students can be found on the Faculty's website at [www.med.unsw.edu.au](http://www.med.unsw.edu.au)

## Selection into the Medicine Program

The Faculty of Medicine implemented new admissions criteria for entry into the UNSW medicine programs from 2003 for both local and international students. Students are selected on the basis of academic merit, results of the Undergraduate Medicine and Health Sciences Admission Test (UMAT) and performance at an interview. Some international applicants are exempt from sitting UMAT due to their place of residence. Further details of the selection process can be found on the Faculty's website at [www.med.unsw.edu.au](http://www.med.unsw.edu.au)

## International Students

International applicants may only compete for entry as either fee-paying students or as holders of a scholarship awarded by the Australian Government. Enquiries regarding admission of international students should be directed either to UNSW International (tel: +61 2 9385 6996 email: [internationaloffice@unsw.edu.au](mailto:internationaloffice@unsw.edu.au), website: [www.international.unsw.edu.au](http://www.international.unsw.edu.au)) or the Admissions Officer, Faculty of Medicine, both at the University of New South Wales, Sydney NSW 2052, Australia. Enquiries regarding Australian Government scholarships should be directed to the local Australian Diplomatic Mission or see [www.ausaid.gov.au](http://www.ausaid.gov.au)

## Admission of Indigenous Students

The Faculty may admit suitably qualified Aboriginal and Torres Strait Islander people. A pre-Medicine program, run for one month, is part of the preparation and selection processes for indigenous students applying

for the Medicine program. Further information regarding the admission criteria may be obtained from the Faculty's Indigenous Health Unit on (02) 9385 3677.

## Admission of Disadvantaged Students (ACCESS Scheme)

The Faculty may admit, within quota, a number of students whose education has been disadvantaged over a two-year period by circumstances beyond their control. Further information may be obtained from the Admissions Office on (02) 9385 3089.

## Rural Student Entry Scheme

The Faculty sets aside places in its Medicine program intake each year for students of rural origin who are able to demonstrate to the Faculty that they meet a number of selection criteria. The scheme is designed for high school, undergraduate and graduate students. It is expected that students who gain entry via the Rural Student Entry Scheme will be allocated to a rural hospital and undertake the majority of their final three years in rural hospitals. Further information may be obtained from the Faculty's Rural Health Unit on (02) 9385 3250 or the website [www.rural.med.unsw.edu.au](http://www.rural.med.unsw.edu.au)

## Assumed Knowledge

There are no prerequisites for entry into the new Medicine program. However there is assumed knowledge of English. Assumed knowledge is a level of achievement at the HSC (or equivalent) considered desirable for successful study in a program or first year course. Students who do not have the assumed level of knowledge are not prevented from enrolling, but may be placed at a considerable disadvantage. It is assumed that upon enrolment students have an adequate command of English language and communication skills.

## Costs in Addition to Fees

In all UNSW medicine programs, there are costs in addition to fees. The following is an estimate, based on students' experience, of the expenditure which is likely to be incurred over the full length of the program. The amounts quoted are subject to some variation.

	<b>\$ approx.</b>
Textbooks	1,750
Two coats (1 laboratory, 1 hospital)*	70
Stethoscope	80-300
Ophthalmoscope	180-250
Laboratory Manuals	200
Miscellaneous (papers, pens, kits, diagnostic equipment and aids, etc.)	350

*\*One long white coat is required for use in practical classes and one short coat for use in the hospitals.*

## Advice to Students on Computing Requirements and Email Policy

For details on computer recommendations and specifications see the *IT Requirements for UNSW Students* policy at: [www.its.unsw.edu.au/policies/policies\\_home.html](http://www.its.unsw.edu.au/policies/policies_home.html)

All official email from the Faculty of Medicine will be sent to students' UNSW email accounts. It is expected that all UNSW students will either routinely check their UNSW email account or have their UNSW email account forwarded to another email address. Information about managing your UNSW email account can be obtained from: [www.disconnect.unsw.edu.au](http://www.disconnect.unsw.edu.au)

## Attendance at, and Residence in, Hospitals

From Year 1, students attend hospitals for clinical teaching. For Years 1 to 3 (Year 4 from 2007), students are allocated to a large teaching hospital in Sydney known as their "home hospital". During the final three years, students are required to undertake some terms in hospitals other than their home hospital. These terms are in other hospitals in Sydney and also in selected larger country hospitals. It is expected that students who gain entry via the Rural Student Entry Scheme will be allocated to a rural hospital and undertake at least 12 months of their final two years in rural hospitals. Other local students may have the option or be required to undertake at least 12 months of studies in rural hospitals. International students are not usually given this option of undertaking an extended placement in rural hospitals. However all students should expect at least 4 weeks in a rural rotation. The Faculty will always consider the personal preferences of students in their allocation to home hospitals and to other hospitals on rotation. However, the Faculty reserves the right to allocate students to hospitals that are not their first preference. Students

considering applying for entry into a UNSW medicine program must take this into consideration and be willing to undertake their training in a range of hospital and health care facilities. The Faculty's policy on 'Allocation of Students to Clinical Locations' can be found on the website at [www.med.unsw.edu.au](http://www.med.unsw.edu.au)

### Intern Placement and Registration

Each medical graduate seeking registration as a medical practitioner in NSW must complete a period as an intern in a hospital or institution approved by the NSW Medical Board. Before taking up an intern appointment, a graduate must obtain a certificate of conditional registration from the Medical Board.

Intern placement is the responsibility of the Postgraduate Medical Council of the NSW Department of Health. Information concerning intern placement and conditional registration is issued to each student by the Office of the Dean during the final year. Information may also be obtained from:

**Internship:** The Postgraduate Medical Council, Gladesville Hospital Campus, Victoria Road, Gladesville NSW 2111, Tel: 9817 0551 or see [www.pmc.nsw.org.au](http://www.pmc.nsw.org.au)

**Registration:** The Registrar, Medical Board of New South Wales, Gladesville Hospital Campus, off Punt Road, Gladesville, Tel: 9879 6799 or see [www.nswmb.org.au](http://www.nswmb.org.au)

#### Part-time Training and Deferment of Internship

The NSW Medical Board has no objection, in principle, to interns undertaking up to one-half of their internship on a reduced daily hours basis, or deferring internship in limited circumstances. Interns considering these options should contact the Board for further details.

### Criminal Record Check

The NSW Department of Health has a policy that all students undertaking clinical placements or who require access in any capacity to facilities operated by the Department (this includes all the Teaching Hospitals used by UNSW in its Medicine programs) must undergo a criminal record check prior to employment or placement in the NSW Health System. The check is conducted by the NSW Police Service and is coordinated by the Department of Health and the University. Further details are available on the Faculty's website at [www.med.unsw.edu.au](http://www.med.unsw.edu.au)

Clinical placement in the NSW Health System is a substantial and essential element in all UNSW medicine programs. Students who fail to satisfy the requirements of this check at any point during their enrolment in a UNSW medicine program will be excluded from the program. Depending upon the circumstances at the time, students may be eligible to transfer to another program of the University.

### Working with Children

Under the *Commission for Children and Young People Act 1998* and the *Child Protection (Prohibited Employment) Act 1998*, students who as part of their enrolment are required to have direct contact with children must declare whether they are a 'prohibited person', that is whether they have been convicted of a serious sex offence. It is an offence for a 'prohibited person' to work with children.

Clinical placement in Paediatrics is an essential element in all UNSW medicine programs. Any student who is a 'Prohibited Person' at any point during their enrolment in a UNSW medicine program will be excluded from the program. Depending upon the circumstances at the time, students may be eligible to transfer to another program of the University.

### Students with Blood-borne Viruses and Immunisation for Students

In order to be enrolled in any UNSW medicine programs, students must agree to comply with the Faculty's Immunisation and Blood-borne Viruses Policy, which aims to minimise the risk of medical students contracting or spreading an infectious disease or blood-borne virus, such as HIV, and Hepatitis B or C. Students must also be registered with the NSW Medical Board. Registrants with the Board (including student registrants) who undertake, or could reasonably be expected to undertake, exposure-prone procedures have a professional responsibility to take appropriate steps to know their infective status in relation to blood-borne viruses. All students in all UNSW medicine programs could ordinarily be expected to undertake exposure-prone procedures and all students in the programs must know their infective status. A registrant (student) who is aware he or she has a blood-borne virus infection must not undertake exposure-prone procedures.

Any infective student who knowingly undertakes an exposure-prone procedure or any student who in any other way endangers the health

of patients will be reported to the Medical Board's Impaired Practitioner Program. This may result in registration being withdrawn, which will result in expulsion from UNSW Medicine and the Medicine programs. Such a student would also be subject to the University's Student Misconduct procedures and may further be liable to criminal prosecution if a blood-borne virus is knowingly transmitted.

The Immunisation and Blood-borne Viruses Policy of the Faculty of Medicine is found on the website at [www.med.unsw.edu.au](http://www.med.unsw.edu.au). Students are required to sign a statement indicating that they have read and agree to comply with this policy at the time of enrolment.

### Registration with the NSW Medical Board

Under the Medical Practice Act, all medical students in NSW must be registered with the Board as a prerequisite to undertaking a course of medical study at a medical school in the State. Applications for registration are completed on initial enrolment and upgraded annually. Further details are available on the Board's website at [www.nswmb.org.au](http://www.nswmb.org.au)

### Special Consideration

In order to ensure that students experiencing difficulties which may in turn affect the successful completion of their course assessment are seen and assisted by the Student Affairs Coordinator, a set of guidelines has been established to provide the framework within which the process and operation of a preliminary consideration regime will operate.

These guidelines are publicised in relevant student literature including the Handbook, ensuring that all students in the MBBS program are aware of the availability of assistance and of the details of the process.

**Please note:** This process does not prevent or discourage a student from discussing their circumstances with the Course Coordinator. Further, these guidelines are intended to be preliminary to the operation of the UNSW Special Consideration Policy. Students may at any time prefer to rely on the provisions of that policy.

#### Guidelines:

**A.** Students with a temporary or reversible medical problem or social situation which has impaired their capacity to prepare for or sit for an assessment. Students should approach the Student Affairs Coordinator to explain their situation as soon as possible.

(1) The Student Affairs Coordinator may require a medical certificate or other documentation to support the claim.

(2) The Student Affairs Coordinator will advise the student whether s/he will support their application for special consideration to the Assessment Review Group should it need to be considered.

(3) If special consideration is granted and the student chooses to sit the assessment, the assessment would be marked in the usual way.

(4) If the student passes the assessment, then the matter will be taken no further.

