

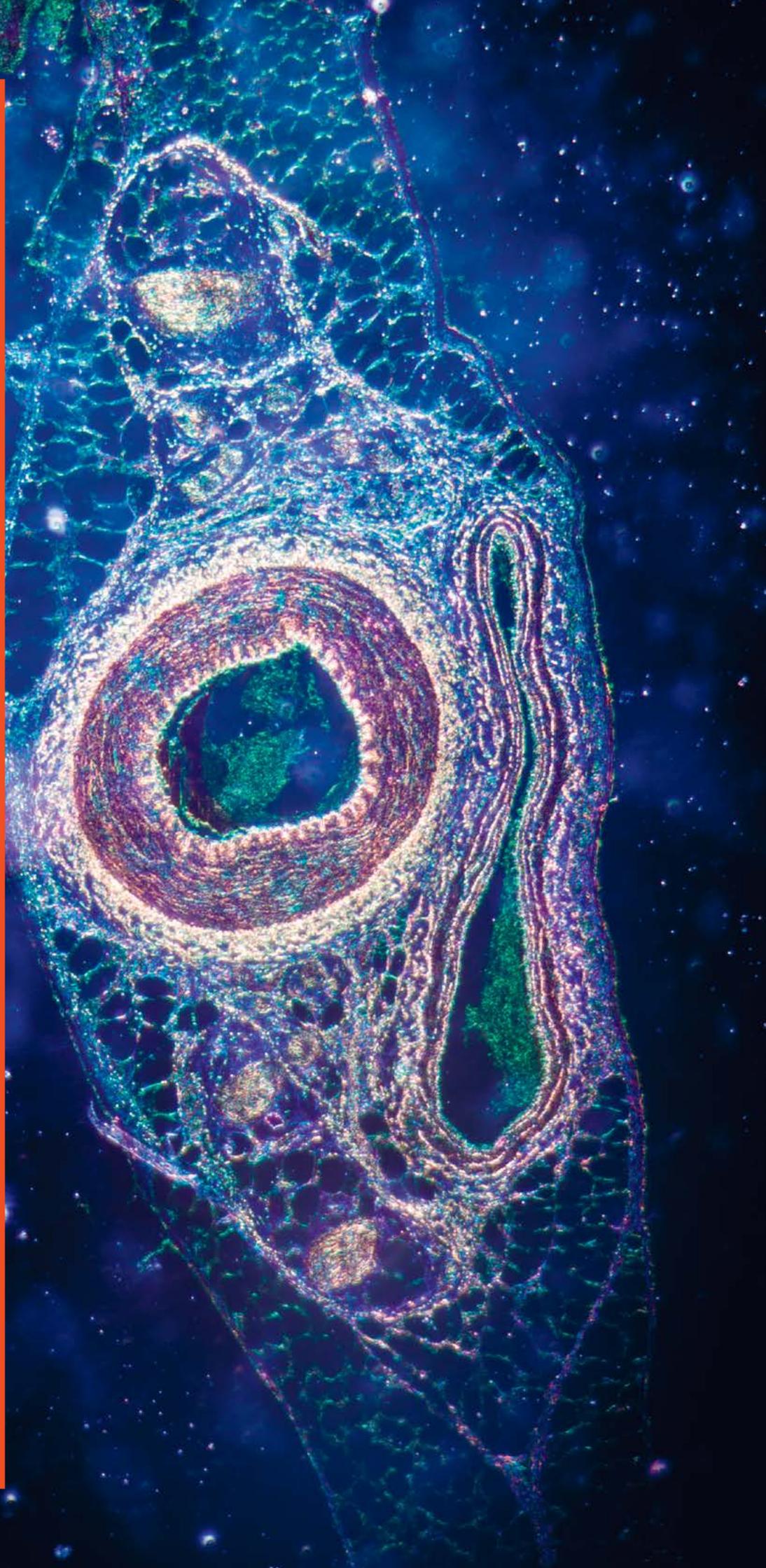
# Professional Medical Education Guide

## Contact us

[sydney.edu.au/medicine/postgraduate](https://sydney.edu.au/medicine/postgraduate)  
+61 2 9351 3132  
[medicine.info@sydney.edu.au](mailto:medicine.info@sydney.edu.au)



THE UNIVERSITY OF  
**SYDNEY**



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Cover image: anthropotomy physiology micrograph of blood vessel, artery and vein.

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About the University of Sydney .....	2
What you can study in 2018.....	4

## Postgraduate courses

Clinical Neurophysiology .....	6
Critical Care Medicine.....	8
Infection and Immunity .....	10
Internal Medicine .....	11
Metabolic Health.....	13
Ophthalmology .....	15
Paediatric Medicine .....	18
Pain Management.....	19
Pharmaceutical and Medical Device Development.....	21
Psychiatry .....	23
Psychotherapy .....	25
Sexual and Reproductive Health .....	26
Sleep Medicine.....	30
Surgery.....	31
How to apply.....	36

# About the University of Sydney

The University of Sydney is Australia's first university. Likewise, its medical school was the first established in this country.

With its multiple campuses and affiliated medical research institutes across the state, the Sydney Medical School is one of the largest health and medical teaching and research institutions in the southern hemisphere.

Our clinical schools are located in major teaching hospitals in the Sydney metropolitan area and in regional hospitals in central-western NSW, far-western NSW and on the state's north coast.