(5) If the student fails the assessment, the Student Affairs Coordinator will attend the relevant Assessment Review Group meeting and present the case for special consideration.

(6) If the Assessment Review Group supports the Student Affairs Coordinator's view that special consideration should be granted, the student will be allowed to re-sit the assessment without penalty, that is as though the next assessment was the first time that the student had attempted the assessment.

(7) No upward grading of a mark will occur – if a student passes the assessment at which s/he was eligible for special consideration the mark received will stand and will not be up-graded.

Please note that for special consideration to be granted in this category, there needs to be a belief that the problem leading to the granting of special consideration will have resolved significantly by the time of further assessment.

**B.** Where a problem occurs during an assessment.

(1) Where this occurs, the Student Affairs Coordinator should be notified at the earliest possible time and within 48 hours of the assessment, unless there are exceptional circumstances.

(2) If the opinion of the Student Affairs Coordinator is that the student was moderately or significantly impaired during the assessment, the Student Affairs Coordinator will represent this opinion at the meeting of the Assessment Review Group.

(3) If the student was able to complete a significant proportion of the examination prior to the acute event occurring, it may be possible to base the student mark on the proportion of the examination completed prior to the problem.

- (4) In other situations the total mark obtained by the student may be the only mark that it is possible to derive.
- (5) If the student obtains a passing performance, then that could be regarded as the student's mark.
- (6) If the student failed that assessment s/he would be allowed to re-sit a subsequent assessment as though this were their first attempt.

### Student Photographs and Identification Badges

In Year 1 of all UNSW medicine programs, each student is required to be photographed during the first session. These photographs are required for School and Faculty purposes. Hospitals also photograph students to produce identification badges, which must be worn in the hospitals.

### Special Note on Working as a Doctor

Working as a doctor is both physically and emotionally demanding. They are exposed to stress and disease. If intending applicants have any concerns about these issues or if they are aware of any reason (such as a chronic illness, a disability or a criminal conviction) or any impairment that might make it difficult to gain medical student registration with the NSW Medical Board or to practise as a doctor after graduating from UNSW, they are urged to speak about these important matters in confidence with one of our independent Faculty advisers. To arrange this, telephone the Faculty's Student Affairs Coordinator on (02) 9385 3547.

### Faculty Student Organisations

#### The University of NSW Medical Society (Medsoc)

The University of New South Wales Medical Society (Medsoc) is the representative body of the medical students of the University. Further information can be found on the website at: [www.medsoc.org.au](http://www.medsoc.org.au)

#### Rural Allied Health & Medical Society (RAHMS)

The Rural Allied Health and Medical Society (RAHMS) is a club for allied health and medical students at UNSW from rural, urban and international backgrounds with an interest in rural, indigenous and international health issues. For further information, contact the Rural Health Unit on (02) 9385 3250 or visit their website on <http://rural.med.unsw.edu.au/rhu.nsf/website/clubs.RAHMS>

## Clinical Learning Environments

### South Eastern Sydney and Illawarra Area Health Service

Website: [www.sesiahs.health.nsw.gov.au](http://www.sesiahs.health.nsw.gov.au)

#### The Prince Henry/The Prince of Wales Hospitals

Barker Street, Randwick 2031  
Tel: (02) 9382 2222, Fax: (02) 9382 2233

The Prince Henry and The Prince of Wales Hospitals were joined under a common management in 1961 to form the principal teaching hospitals for the Medical School of the University of NSW.

The Prince of Wales Hospital has recently undergone a period of major redevelopment to enable all acute services to be accommodated on the Randwick Campus, which it shares with the Sydney Children's Hospital, the Royal Hospital for Women and the Prince of Wales Private Hospital.

The Prince Henry and Prince of Wales Hospitals currently cover all specialties and sub-specialties. In addition, statewide services provided include: Hyperbaric Medicine Unit, Spinal Injuries, Lithotripsy, HIV Special Unit and the Albion Street Centre.

#### Sydney Children's Hospital

High Street, Randwick 2031  
Tel: (02) 9382 1111, Fax: (02) 9382 1777

This is a paediatric tertiary referral hospital serving the whole of the state, one of three such children's hospitals in NSW and is located at the Randwick campus. It has close links through specialist and resident staff with other teaching and associated hospitals. It provides a complete range of paediatric services and has strong links with complementary adult services at Prince Henry and Prince of Wales Hospitals. There are also strong links with community-based child health services and local private practitioners.

#### The Royal Hospital for Women

Barker Street, Randwick 2031  
Tel: (02) 9382 6111, Fax: (02) 9382 6513

The Royal Hospital for Women is the University's principal teaching hospital in obstetrics and gynaecology.

There are approximately 4,000 births annually and over 6,500 gynaecological procedures. It is a specialist hospital for obstetrics and gynaecology and includes a department of neonatal paediatrics. The Hospital has established the Department of Endo-Gynaecology and the Natural Therapies Unit, where natural products are actively researched. The first baby health clinic in NSW, the forerunner of today's Early Childhood Health Centres, was established here in 1906. The State's first Antenatal Clinic was also started at the Royal Hospital for Women in 1912.

The Hospital's Department of Medical Imaging has an international reputation for research and development of ultrasound technique and equipment in obstetrics as does the Gynaecological Oncology Centre, for its work on ovarian cancer and gynaecological malignancy.

#### The St George Hospital & Community Health Service

Gray Street, Kogarah 2217  
Tel: (02) 9350 1111, Fax: (02) 9350 3999

The St George Hospital & Community Health Service is one of Sydney's busiest principal referral hospitals. Designated as a major Trauma Service, the hospital accepts referrals from outside its immediate area as well as serving a local district population of approximately 225,000 (of whom more than 25% were born overseas). It has the busiest Emergency Department in metropolitan Sydney. It is a state-of-the-art hospital which covers all general areas of medicine (excluding heart and liver transplants). A Private Hospital is located adjacent to the campus.

#### The St Vincent's Hospital

Victoria Street, Darlinghurst 2010  
Tel: (02) 8382 1111, Fax: (02) 8382 4142

St Vincent's Hospital is a principal referral hospital operated by the Sisters of Charity. It is an acute general hospital with highly developed specialist units in adult medicine and surgery and diagnostic services. The Hospital provides referral services for NSW and Australia and services for the local community. Specialty services at the Hospital include cardiac transplantation, bone marrow transplantation, a Cancer Care Centre which provides an integrated approach to the management of malignancy, a comprehensive AIDS service and a specialist Palliative Care Institute (Sacred Heart Hospice). Extensive primary and secondary services are also provided to meet the needs of the local community and these include medical, surgical, geriatric and drug and alcohol services.

St Vincent's is part of the integrated campus of the Sisters of Charity which comprises St Vincent's Private Hospital, the Garvan Institute of Medical Research, the Victor Chang Cardiac Research Institute, St Vincent's Clinic and the Centre for Immunology.

#### Calvary Hospital Kogarah Inc

91 Rocky Point Road, Kogarah 2217  
PO Box 261 Kogarah 1485  
Tel: (02) 9587 8333, Fax: (02) 9587 1421

Calvary Hospital Kogarah Inc is an Affiliated Health Organisation conducted by the Sisters of the Little Company of Mary. The Hospital was opened in 1966 and provides multidisciplinary palliative care services for 80 inpatients and day-only admissions. The Hospital has a 20-bed Geriatric Rehabilitation Unit, full multidisciplinary team and therapy gymnasium.

There is a Community Palliative Care Team offering holistic, family-orientated care to people with terminal illnesses within the South Eastern Sydney Area Health Service who choose to live at home. An Outpatient Pain Clinic is available at Calvary for these and other patients. Calvary staff offer a consultative service to nursing homes and private hospitals.

#### The Langton Centre

Corner Nobbs and South Dowling Streets, Surry Hills 2010  
Tel: (02) 9332 8777, Fax: (02) 9332 28700

The Langton Centre is a specialist agency for the treatment of addictions. The Centre provides medicated detoxification, group and individual counselling, and medical and psychological interventions for dependent drug users. The Centre operates a methadone maintenance clinic and a needle and syringe exchange program.

#### St Luke's Hospital Complex

18 Roslyn Street, Potts Point 2011  
Tel: (02) 9356 0200, Fax: (02) 9357 2334

St Luke's Hospital Complex, provides acute hospital, nursing home and aged care services. St. Luke's (Private) Hospital is a 108 bed acute General Hospital providing comprehensive surgical, medical and rehabilitation care. Facilities include operating theatres, an intensive care unit, a day surgery/procedures unit, endoscopy unit, telemetry/sleep studies unit,

rehabilitation unit including hydrotherapy pool and diagnostic radiology service, including CT Scan. It also has a purpose built Day Rehabilitation and Injury Management Centre.

#### **Shellharbour Hospital**

The Shellharbour Hospital has 150 beds and provides emergency, medical, surgical, obstetric and psychiatric services.

#### **Shoalhaven Hospital**

Shoalhaven Hospital is a 143 bed, level 4, district hospital for the Shoalhaven region, providing emergency, elective orthopaedic and plastic surgery, medical, ICU, obstetric, gynaecologic, paediatric, neonatal care as well as rehabilitation services.

#### **Sutherland Hospital Caringbah**

Kingsway, Caringbah 2229  
Tel: (02) 9540 7111, Fax: (02) 9540 7197

The Sutherland Hospital Caringbah, was founded in 1958. It is a general medical, surgical and obstetric hospital, with various sub-specialties. There are also psychiatric and rehabilitation, oncology and day surgery units, a paediatric ward, and a busy emergency department. Based in the rapidly expanding South Eastern suburbs, the hospital serves an approximate population of 200,000.

#### **Sydney Hospital and Sydney Eye Hospital**

Macquarie Street, Sydney 2000  
Tel: (02) 9382 7111, Fax: (02) 9382 7320

Sydney Hospital and Sydney Eye Hospital has an Accident and Emergency Service. It provides inpatient and outpatient services in general medicine, general surgery, orthopaedics, ENT, hand surgery, and ophthalmology (including the Lions Eye Bank and Save Sight Institute), Sydney Artificial Eyes, Sydney Sexual Health Centre, Kirketon Road Centre in Kings Cross and the Langton Centre in Surry Hills.

#### **War Memorial Hospital Waverley**

125 Birrell Street, Waverley 2024  
Tel: (02) 9369 0100, Fax: (02) 9387 7018

War Memorial Hospital, Waverley, is under the governance of the Uniting Church. The hospital runs a geriatric rehabilitation and assessment unit, a rehabilitation outpatients service, a short stay residential respite unit, a day care unit - which provides services for both frail and dementia clients and non-English speaking background groups - and podiatry outpatient services. A hydrotherapy pool supports the inpatient rehabilitation services. The War Memorial Hospital also supports an aged care assessment team, a number of specialist clinics and services, and provides office accommodation for the Waverley Community Team.

#### **Wollongong Hospital**

Wollongong Hospital is the major teaching and referral hospital for the Illawarra Area. It provides emergency care, specialist medical and surgical services, intensive care and major diagnostic, maternal and paediatric services for patients referred from throughout the Illawarra. The Wollongong and Port Kembla Hospitals provide complementary services with all acute services located at the Wollongong Hospital.

The Port Kembla Hospital comprises 52 beds for Rehabilitation and Psychiatry Services, and the Wollongong Hospital with 240 beds provides a full range of tertiary services.

#### **Corrections Health Service**

##### **Long Bay Correctional Centre**

Anzac Parade, Little Bay, 2036  
Tel: (02) 9289 2977, Fax: (02) 9311 3005

CHS provides and coordinates a comprehensive range of health services for people in custody within the NSW Correctional System. Major clinical programs include General Practice and Primary Health Care, General Medicine/Surgery, Mental Health Programs, Drug and Alcohol Services, Population Health, Indigenous People's Health Services, Dental and Imaging Services.

#### **The Sydney South Western Area Health Service**

Website: [www.swsahs.nsw.gov.au](http://www.swsahs.nsw.gov.au)

##### **Liverpool Hospital**

Elizabeth St, Liverpool, 2170  
Tel: (02) 9282 3000, Fax: (02) 6318

The SWSCS is centred at Liverpool Hospital (600 beds), a principal tertiary referral hospital for the South Western Sydney Area Health Service (SWSAHS). It provides services in all the sub-specialties of internal medicine, general surgery including orthopaedics and plastic surgery,

pathology and imaging. It has a Brain Injury Centre and a Cancer Therapy Centre which includes rehabilitation and palliative care.

#### **Bankstown-Lidcombe Hospital**

Eldridge Rd, Bankstown, 2200  
Tel: (02) 9722 8000, Fax: (02) 9722 8570

This is a major metropolitan acute general hospital providing 454 beds and caters for approximately 30,000 inpatient separations per year. The hospital offers services such as general medicine and surgery, obstetrics, paediatrics, emergency, intensive care, day surgery, endoscopy, psychiatry, neonatology, pathology and imaging.

#### **The Greater Southern Health Service**

##### **Wagga Wagga Base Hospital**

PO Box 159, Wagga Wagga NSW 2650  
Tel: (02) 6938 6666, Fax: (02) 6921 8243  
Website: [www.gmahs.nsw.gov.au](http://www.gmahs.nsw.gov.au)

Wagga Wagga Base Hospital is a 220 bed acute regional hospital and has specialists in most major disciplines (medicine, paediatrics, surgery, orthopaedics, anaesthetics, obstetrics and gynaecology, ENT, ophthalmology, geriatrics rehabilitation, psychiatry and emergency medicine). The Base Hospital is a significant teaching hospital boasting registrars in medicine, surgery, orthopaedics, anaesthetics, obstetrics and gynaecology and is a primary allocation centre.

##### **Albury Base Hospital**

PO Box 326, Albury NSW 2640  
Tel: (02) 6058 4444, Fax: (02) 6058 4504

Albury Base Hospital is a modern 155 bed facility providing specialist services to the Albury-Wodonga and the surrounding parts of southwestern NSW and northeastern Victoria. The hospital is the designated regional trauma centre for the region, with a catchment population of approximately 150,000 people. The hospital has a suitably appointed and staffed intensive care unit and emergency department, both of which are accredited for training by many of the Specialist Medical Colleges.

##### **Wodonga Regional Health**

P.O. Box 156, Wodonga, VIC 3689  
Tel: (02) 6051 7111, Fax: (02) 6051 7477

The Wodonga Regional Health Service is located in the rural city of Wodonga. Together with the border city of Albury, the Albury-Wodonga district is home to over 90,000 people. The Health Service provides a range of hospital and community health care services including Obstetrics, General Medicine, General Surgery, Acute Care, Paediatrics, Emergency, Mental Health, Medical Imaging and Aged, Rehabilitation and Allied Health care.

##### **Griffith Base Hospital**

PO Box 1013, Griffith NSW 2680  
Tel: (02) 6962 8333 Fax: (02) 6964 1587

Griffith Base Hospital is a 92 bed Base Hospital providing a range of acute specialist services including Emergency Medicine, General Medicine, General Surgery, Paediatric Medicine, Rehabilitation Medicine, ENT, Urology, Paediatric Surgery, Oncology, Obstetrics, Intensive Care, Respiratory Medicine and Rheumatology.

#### **The North Coast Area Health Service**

##### **Coffs Harbour Health Campus**

Pacific Highway, Coffs Harbour, 2450.  
Tel: (02) 6656 7000, Fax: (02) 6656 7010

The new Coffs Harbour Health Campus was opened in November 2001 with capacity for 202 beds and a floor area of approximately 25,800 square metres. Services in the new facility are clustered around the needs of defined groups of patients and clients in four distinct Care Centres, namely the Family Care Centre, the Medical and Therapeutic Care Centre, the Critical and Surgical Care Centre, and the Mental and General Well-being Centre.

##### **Port Macquarie Base Hospital**

Wrights Road, Port Macquarie 2444  
Tel: (02) 6581 2000, Fax: (02) 6580 1110

Port Macquarie Base Hospital was the first privately operated and owned hospital in Australia. This 161 bed hospital opened its doors to the public in November 1994 and is a comprehensive referral hospital for both public and private patients of Port Macquarie and surrounding areas. The hospital provides a 24 hour accident and emergency service; general surgery; orthopaedic surgery; vascular surgery; gynaecology; obstetrics; urology;

ear, nose and throat surgery; renal medicine; oncology; cardiology; thoracic medicine; general medicine; paediatric and neo-natal medicine; psychiatry and emergency medicine. The hospital has been accredited by the Medical Association/Colleges of Physicians, Surgeons, Obstetrics and Gynaecology, Orthopaedics and Psychiatry.

#### **Kempsey District Hospital**

River Street Kempsey. Tel: (02) 6652 6155, Fax: (02) 6563 1557  
Kempsey Campus Coordinator – Dr Leo Smith – Tel: (02) 6562 6188.

This 106 bed acute general hospital provides emergency services, medicine, surgery, psychiatry, rehabilitation and obstetrics. **Durri Aboriginal Medical Service**, located in the Kempsey CBD, is a new state of the art facility providing primary health care for indigenous people.

## **Clinical Learning Environments (Private)**

### **Prince of Wales Private Hospital**

Barker Street, Randwick 2031  
Tel: (02) 9650 4000 Fax: (02) 9650 4695

### **St. George Private Hospital**

1 South Street, Kogarah 2217  
Tel: (02) 9598 5555 Fax: (02) 9598 5000

### **St. Vincent's Private Hospital**

406 Victoria Street, Darlinghurst 2010  
Tel: (02) 8382 7111 Fax: (02) 8382 7234

## **Faculty Units, Centres and Affiliated Institutes**

### **The Bioanalytical Mass Spectrometry Facility**

The Bioanalytical Mass Spectrometry Facility (BMSF) is a UNSW beach-head facility providing research support to investigators on this campus and affiliated teaching hospitals. The BMSF is a major facility for molecular characterisation for the Faculties of Medicine, Science and Engineering at UNSW. The facility is equipped to world class standards enabling all types of mass spectrometry to help answer questions posed by researchers and clinicians. The BMSF is both a research and research-support facility engaged in several areas of study. There are three main overlapping areas of research: large molecule analysis including proteomics, small molecule biomarker research including the monitoring of damage, repair and the cellular changes associated with aging and inflammatory disease, and development of instrumentation and technology for mass spectrometry. The facility offers an analytical service and delivers courses on mass spectrometry and allied topics. The BMSF is in partnership with the Australian Proteome Analysis Facility (Macquarie University) which is funded under the Major National Research Facility Scheme. More information on the BMSF can be obtained at [www.bmsf.unsw.edu.au](http://www.bmsf.unsw.edu.au)

### **Centre for Health Informatics**

The Centre for Health Informatics (CHI) engages in research, development and commercialisation of advanced information and communication technologies for health care delivery. Further information can be obtained at: [www.chi.unsw.edu.au](http://www.chi.unsw.edu.au)

The Centre conducts research and development in 4 broad areas:

- Evidence-based Decision Support - Developing technologies to provide on-line access to clinically relevant information to support decision making by clinicians and consumers.
- Clinical Communications - Understanding how communication fundamentally supports the process of health care delivery, its role in producing errors, and how new technologies can be used to improve communication.
- Home Telecare - uses information, communications, measurement and monitoring technologies to evaluate health status and deliver health care services to the home from a distance to improve clinical outcomes and allow the elderly and the chronically ill to stay at home longer.
- Evaluation - Assessing the effectiveness of new information and communication technologies in improving health outcomes and delivery.

Postgraduate courses in Health Informatics are offered within Masters degrees in the School of Public Health & Community Medicine.

### **Centre for Clinical Governance Research in Health**

Since 1991, the Centre for Clinical Governance Research in Health has undertaken research and evaluation projects on health sector issues. Its

core interest is to investigate issues of policy, governance and leadership in the health sector. The Centre is involved in conducting original research into clinical governance issues, providing a scholarly capability by which to evaluate health sector policies, programs and projects, and contributing to undergraduate medical, postgraduate health services management, and public health and doctoral education. Further information is available at [www.med.unsw.edu.au/clingov](http://www.med.unsw.edu.au/clingov)

### **Centre for Vascular Research**

The Centre for Vascular Research is a multidisciplinary organisation focused on the causation and treatment of occlusive vascular disease and other pathologies with vascular components. This includes projects on angiogenesis in tumour growth and inflammation. The Centre has laboratories in the John Curtin School of Medical Research at the ANU and the Department of Biochemistry and Molecular Biology, Monash University in addition to UNSW on campus and at Prince of Wales Hospital and St George Clinical School. Details of the Centre, structure, group leaders, research directions and opportunities for undergraduate and postgraduate students are available at [www.cvr.net.au](http://www.cvr.net.au)

### **Children's Cancer Institute Australia for Medical Research**

Children's Cancer Institute Australia for Medical Research is an independent institute affiliated with the Faculty of Medicine, UNSW. The Institute was established in 1976 and occupies a 5 storey complex at the southern end of the Sydney Children's Hospital as well as a number of labs and offices in a nearby building. With staff numbers exceeding 120, including Honours and postgraduate scholars of the University, the Institute undertakes laboratory research on malignant disease in children. Research work is organised into seven programs: experimental therapeutics, molecular diagnostics, molecular carcinogenesis, leukaemia biology, stem cell biology, iron metabolism and chelation and Australian Cancer Research Foundation Drug Discovery Program. The Institute is the only independent medical research institute in the country focusing solely on research into the nature, origin, cause and treatment of childhood cancers (particularly leukaemia and neuroblastoma).

### **Garvan Institute of Medical Research**

The Garvan Institute of Medical Research has a staff of 280 including 45 PhD and MD scholars. The Institute is structured into six major research programs - arthritis and asthma, bone and mineral, cancer, neurobiology, metabolism and diabetes and pituitary disorders - which are funded through program and Project grants from the National Health and Medical Research Council. Located on the St Vincent's Hospital Campus, the Garvan Institute focuses on the molecular basis of health and disease, integrating a range of basic laboratory based research approaches together with extensive clinical research. Further information is available at [www.garvan.org.au](http://www.garvan.org.au)

### **National Centre in HIV Epidemiology and Clinical Research**

The National Centre in HIV Epidemiology and Clinical Research (NCHECR) is recognised worldwide as a leader in HIV/AIDS research. The NCHECR undertakes research into HIV/AIDS that focuses on epidemiology, clinical research and clinical trials, in collaboration with other research centres, government departments, the pharmaceutical industry, community groups, health clinics and general practitioners. The priorities of the NCHECR include surveillance and monitoring of HIV infection and AIDS, epidemiological studies of transmission and disease progression, identification of social and behavioural factors affecting HIV disease and the establishment of Australia as a primary site for clinical trials of HIV therapy. As an extension of its role in HIV/AIDS, the Centre also carries out epidemiological and clinical research into other blood borne viruses, particularly Hepatitis C and sexually transmitted infections. Another significant area is the NCHECR's contribution to international clinical research and provision of research expertise and training to countries of the Asia-Pacific region. Recently the Centre has increased its role in the development and testing of novel vaccines for HIV. More information can be obtained from the Centre's website: [www.med.unsw.edu.au/nchechr](http://www.med.unsw.edu.au/nchechr)

### **National Perinatal Statistics Unit**

The National Perinatal Statistics Unit (NPSU) is a collaborating unit of the Australian Institute of Health and Welfare based at the University of NSW. The NPSU is located on the Randwick Hospital Campus within the School of Women's and Children's Health. The NPSU maintains national perinatal and reproductive health data collections based upon

data supplied by the States and Territories. An assisted conception data collection is also held based upon data supplied by IVF and GIFT Units from Australia and New Zealand. The NPSU in collaboration with States and Territories and various professional, government, non government and consumer groups are involved in the continuing development of national reproductive and perinatal health data systems. The NPSU's objectives are to monitor and interpret national reproductive and perinatal health data, to conduct teaching and research in perinatal and reproductive health and research in perinatal and reproductive health.

### National Drug and Alcohol Research Centre

The National Drug and Alcohol Research Centre (NDARC) was established at UNSW in May, 1986 and officially opened in November, 1987. It is funded by the Commonwealth Government as part of the National Drug Strategy (formerly, the National Campaign Against Drug Abuse). NDARC is situated on the UNSW Randwick campus in the eastern suburbs of Sydney. The centre is multidisciplinary and collaborates with medical, psychology, social science and other schools of the University, and with other institutions and individuals in Australia and overseas. The overall mission of NDARC is: by research and related activities to contribute to the minimisation of the harmful consequences of alcohol and other drugs used in Australia by increasing the effectiveness of the Australian treatment response to drug-related problems. Further information is available at <http://ndarc.med.unsw.edu.au>

### Prince of Wales Medical Research Institute

The Prince of Wales Medical Research Institute is an independent institute affiliated with the University. Since its opening in 1993, it has grown to become one of the largest aggregates of research nationally on the functions and disorders of the brain and nervous system. It has a staff of more than 100. In 2003, it established the Mayne Clinical Research Imaging Centre based on a 3T machine. Major lines of research include human sensation and motor cortex function, balance and movement; autonomic nervous system; nervous system morphology (brain "atlases"); Alzheimer's, Parkinson's and other neuro-degenerative diseases; macular degeneration and blindness; clinical neurophysiology; nerve and spinal cord injury; child injury; chronic pain; and role of steroids in maintaining or altering functions of the nervous system. For further information visit the Institute's website at: [www.powmri.edu.au](http://www.powmri.edu.au)

### Simpson Centre for Health Services Research

The Simpson Centre is a NSW Government funded Research Centre with a strong history of applied research and health service innovation. The genesis of the Simpson Centre was in response to increasing pressure for practical solutions to improve acute services. This has now expanded to include research across traditional boundaries linking acute medical and community based health care delivery. The principal objectives of the Simpson Centre are to: innovate, evaluate research and develop health service systems; disseminate research results and facilitate implementation of validated service innovation. This approach also incorporates examination of cultural and psychosocial factors influencing service delivery and utilisation.

### Skin and Cancer Foundation Australia

The Skin and Cancer Foundation was established in 1978 and is affiliated with St. Vincent's Hospital. A broad range of clinics is devoted to the diagnosis and treatment of skin cancer, psoriasis, contact dermatitis, vitiligo and pigmented skin lesions. There is a large dermatopathology service. Clinical trials as well as research in occupational dermatoses and histopathology are pursued. The Foundation provides sunscreen testing and irritancy testing for new products.

The Foundation has a Westmead branch which provides sunscreen testing and irritancy testing for new products as well as being the main centre for dermatological surgery.

### Victor Chang Cardiac Research Institute

The VCCRI was established in 1994 to honour the vision and memory of the late Dr Victor Chang. It is a member of the St Vincent's Hospital Campus. It aims to conduct the highest quality fundamental research into cardiovascular diseases, with a major emphasis on the prevention, diagnosis and treatment of heart muscle diseases. It currently has active research programs in molecular cardiology relating to the mechanisms of cardiac hypertrophy and signal transduction; developmental biology, gene regulation and enzyme research; the genetics of cardiovascular diseases; cardiac arrhythmias and mechanics; transplantation biology; vascular bioengineering, and the pathophysiology of cardiac ischaemia and coronary stenosis.

### Rural Health Unit

The Rural Health Unit was established in 1995 to help address the chronic shortage of doctors in rural areas. Since this time the Unit has seen a rapid growth in personnel and student activities.

The principal areas of responsibility of the Rural Health Unit are:

- administration of special entry schemes, such as the Rural Students Entry Scheme (RSES);
- promoting Medicine and allied health to rural high school students;
- administration and support of RAHMS, the Rural Allied Health & Medical Society;
- supporting rural students in Medicine;
- encouraging and supporting students who are interested in pursuing a career in rural health;
- promoting rural health through various avenues, eg. the media and lobbying to the government; scholarships, cadetships, bursaries;
- promoting rural health as a viable alternative to urban based medical practice;
- providing a forum for communication between metropolitan and rural health professionals, eg. workshops;
- conducting research into rural health issues and rural curriculum in the Medicine program; and
- supporting current students of the School of Rural Health and promoting the School to pre-clinical UNSW based students which will increase the opportunities for rural clinical learning.

For more information please visit the Rural Health Unit website <http://rural.med.unsw.edu.au>

### Indigenous Health Unit

The Indigenous Health Unit works in close collaboration with the Rural Health Unit to:

- promote Medicine to school-age and mature Indigenous students;
- administer the Indigenous Entry into Medicine scheme, including the Pre-Medicine program, a preparation to the medical course;
- select students;
- support students throughout their course;
- develop appropriate curricula (in consultation with Indigenous communities);
- develop partnerships with Indigenous communities;
- coordinate teaching in Indigenous Health to all students within Medicine;
- conduct research into Indigenous Health and assist in building the capacity of others to undertake such research.

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## Program Rules and Information

The Faculty of Medicine introduced an innovative six year undergraduate Medicine program (3802 New Medicine program) that commenced for Year 1 students in 2004. Information below is provided both for this new program and for the existing 3801 Medicine program.

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### 3802 Medicine Program

#### Bachelor of Medicine Bachelor of Surgery MB BS

##### Typical Duration

6 years

##### Minimum UOC for Award

288 units of credit

##### Typical UOC per Session

24 units of credit

### Program Description

This six-year program leads to the award of the degrees Bachelor of Medicine and Bachelor of Surgery - MB BS. This double degree, which is in effect a single degree, may be awarded with Honours Class 1; Honours Class 2, Division I; Honours Class 2, Division II; or at Pass level. The award of Honours is determined on the basis of a student's performance throughout the six year program, obtained by using the weighted mark for specified assessments in the three phases of the program.

Students who have achieved a high standard in their studies may undertake a one year program of supervised research leading to the award of the BSc(Med) Honours. For details, please refer to the program entry for 3831 Bachelor of Science (Medicine) Honours.

### Program Objectives and Learning Outcomes

The objectives of the medicine program are:

- to establish an integrated, interconnected and organised medical knowledge base as a platform for a professional and personal life of learning through experience;
- to develop effective interactions with oneself through reflection; interaction with others through communication; and interaction with information and learning resources through information literacy and critical analysis;
- to develop a set of personal attributes and skills appropriate to the professional practice of Medicine.

These objectives have been translated into a set of educational outcomes; these being eight desired capabilities in graduates of the Medicine program, grouped as follows:

#### Applied Knowledge and Skills

1. Using basic and clinical sciences in medical practice
2. Understanding the social determinants of health and disease
3. Patient assessment and management

#### Interactional Abilities

4. Effective communication
5. Working as a member of a team

#### Personal Attributes

6. Self directed learning and critical evaluation skills
7. Understanding and acting in an ethical and socially responsible manner
8. Development as a reflective practitioner

### Program Structure

The duration of the Medicine program is normally 6 years. It has a modular structure comprising a series of fully integrated courses studied over 27 teaching periods, each of 8 weeks duration. There are 4 teaching periods in Years 1-3 (Teaching Periods 1-4). There are five teaching periods (Summer Teaching Period and Teaching Periods 1-4) in years 4-6. The commencement dates of Teaching Periods 1 and 3 correspond to the beginning dates of the standard UNSW Sessions 1 and 2 respectively, and the Summer Teaching Period generally commences on the first Monday in January. Teaching is integrated across discipline areas. Courses usually correspond to an 8-week module, rather than the sessional arrangement applicable to most UNSW courses. However, in general the standard UNSW program load of 48 units of credit (UOC) per year will apply, with most 8-week courses being treated as 10 UOC.

As part of the program, students are required to satisfy the University's General Education requirements. Please see General Education below.

The program is organised into three phases. **Phase 1** includes an initial Foundations course, followed by 8 x 8 week courses focussing on basic medical sciences in relation to the human life cycle; social, ethical and legal issues related to health care; and early experience in clinical or other health-related environments. During this phase, students will undertake a variety of learning activities involving students from different stages of the program working collaboratively in small groups.

**Phase 2** consists of a minimum of 4 x 8-week courses, with increased clinical content and an emphasis on correlation between prior and current learning.

**Phase 3** consists of a minimum of 9 x 8-week courses with a clinical focus, but still includes relevant content from the basic medical sciences and the social sciences. The sequence of courses in Phase 1 is fixed, but in later phases students will have increasing flexibility to tailor the sequence and content of the courses they undertake to match their interests and needs.

In all phases of the program, students will be required to travel to various clinical environments associated with UNSW, which will be the predominant locations for learning in Phases 2 and 3. These locations include Clinical Schools associated with StVincent's Hospital, Darlinghurst; St George Hospital, Kogarah; the Randwick Campus Hospitals, various locations in the South Western Sydney Clinical School based around Liverpool; and the School of Rural Health, which has campuses in the

Greater Murray and Mid-North coast areas. Throughout the program, students may be attached to multiple sites, which will typically include at least 8 weeks in a non-metropolitan setting.

After completing Phase 1, and typically in Phase 2, students will undertake an Independent Learning Project, equivalent to 3 courses, which unless otherwise negotiated, will be taken consecutively over 4 teaching periods, during which students should also complete 12 UOC of elective courses in a faculty or faculties other than Medicine. This project will offer scope for in-depth study in a variety of possible settings, ranging from laboratory-based work in the biomedical sciences, audits of clinical practice, to - for example - projects dealing with cross-cultural issues or health economics, which may be taken outside the Faculty of Medicine.

Students wishing to undertake a full year of research will be able to enrol in the BSc (Med) Honours program 3831. These students will be exempt from undertaking the Independent Learning Project and will thus complete the combined program over 28 teaching periods in approximately 6.5 years. Exemption from the Independent Learning Project will also be granted to students who have previously completed a research Honours program or higher research degree, or a Master degree with a significant research component, or who can otherwise demonstrate acceptable evidence of independent study or research at a tertiary level. These students will complete the Medicine program over 24 teaching periods.

#### PHASE 1

MFAC1501	Foundations	(12 UOC)
MFAC1502	Society & Health 1	(12 UOC)
MFAC1503	Beginnings, Growth & Development 1	(12 UOC)
MFAC1504	Health Maintenance 1	(12 UOC)
MFAC1505	Ageing and Endings 1	(12 UOC)
MFAC1506	Society and Health 2	(10 UOC)
MFAC1507	Beginnings, Growth and Development 2	(10 UOC)
MFAC1508	Health Maintenance 2	(10 UOC)
MFAC1509	Ageing and Endings 2	(10 UOC)

and

MFAC1511	Phase 1 Portfolio Examination
MFAC1512	Phase 1 End-of-Phase Assessment
MFAC1513	Phase 1 Clinical and Communications Skills Examination

#### PHASE 2

MFAC2501	Society and Health 3	(10 UOC)
MFAC2502	Beginnings, Growth and Development 3	(10 UOC)
MFAC2503	Health Maintenance 3	(10 UOC)
MFAC2504	Ageing and Endings 3	(10 UOC)

and

MFAC2511	Phase 2 Portfolio Examination
MFAC2512	Phase 2 Integrated Clinical Assessment

#### PHASE 2 OR 3

MFAC4501	Independent Learning Project 1	(8 UOC)
MFAC4502	Independent Learning Project 2	(8 UOC)
MFAC4503	Independent Learning Project 3	(8 UOC)

#### PHASE 3

MFAC3501	Clinical Module 1	(10 UOC)
MFAC3502	Clinical Module 2	(10 UOC)
MFAC3503	Clinical Module 3	(10 UOC)
MFAC3504	Clinical Module 4	(10 UOC)
MFAC3505	Clinical Module 5	(10 UOC)
MFAC3506	Clinical Module 6	(10 UOC)
MFAC3508	Clinical Module 8	(10 UOC)
MFAC3509	Clinical Module 9	(10 UOC)
MFAC3510	Clinical Module 10	(10 UOC)

and

MFAC3511	Phase 3 Portfolio Examination
MFAC3512	Phase 3 Integrated Clinical Examination
MFAC3513	Phase 3 Clinical and Correlation Assessment Parts A and B

### General Education Requirements

As part of the program, students are required to complete 12 UOC of General Education courses (unless exempt under UNSW rules) which may be available as sessional courses or in block mode. Students are also required to undertake 12 UOC of elective courses in a faculty or faculties other than Medicine.

For information on available courses, please refer to the General Education section in this Handbook.

## Honours

### Award of Honours

This will be calculated on the basis of a weighted mark for specified assessments in the three phases of the program, together with the marks obtained in General Education courses and courses undertaken outside the Faculty of Medicine.

**Please note:** To be eligible for Honours, students must achieve a grade of Credit or better in the Independent Learning Project, unless they have been exempt from undertaking the project.

The Faculty Assessment Review Group considers the ranked list of students and their marks and decides the cut-off marks for the award of Honours at the various levels. Neither the percentage of the students obtaining Honours at the various levels nor the cut-off marks are predetermined, and the Faculty Assessment Review Group makes its own assessment of the level of academic attainment indicated by the overall program mark.

### Relative Weighting Within Phases

#### Phase 1

End-of-Block Examinations (cumulative) 2  
End-of-Phase Examination 1  
Portfolio Assessment 2  
Clinical & Communication Skills Examination 1

#### Phase 2

Clinical Examination 3  
Portfolio Assessment 3  
Project Marks (best 4 if more than 4) 2

#### Phase 3

Clinical Module Assessments (best 8) 1  
Portfolio Assessment 1  
Clinical and Correlation Examination 2

### Relative Weighting of Phases and Other Components

Phase 1 = 6  
Phase 2 = 4  
Phase 3 = 8  
General Education courses = 1  
Additional courses from other Faculties = 1

## Academic Rules

### Rules of Progression

Assessment in this program is capability based, requiring students to demonstrate their ongoing development with respect to the eight areas of capability. Progression will not be based solely on satisfactory completion of individual courses, nor will it correspond solely to annual stages. Full details are available on the Faculty of Medicine website.

## 3841 Combined Arts and Medicine Program

### Bachelor of Arts Bachelor of Medicine Bachelor of Surgery

#### BA MB BS

#### Typical Duration

7 years

#### Minimum UOC for Award

336 units of credit

#### Typical UOC per Session

24 units of credit

### Program Description

The Arts/Medicine program is an alternative program of study in which, over a seven-year period, a student may complete the degree of Bachelor of Arts, together with the degrees of Bachelor of Medicine and Bachelor of Surgery. A limited number of places is available in this program and these are open only to students who have been accepted for entry into the Faculty of Medicine.

Students who wish to undertake the program should contact the Office of the Dean as soon as possible after receiving their offer of a place in the Medicine Program. Selection of students for the Arts/Medicine program is made approximately two weeks before commencement of Session 1, although students may apply to transfer from the Medicine 3802 program to Arts/Medicine 3841 at the end of Year 1.

## Program Objectives and Learning Outcomes

The Arts/Medicine program is intended for those students who wish to continue their interest and studies in the Arts and Social Sciences during their medical studies.

For the Program Objectives of the MBBS component of the Arts/Medicine program, please refer to the program entry for 3802 Medicine in this Handbook.

## Program Structure

Over a period of seven years, students will be required to fulfil the requirements of the MB BS degree program as well as 66 units of credit in courses offered by the schools/departments/programs within the Faculty of Arts & Social Sciences, including an approved major sequence. A major sequence equals 42 units of credit (usually 12 at Level 1 and 30 at upper level).

For the Program Structure of the MB BS component of the Arts/Medicine program, please refer to the program entry for 3802 Medicine program.

## Honours

Students who have completed the combined Arts/Medicine program are eligible for the award of Honours in the MB BS degree program, based on the weighted mark for specified assessments in the three phases of the MB BS program, together with the marks obtained in the best 24 UOC undertaken in the Faculty of Arts & Social Sciences.

### Relative Weighting of Phases and other Components

Phase 1 = 6  
Phase 2 = 4  
Phase 3 = 8  
Arts Courses (best 24 UOC) = 2

For further details on Honours, please refer to the program entry for 3802 Medicine program.

## Academic Rules

Students in the BA MB BS program will not be required to complete General Education courses or other courses outside the Faculty of Medicine. They will usually complete the requirements for the BA after 4 years. Upon rejoining the Medicine program, they will undertake a short clinical skills refresher course. Students wishing to undertake a full year of research in Arts will be able to enrol in a BA Honours program. Subject to the sequence of courses taken during Phase 2, these students may be exempt from undertaking the Independent Learning Project and could complete the combined program in approximately 7.5 years.

For academic rules and requirements relating to the MB BS component of the Arts/Medicine program, please refer to the program entry for 3802 Medicine in this Handbook.

## 3801 Medicine Program – for continuing students only

### Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery BSc(Med) MB BS

**Please note:** This program is not available to commencing students. Details below are provided for the reference of continuing students only. Prospective students should refer instead to the new Medicine program 3802.

#### Typical Duration

6 years

#### Minimum UOC for Award

288 units of credit

#### Typical UOC per Session

24 units of credit

### Program Description

This six-year program leads to the award of the degrees of Bachelor of Science (Medicine), Bachelor of Medicine, Bachelor of Surgery - BSc (Med) MB BS.

These degrees, which are in effect a single degree, may be awarded with Honours Class I; Honours Class II, Division I; Honours Class II, Division II or at Pass level. The award of honours is determined on the basis of a student's performance throughout the six year program, and is usually obtained by using the weighted average mark for each year, calculated by weighting the courses according to units of credit.

On completion of Year 3 of the six-year program, students also qualify for the degree of Bachelor of Science (Medicine). Students would not ordinarily be awarded the BSc(Med) until the completion of the requirements for the award of the MB BS. However, students who have completed the requirements for the award of the BSc(Med) and are leaving the Medicine Program 3801 (BSc(Med) MB BS), either through their own decision to withdraw or upon exclusion by the University, are eligible to be awarded the BSc(Med) degree at that stage.

Students who have achieved a high standard in their studies may undertake an additional one year program of supervised research leading to the award of the BSc(Med) Honours. For details, please refer to the program description for 3831 BSc(Med) Honours.

### Program Objectives and Learning Outcomes

The objectives of the Medicine program are:

1. To produce a graduate with knowledge of medical and behavioural sciences sufficient to understand the scientific basis of medicine and to go forward with medicine as it develops further.
2. To provide a graduate with the flexibility of outlook and training necessary to progress to any field of endeavour in medicine or related disciplines.
3. To provide education in clinical methods and patient care in the main branches of medicine and surgery so that the graduate could undertake patient care under supervision at the level of an intern.
4. To help the graduates understand professional and ethical principles and to be at all times mindful of the individual's obligations to patients, colleagues and the community.

### Program Structure

#### Year 1

Year 1 is not being offered in 2006

#### Year 2

Year 2 is not being offered in 2006

#### Year 3

Year 3 is not being offered in 2006

#### Year 4

Year 4 of the program is primarily based in the teaching hospitals and comprises 6 terms totalling 39 weeks. Of these weeks, 36 will be spent in hospitals and 3 will be spent on campus. For their time in hospitals, students will work as part of a health-care delivery team. The students' responsibilities as part of that team will be increased gradually as new skills are acquired. The philosophy inherent in education by attachment to a hospital team is important. Learning 'on the job' exposes students to real clinical situations incorporating both the medical and social implications of disease and allows the continued development of counselling skills. Thus, students will learn that hospital care should be linked to continuing care in the community, and that there is much emphasis in modern medicine on rehabilitation to maximise patients' chances of resuming their normal role in society. Reading about pathological processes, combined with team discussion of problem patients, provides the ideal environment for the retention of new knowledge.

The teaching of Population Health and Community Medicine is integrated with clinical studies in the teaching hospitals and is a part of the campus teaching program.

The Pathology course comprises a component of didactic teaching within the framework of the common campus program and a major hospital-based component taught through a tutorial program.

The course of Clinical Pharmacology (Therapeutics) is introduced during the common campus program and reinforced during discussions of patient management as part of student attachments to clinical units.

At the commencement of fourth year, each student will receive a syllabus containing details of the integrated program for Clinical Studies, Pathology, Clinical Pharmacology and Population Health and Community Medicine.

#### Rules of Progression

Students will be required to pass each of four separate segments of the assessment, namely: a pass in the Population Health and Community Medicine continuous assessment, a pass in the Pathology viva and project report (as a combined mark), a pass in a Short Case clinical examination, and a pass in the combined written papers.

Students who have not completed the General Education components of the Medicine program and who otherwise are eligible to progress to Year 5 are not allowed to progress until they have satisfied such requirements.

The medicine course in Year 4 is conducted over both sessions. The UOC indicated below is for a single session only.

MDSG4001 Integrated Clinical and Community Studies (24 UOC)

#### Preparation for Year 6 Elective Term

Arrangements for Elective attachments in Year 6 must be made by the students. Students should commence these arrangements in Year 4, especially those wishing to undertake attachments overseas. See course description for MFAC6001 under Year 6, below.

#### Year 5

Year 5 in 2006 is comprised of five teaching periods, each of eight weeks. (In 2008 and beyond, the Elective will be undertaken in Year 6.) In the first four Teaching Periods students rotate through blocks of teaching in obstetrics and gynaecology, paediatrics, psychiatry, geriatrics, general practice and subspecialties, rather than studying the courses concurrently. For this purpose students are allocated to a particular group (A, B, C, or D) and will follow the program of that group for the year.

The courses studied in Year 5 are:

MFAC5001	Geriatrics/General Practice/Subspecialties	(10 UOC)
OBST5001	Obstetrics and Gynaecology	(10 UOC)
PAED5101	Paediatrics	(10 UOC)
PSYM5001	Psychiatry	(10 UOC)
MFAC5003	Elective	(8 UOC)

#### Assessment and Rules of Progression

The work of each rotating block is assessed during or towards the end of the block. Students will be required to pass all five courses before progressing to Year 6. Course examiners may, in the time between the sitting of term assessments and the meeting of the Assessment Committee, require students to undertake further assessment. A student who fails one term may be required to repeat that term in a six week remedial period following Term 5:4. Students are warned that they may be required to undertake such additional assessment and should take this into account if making travel arrangements for the period after the end of Term 5:4. A student who fails two terms or more will be required to repeat all Year 5 courses.

#### Sequence of Blocks - Group A

Summer Teaching Period: (8 weeks) Paediatrics  
 Teaching Period 1 (8 weeks) Obstetrics and Gynaecology  
 Teaching Period 2 (8 weeks) Psychiatry  
 Teaching Period 3 (8 weeks) Geriatrics/General Practice/Subspecialties  
 Teaching Period 4 (8 weeks) Elective

#### Sequence of Blocks - Group B

Summer Teaching Period (8 weeks) Obstetrics and Gynaecology  
 Teaching Period 1 (8 weeks) Paediatrics  
 Teaching Period 2 (8 weeks) Geriatrics/General Practice/Subspecialties  
 Teaching Period 3 (8 weeks) Psychiatry  
 Teaching Period 4 (8 weeks) Elective

#### Sequence of Blocks - Group C

Summer Teaching Period (8 weeks) Psychiatry  
 Teaching Period 1 (8 weeks) Geriatrics/General Practice/Subspecialties  
 Teaching Period 2 (8 weeks) Paediatrics  
 Teaching Period 3 (8 weeks) Obstetrics and Gynaecology  
 Teaching Period 4 (8 weeks) Elective

#### Sequence of Blocks - Group D

Summer Teaching Period (8 weeks) Geriatrics/General Practice/Subspecialties  
 Teaching Period 1 (8 weeks) Psychiatry  
 Teaching Period 2 (8 weeks) Obstetrics and Gynaecology  
 Teaching Period 3 (8 weeks) Paediatrics  
 Teaching Period 4 (8 weeks) Elective

#### Year 6

The first term for Year 6 in 2006 is an Elective term (MFAC6001) of 8 weeks. The remaining five terms totaling 32 weeks are devoted to the course Integrated Clinical Studies 6 (MDSG6001) of which 30 weeks is based in the Teaching Hospitals and 2 weeks will be spent on campus.

MDSG6001 is conducted over both sessions. The UOC indicated below for this course is for a single session only.

MDSG6001	Integrated Clinical Studies 6	(22 UOC)
MFAC6001	Final Year Elective Term	(4 UOC)

### Academic Rules

#### Supplementary Assessment

Details of assessment requirements are contained in the sections on particular years and courses in the program. The following regulations

relate to supplementary assessment, which apply to all years of the Medicine program.

Course examiners may, in the time between the sitting of an assessment and the meeting of the Assessment Committee, require students to present themselves for further assessment to resolve any doubts as to a student's performance. After the Assessment Committee meets further assessment may be given to allow the Assessment Committee to resolve a doubt. In Years 4 and 6 such additional assessment is usually undertaken in December. Such further assessment may be given when students, through illness or some other acceptable circumstances, have been prevented from taking one or more of the assessments or have been disadvantaged during the assessment.

In Year 5, course examiners may, in the time between the sitting of term assessments and the meeting of the Assessment Committee, require students to undertake further assessment. A student who fails one term may be required to repeat that term in a six week remedial period following Term 5:4. Students are warned that they may be required to undertake such additional assessment and should take this into account if making travel arrangements for the period after the end of Term 5:4.

Further assessment may not be granted when the composite mark accurately reflects failure to achieve the required standard of knowledge and understanding of the course.

## 3840 Combined Arts and Medicine Program – for continuing students only

**Bachelor of Arts Bachelor of Science (Medicine)  
Bachelor of Medicine Bachelor of Surgery  
BA BSc(Med) MB BS**

*Please note: This program is not available to commencing students. Details below are provided for the reference of continuing students only. Prospective students should refer instead to the new Medicine program 3841.*

**Typical Duration**  
7 years

**Minimum UOC for Award**  
336 units of credit

**Typical UOC per Session**  
24 units of credit

### Program Description

The Arts/Medicine program is an alternative program of study, in which, over a seven-year program a student may complete the degree of Bachelor of Arts, with the degrees Bachelor of Science(Medicine), Bachelor of Medicine and Bachelor of Surgery. The Arts/Medicine program is intended for those students who wish to continue their interest and studies in the Arts during their medical studies.

Over a period of seven years, students will be required to fulfil the requirements of the BSc(Med) MB BS degree program as well as 60 units of credit in courses offered by the Schools/Departments/Programs within the Faculty of Arts (including an approved major sequence).

Students who have completed the combined Arts/Medicine degree program are eligible for the award of Honours in the BSc(Med) MB BS degree program, based on weighted performance in courses (excluding those courses not in the normal Medicine program) throughout the combined program. The award of Honours shall be determined on the basis of a weighted aggregate mark, calculated as the sum of weighted aggregate marks obtained in the medical component of the program in accordance with the rules applying to the Medicine program 3801.

### Program Objectives and Learning Outcomes

Program objectives are addressed under the entry for the Medicine program 3801.

### Program Structure

Students are required to undertake all BSc(Med) MB BS courses plus 60 units of credit from the Faculty of Arts (including a major sequence) during Years 1 to 3. A major sequence equals 42 units of credit (usually 12 at Level 1 and 30 at upper level).

For details of available Faculty of Arts specialisations and courses, please refer to the entry for the Bachelor of Arts program 3400.

#### Program Structure

##### Year 1

Year 1 is not being offered in 2006.

##### Year 2

Year 2 is not being offered in 2006.

##### Year 3

Year 3 is not being offered in 2006

##### Year 4

Upper Level Arts major sequence plus additional Arts courses (48 UOC)

##### Year 5

Students join Year 4 of the Medicine program.

### Honours

#### Ranking for the Award of Honours (Program Codes 3801, 3821 and 3840)

Students are ranked on the basis of their performance throughout the undergraduate Medicine program. An overall program mark is calculated for each student using the following procedure:

1. A weighted average mark for each year of the program is determined. This year mark is obtained by weighting each of the courses in the year, according to the units of credit. The course weights for each of the years of the program are shown in Table 1 below.
2. The overall program mark is determined by applying the year weightings listed in Table 2 to the weighted year marks.
3. If a student were required to sit for a supplementary assessment (other than for medical reasons or other exceptional circumstances) the course mark used is that awarded for the original assessment.
4. If a student were required to repeat a year (other than for medical reasons or other exceptional circumstances), the weighted year mark used is that obtained at the first attempt.
5. In the calculation of the average weighted program mark for BSc MB BS students, the aggregate mark for the Science component is calculated as a weighted aggregate of all courses counted towards the Science degree. The course weights are as follows:

Level I courses weighted by a factor equal to 0.0625 per course, except General Mathematics, Fundamental of Physics and Life Science Physics (0.05 per course) and Higher Chemistry and Higher Mathematics (0.07 per course).

Level II courses weighted by 0.1875 per course.

Level III courses weighted by 0.25 per course.

Level IV courses (Honours) not counted.

The three years of BSc component of the BSc MB BS program are treated as equivalent to the first two years of the MB BS program and therefore have a total year weight of 6 relative to the MB BS year weightings.

There is a limit set of 50 for the best possible score in the first year of the BSc component to put all students, whether or not they undertake Higher Mathematics or Physics, on the same footing. Only the best 144 units of credit in the BSc component are considered in calculating the ranked score.

6. Honours calculation for students undertaking the BA BSc(Med) MB BS program is the same as for the BSc(Med) MB BS program, i.e. the courses in the BA component are not counted.
7. Provision is made for students admitted with advanced standing and/or exemptions in certain courses not to be penalised in the calculation of rankings.

#### Award of Honours

1. The Faculty Year 6 Assessment Review Group considers the ranked list of students and their marks and decides the cut-off marks for the award of Honours at the various levels.
2. Neither the percentage of the students obtaining Honours at the various levels nor the cut-off marks are predetermined, and the Committee makes its own assessment of the level of academic attainment indicated by the overall program mark.
3. As a guide, the distribution of the awards of Honours in 2004 was:

##### Class I Honours

Program Mark: 72.49% – 80.33%

Number of Awards: 21

Percent of graduands: 11.5%

##### Class II Div. I

Program Mark: 68.84% – 72.37%

Number of Awards: 29

Percent of graduands: 15.8%

**Class II Div. II**

Program Mark: 66.33% - 68.70%  
 Number of Awards: 23  
 Percent of graduands: 12.6%

**Table 1: Course Weights Within Years (Six Year Program)**

<b>Year 1</b>	
Anatomy	12
Introductory Clinical and Behavioural Studies	8
Biology for Medical Students	4
Biochemistry for Medical Students	12
<b>Year 2</b>	
Medical Biochemistry and Genetics	8
Anatomy 2	14
Medical Physiology 1	16
Human Behaviour	6
<b>Year 3</b>	
Microbiology for Medical Students	8
Pathology	10
Medical Physiology 2	8
Medical Pharmacology	10
Clinical Studies 3	8
Medical Ethics and Health Law	4
<b>Year 4</b>	
Integrated Clinical and Community Studies	48
<b>Year 5</b>	
Obstetrics & Gynaecology	12
Paediatrics	12
Psychiatry	12
Geriatrics/General Practice/Subspecialties	12
<b>Year 6</b>	
Integrated Clinical Studies 6	44

**Table 2: Year Weights**

Year	Weighting
Year 1	2
Year 2	4
Year 3	4
Year 4	6
Year 5	4
Year 6	6

**Academic Rules**

Please consult Faculty or refer to the printed Handbook relevant to your year of commencement of study.

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**3831 Bachelor of Science (Medicine) Honours**

**BSc(Med)Hons**

**Typical Duration**

1 year

**Minimum UOC for Award**

48 units of credit

**Typical UOC per Session**

24 units of credit

**Program Description**

This is a one-year research program offered to students in the six-year Medicine program who have achieved a high standard in their studies. Those who complete the research program in conjunction with the six-year curriculum, will be eligible for the award of the degree BSc(Med)Hons.

**Program Objectives and Learning Outcomes**

In general the aims of the year, normally spent in supervised research, are to enable the student to acquire an appreciation of the value of observation and research in the development of medical science, to determine the 'current state of knowledge' in a defined field, to provide experience in the written and spoken presentation of scientific information and scholarly research, and to provide an invaluable background in basic research philosophy and techniques on which a subsequent career in specialised medical research may be built. This year enables the student to gain experience in the written and spoken presentation of scientific information

**Program Structure**

Information concerning this program option is issued to medical students mid-year. A list of available research projects may be obtained from the Office of the Dean.

**Academic Rules**

**For candidates in the programs 3801, 3802, 3840 and 3841**

1.(a) Undergraduates who have successfully completed at least the first three years of the six-year Medicine programs 3801 or 3802, or at least the first four years of the seven-year Arts/Medicine programs 3840 or 3841 may enrol for the degree of BSc(Med)Hons in one of the following programs: Anatomy, Biochemistry, Microbiology, Pathology, Pharmacology, Physiology, Psychology or in any other program approved by the BSc(Med)Hons Committee provided that the candidate's performance in the area subject has been of a high standard.

(b) A student may register as a candidate for the degree in any of the Schools of the Faculty of Medicine, the School of Biochemistry, the School of Microbiology or the School of Psychology, subject to the permission of the Head of the School concerned and the BSc(Med)Hons Committee.

2.(a) Medical graduates may enrol for the degree of BSc(Med)Hons in any course approved by the BSc(Med)Hons Committee provided that their performance in the subject area has been of a high standard.

(b) A graduate may be registered as a candidate for the degree in any of the Schools of the Faculty of Medicine, the School of Biochemistry, the School of Microbiology or the School of Psychology, subject to the permission of the Head of School concerned and the BSc(Med)Hons Committee.

3. The program for each candidate shall be designed to introduce the student to research in the appropriate discipline and shall consist of such formal and special work and any examinations prescribed by the BSc(Med)Hons Committee.

**Enrolment/Progression**

1. The Faculty Administrative Officer will arrange the transfer of enrolment after the BSc(Med)Hons Committee has approved the application.

2. Students will be formally reviewed by members of the Committee twice per year. A mid-year verbal report and discussion will take place between the student, supervisors and Committee covering progress in meeting the aims of the research project and any problems encountered by the student and supervisors.

**Assessment Guidelines**

1. The BSc(Med)Hons Committee determines the assessments for the program on the advice of the supervisors and two assessors who are external to the supervisor and at least one being external to the School of enrolment.

2. The compulsory components of the assessment include a thesis, an essay or literature review, two seminar presentations and a supervisors' report.

3. Candidates must take part in the activities of the program by participating in seminars, by presenting of essays or literature reviews and other prescribed activities.

4. A thesis is compulsory and forms a major part of the assessment. The thesis must be typed and suitable for subsequent binding if required. The typescript length of the thesis is normally no more than 20,000 words.

5. Candidates are required to present their research projects in the two seminar presentations organised by the BSc(Med)Hons Committee. For students studying overseas, a computer-generated presentation will be requested in lieu of the mid-year seminar and the members of the Committee will have the right to ask questions of the student by phone or email after viewing the presentation.

6. It is desirable that candidates take part in the activities of the school by participation in seminars and other prescribed activities.

7. The degree of BSc(Med)Hons may be awarded in the following grades: Honours Class I; Honours Class II, Division I; Honours Class II, Division II or no award made.

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**3850 Bachelor of Science in Health and Sports Science**

**BSc**

*Please note: This program is not available to commencing students. Details below are provided for the reference of continuing students only. Prospective students should refer instead to the new program 3870.*

**Typical Duration**

4 years

**Minimum UOC for Award**

192 units of credit

**Typical UOC per Session**

24 units of credit

**Program Authority**

Dr Steve Boutcher

Dept Physiology and Pharmacology

Tel: (02) 9385 2877

Email: s.boutcher@unsw.edu.au

**Program Officer**

Nicole Graham

Tel: (02) 9385 2547

Email: n.graham@unsw.edu.au

**Program Description**

The program offers a comprehensive education in the area of health and exercise with a focus on the use of physical activity as preventative and rehabilitative therapy. Students can choose to specialise in one of three areas of focus: cardiac, musculoskeletal, or neuromuscular rehabilitation. Four years of full-time study, or the part-time equivalent, leads to the award of a Bachelor of Science (in Health and Exercise Science). The Faculty Assessment Review group may award Honours to students who perform throughout the program with merit. The level of performance required for such award will be determined by the Assessment Review Group. Part-time students undertake a reduced program subject to the availability of courses. A total of 192 units of credit must be successfully completed for the award of this degree. Graduates may expect to find employment in sports medicine clinics, rehabilitation clinics and hospitals, Commonwealth, State and Local Government departments, sports academies and institutes, professional organisations, sporting associations, universities, corporate health, private practice, and gymnasiums and fitness centres. In addition it is expected that graduates become members of the professional body the Australian Association of Exercise and Sports Science.

**Program Objectives and Learning Outcomes**

The degree is committed to excellence in teaching in the exercise sciences and in exercise clinical training. The degree is designed to enable students to:

- develop a thorough understanding of the relationship between physical activity and health
- develop a broad range of communication skills and an ability to work as a member and a leader of a team
- develop advanced problem solving skills and a capacity for critical thinking
- attain competencies in conducting a broad range of exercise-based clinical tests
- attain skills and detailed clinical knowledge relevant to cardiac, musculoskeletal, or neuromuscular rehabilitation

**Program Structure**

Stage 1 introduces students to the core science that will serve as a foundation for the following years. Courses include anatomy, histology, chemistry, biology, and psychology. Students will be introduced to the exercise area through three courses: exercise science, lifestyle and health and exercise behavioural science. Stage 2 of the program begins to focus on human physiology, pathology, biochemistry, functional anatomy and exercise physiology while building on the scientific principles acquired in Stage 1. Stage 3 of this multidisciplinary program moves the student towards an integrated understanding of health and exercise and includes courses such as advanced exercise physiology, exercise and health, biomechanics, motor control, cardiac rehabilitation, special populations and clinical movement studies. Stage 4 continues to develop multi-disciplinary expertise through use of specialized courses and a wide range of electives. Electives include courses in clinical exercise physiology, movement rehabilitation, neuromuscular rehabilitation, nutrients and exercise, musculoskeletal diseases and professional practice. Extensive industry experience is a key component of this final year with students participating in practicums in the University's Healthy Lifestyle Clinic and external (including hospital) placements. Understanding of scientific method is an important component of this program and all students will take a research methods course in Stage 4. Courses offer a mixture of traditional and interactive/case study approaches to learning. General Education is a requirement of all undergraduate courses at this university and can be taken in Stages 2 and 3.

**Stage 1** – not being offered in 2006

**Stage 2****Session One**

ANAT3131	Functional Anatomy 1	(6 UOC)
BIOC2181	Fundamentals of Biochemistry	(6 UOC)
PHPH2501	Physiology for Health and Sports Science A	(6 UOC)
	General Education courses	(6 UOC)

**Session Two**

ANAT3141	Functional Anatomy 2	(6 UOC)
PATH2201	Processes in Disease	(6 UOC)
PHPH2502	Physiology for Health and Sports Science B	(6 UOC)
PHPH2503	Exercise Physiology	(6 UOC)

**Stage 3****Session One**

	General Education courses	(6 UOC)
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Plus a further 6 credit points from:

PHPH3211	Cardiorespiratory and Exercise Physiology	(6 UOC)
PHPH3502	Skeletal Muscle in Health and Exercise	(6 UOC)

**Session Two**

FOOD3330	Nutrition for Sports Science	(6 UOC)
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Plus a further 6 credit points from:

BIOC2291	Fundamentals of Molecular Biology	(6 UOC)
PATH3207	Musculoskeletal Diseases	(6 UOC)
PHPH3131	Neurophysiology	(6 UOC)
PSYC1011	Psychology 1B	(6 UOC)
SCOM2014	Science Communication	(6 UOC)

**Stage 4****Session One**

HESC4501	Research Methods in Physical Activity	(6 UOC)
HESC4511	Practicum A	(6 UOC)
	Electives courses	(12 UOC)

**Session Two**

HESC4521	Practicum B	(6 UOC)
	Elective courses	(18 UOC)

**Stage 4 Electives****Session One**

PHCM9516	Introduction to Public Health	(4 UOC)
PHPH3211	Cardiorespiratory and Exercise Physiology	(6 UOC)
PHPH3502	Skeletal Muscle in Health and Exercise	(6 UOC)
HESC4531	Movement Rehabilitation A	(6 UOC)

**Session Two**

BIOC3261	Human Biochemistry	(6 UOC)
FOOD3440	Advanced Nutrition	(6 UOC)
PATH3207	Musculoskeletal Diseases	(6 UOC)
PHCM9516	Introduction to Public Health	(4 UOC)
PHPH3131	Neurophysiology	(6 UOC)
SCOM2014	Science Communication	(6 UOC)

**Notes on Stage 4**

Electives: Students must select 6 UOC in session 1 and 12 UOC in session 2 from the available electives. In addition, they must select a further 6 UOC of electives in each of session 1 and session 2 so as to provide a total of 48 units of credit in Stage 4. The latter may be any appropriate UNSW courses for which they have satisfied prerequisites, but for the purposes of achieving professional accreditation, students are strongly encouraged to select courses from those listed.

**General Education Requirements**

Students in this program must also satisfy the University's General Education requirements. For further information, please refer to the General Education section in this Handbook.

**Academic Rules**

For the requirements and regulations governing the Bachelor of Health and Sports Science, please refer to Program Structure section above.

**3870 Bachelor of Science in Health and Exercise Science****BSc****Typical Duration**

4 years

**Minimum UOC for Award**

192 units of credit

**Typical UOC per Session**

24 units of credit

**Program Authority**

Dr Steve Boutcher  
Health and Exercise Science  
Tel: (02) 9385 2877  
Email: s.boutcher@unsw.edu.au

**Program Officer**

Sue Cheng  
Tel: (02) 9385 2960  
Email: s.cheng@med.unsw.edu.au

**Program Description**

The program offers a comprehensive education in the area of health and exercise with a focus on the use of physical activity as preventative and rehabilitative therapy. Students can choose to specialise in one of three areas of focus; cardiac, musculoskeletal, or neuromuscular rehabilitation. Four years of full-time study, or the part-time equivalent, leads to the award of a Bachelor of Science (in Health and Exercise Science). The Faculty Assessment Review group may award Honours to students who perform throughout the program with merit. The level of performance required for such award will be determined by the Assessment Review Group. Part-time students undertake a reduced program, subject to the availability of courses. A total of 192 units of credit must be successfully completed for the award of this degree. Graduates may expect to find employment in sports medicine clinics, rehabilitation clinics and hospitals, Commonwealth, State and Local Government departments, sports academies and institutes, professional organisations, sporting associations, universities, corporate health, private practice, and gymnasiums and fitness centres. In addition it is expected that graduates become members of the professional body: Australian Association of Exercise and Sports Science.

**Program Objectives and Learning Outcomes**

The degree is committed to excellence in teaching in the exercise sciences and in exercise clinical training. The degree is designed to enable students to:

- develop a thorough understanding of the relationship between physical activity and health
- develop a broad range of communication skills and an ability to work as a member and a leader of a team
- develop advanced problem solving skills and a capacity for critical thinking
- attain competencies in conducting a broad range of exercise-based clinical tests
- attain skills and detailed clinical knowledge relevant to cardiac, musculoskeletal, or neuromuscular rehabilitation

**Program Structure**

Stage 1 introduces students to the core science that will serve as a foundation for the following years. Courses include anatomy, histology, chemistry, biology, and psychology. Students will be introduced to the exercise area through three courses: exercise science, lifestyle and health, and exercise behavioural science. Stage 2 of the program begins to focus on human physiology, pathology, biochemistry, functional anatomy, and exercise physiology while building on the scientific principles acquired in Stage 1. Stage 3 of this multidisciplinary program moves the student towards an integrated understanding of health and exercise and includes courses such as advanced exercise physiology, exercise and health, biomechanics, motor control, cardiac rehabilitation, special populations, and clinical movement studies. Stage 4 continues to develop multi-disciplinary expertise through use of specialized courses and a wide range of electives. Electives include courses in clinical exercise physiology, movement rehabilitation, neuromuscular rehabilitation, nutrients and exercise, musculoskeletal diseases, and professional practice. Extensive industry experience is a key component of this final year with students participating in practicums in the University's Healthy Lifestyle Clinic and external (including hospital) placements. Understanding of scientific method is an important component of this program and all students will take a research methods course in Stage 4. Courses offer a mixture of traditional and interactive/case study approaches to learning. General Education is a requirement of all undergraduate courses at this university and can be taken in Stages 2 and 3.

**Stage 1**

**Session One**

BIOS1201	Molecules, Cells and Genes	(6 UOC)
CHEM1831*	Chemistry for Health, Exercise, Medical Science	(6 UOC)
HESC1501	Introductory Exercise Science	(6 UOC)
PSYC1001	Psychology 1A	(6 UOC)

**Session Two**

ANAT1511	Introductory Histology for Health and Exercise Science	(3 UOC)
ANAT2111	Introductory Anatomy	(6 UOC)
HESC1511*	Lifestyle, Kinanthropometry, and Health	(6 UOC)
HESC1531*	Exercise Behavioural Science	(6 UOC)
HESC1540*	Growth, Development, and Physical Activity	(3 UOC)

**Stage 2**

**Session One**

ANAT3131	Functional Anatomy 1	(6 UOC)
BIOC2181	Fundamentals of Biochemistry	(6 UOC)
PHPH2501	Human Physiology A	(6 UOC)
	General Education Courses	(6 UOC)

**Session Two**

ANAT3141	Functional Anatomy 2	(6 UOC)
HESC2501	Exercise Physiology	(6 UOC)
PATH2201	Processes in Disease	(6 UOC)
PHPH2502	Human Physiology B	(6 UOC)

**Stage 3**

**Session One**

HESC3504	Physical Activity and Health	(6 UOC)
SESC2451*	Biomechanics for Health and Exercise Science	(6 UOC)
	General Education Course(s)	(6 UOC)

**Plus a further 6 credit points from:**

HESC3561*	Research Topics in Health and Exercise Science	(6 UOC)
HESC3581	Physical Activity in Special Populations	(6 UOC)
PHPH3211	Cardiorespiratory and Exercise Physiology	(6 UOC)
PHPH3502	Skeletal Muscle in Health and Exercise	(6 UOC)

**Session Two**

FOOD3330	Nutrition for Health & Exercise Science	(6 UOC)
HESC3521	Advanced Exercise Physiology	(6 UOC)
HESC3571	Motor Control and Dysfunction	(6 UOC)

**Plus a further 6 credit points from:**

BIOC2291	Fundamentals of Molecular Biology	(6 UOC)
HESC3531*	Cardiac Rehabilitation and Exercise	(6 UOC)
HESC3591*	Research Topics in Health and Exercise Science	(6 UOC)
HESC3611*	Clinical Movement Studies	(6 UOC)
PATH3207	Musculoskeletal Diseases	(6 UOC)
PHPH3131	Neurophysiology	(6 UOC)
PSYC1011	Psychology 1B	(6 UOC)
SCOM2014	Science Communication	(6 UOC)

**Stage 4**

**Session One**

HESC4501	Research Methods in Physical Activity	(6 UOC)
HESC4511	Practicum A	(6 UOC)
	Elective courses totalling	(12 UOC)

**Session Two**

HESC4521	Practicum B	(6 UOC)
	Elective courses totalling	(18 UOC)

**Stage 4 electives\*\***

**Session One**

CMED9516	Introduction to Public Health	(4 UOC)
HESC3581	Physical Activity in Special Populations	(6 UOC)
HESC4531	Movement Rehabilitation A	(6 UOC)
HESC4541*	Clinical Exercise Physiology A	(6 UOC)
HESC4551*	Research Project	(6 UOC)
HESC4560	Professional Practice	(6 UOC)
PHPH3211	Cardiorespiratory and Exercise Physiology	(6 UOC)
PHPH3502	Skeletal Muscle in Health and Exercise	(6 UOC)
SESC4451	Research Projects in Biomechanics	(6 UOC)

**Session Two**

BIOC3261	Human Biochemistry	(6 UOC)
CMED9516	Introduction to Public Health	(4 UOC)
FOOD3440	Advanced Nutrition	(6 UOC)

HESC3531*	Cardiac Rehabilitation and Exercise	(6 UOC)
HESC3611*	Clinical Movement Studies	(6 UOC)
HESC4571	Research Project	(6 UOC)
HESC4581*	Clinical Exercise Physiology B	(6 UOC)
HESC4591*	Neuromuscular Rehabilitation	(6 UOC)
HESC4621*	Movement Rehabilitation B	(6 UOC)
HESC4631*	Nutrients, Metabolism, and Exercise	(6 UOC)
PATH3207	Musculoskeletal Diseases	(6 UOC)
PHPH3131	Neurophysiology	(6 UOC)
SCOM2014	Science Communication	(6 UOC)

\* *new courses (some other courses will have minor modifications such as name change, etc)*

\*\* *offering of electives dependent on student numbers*

#### **Notes on Stage 4**

Electives: Students must select 6 UOC in session 1 and 12 UOC in session 2 from the available electives. In addition, they must select a further 6 UOC of electives in each of session 1 and session 2 so as to provide a total of 48 units of credit in Stage 4. The latter may be any appropriate UNSW courses for which they have satisfied prerequisites.

#### **General Education Requirements**

Students in this program must also satisfy the University's General Education requirements. For further information, please refer to the General Education section in this Handbook.

#### **Academic Rules**

For the requirements and regulations governing the Bachelor of Health and Exercise Science, please refer to Program Structure section above.