The University has strong partnerships with both public and private sector health services. In 2015, the University joined with Sydney, Northern Sydney and Western Sydney Local Health Districts, the Sydney Children's Hospital Network (Westmead) and medical research institutes to form Sydney Health Partners.

This is recognised by the National Health and Medical Research Council as an Advanced Health Research and Translation Centre.

Sydney Medical School and its affiliated medical research institutes have a large research portfolio encompassing the basic sciences, clinical medicine and public health.

Research programs are focused on the major themes of cancer, cardiovascular disease, obesity, diabetes, neuroscience and mental health, infectious diseases and lifespan health. There is a strong emphasis on interdisciplinary collaboration.

## Why study with us?

The University of Sydney is ranked first in Australia and 15th in the world for the quality of our research and teaching in medicine.\*

Our programs provide education and training of great depth and breadth, not only in discipline-specific areas but also in research methods, communication and teaching methods.

Many of our courses and units of study are endorsed by the relevant professional colleges and some can be credited towards college training requirements. Several units of study are also aimed at preparing candidates for college examinations (see individual course pages for further information).

Our vocational programs are designed with busy professionals in mind. Within our broadly structured programs, you can tailor a course to meet your needs. Most courses are delivered online, with face-to-face teaching in intensive one- or two-day sessions, block mode, or seminars usually outside of business hours. They are regularly updated to ensure they are current and relevant.

\* QS World University Rankings by Subject 2017

## Our courses will help you to:

- gain up-to-date knowledge and skills
- obtain insights from clinical and academic leaders in your chosen fields
- prepare for college examinations and meet college training requirements
- acquire additional skills such as expertise in clinical reasoning and communication and teaching
- develop research skills and experience, such as trial design and grant application writing
- establish a network of contacts with senior clinicians and peers.



## Coursework programs

Master's degrees can be undertaken part time over five years or completed in one year of full-time study.

Graduate certificates and graduate diplomas are available in most courses and it is usually possible to move between these awards and master's programs provided the degree requirements are met.

In some cases, if you do not meet the entry requirements for a master's degree program, the graduate certificate or graduate diploma can provide an acceptable entry pathway.

High-achieving students in the master's programs may be eligible for the advanced option. This provides a closely supervised research opportunity that can be completed part time.

To find the course that matches your interests and eligibility for admission, please visit:

- [sydney.edu.au/medicine/study/postgraduate](https://sydney.edu.au/medicine/study/postgraduate)

## Course structure

The course structure varies slightly between degrees, but the following are some basic principles.

Compulsory units of study usually include Introduction to Clinical Epidemiology, which can be taken at any time during your studies.

The range of stream-specific units is unique to each degree. Elective units can be chosen from the list of elective units or from your stream-specific units of study.

Each unit of study is assigned a certain number of credit points. To qualify for a degree, you need to complete at least the following number of credit points and the subject requirements of that degree.

<b>Graduate certificate</b>	24 credit points
<b>Graduate diploma</b>	36 credit points
<b>Master's</b>	48 credit points
<b>Advanced master's</b>	60 credit points

# What you can study in 2018

Our portfolio of vocational degrees includes:

- Internal Medicine\*
- Clinical Neurophysiology
- Critical Care Medicine\*
- Sexual and Reproductive Health
- Metabolic Health
- Ophthalmology and Cataract and Refractive Surgery\*
- Paediatric Medicine\*
- Pain Management
- Pharmaceutical and Medical Device Development
- Psychiatry\*
- Sleep Medicine
- Surgery.\*

## What's new in 2018?

### Orofacial Pain

Drawing on the American Academy of Orofacial Pain Curriculum Guidelines, the Sydney Medical School and the Faculty of Dentistry have collaborated to develop a unique orofacial pain pathway within the Master of Medicine/Science in Medicine (Pain Management) program.

This is the first time that a study option devoted exclusively to orofacial pain has been offered by an Australian or New Zealand university.

### Sexual and Reproductive Health

This postgraduate program provides a diverse and interprofessional curriculum suitable for Australian and international students interested in the range of disciplines related to HIV, sexually transmitted infections (STIs), Sexual and Reproductive Health (SRH).

The program enables students to understand the global challenges of SRH, including HIV/STIs, infertility, and unintended pregnancy, through a range of units, with an option to choose one of four pathways: HIV and STIs, Reproductive Health and Fertility, Psychosexual Therapy, or Public Health.

## New units of study in 2018

- **Point of Care Ultrasound** will investigate the process now used routinely in the assessment and management of critically ill patients. Students will learn how to perform scans including e-FAST, AAA, vascular access, DVT studies, renal, hepatobiliary, basic echo and early pregnancy.
- **Essential Dermatology** will provide a comprehensive review of most of the common skin diseases. On completion, students will be able to diagnose the most common cutaneous presentations, recognise possible alternative diagnoses, and complete an appropriate management plan.
- **Essential Imaging** will cover the various modalities in current use and future directions of imaging, give a better understanding of the strengths and weaknesses of common imaging tests including the risks associated with different modalities, explain how to recognise the appearance of 'need to know' cases, and appropriately order and perform basic interpretation of commonly used tests.
- **Basic Infectious Diseases** will focus on the diagnosis and investigation of common haematological disorders and the essentials of managing these conditions. It will be available in the Internal Medicine and Critical Care Medicine courses.
- **Basic Oncology** will focus on the diagnosis, investigation and treatment of common solid malignancies. This unit will be available in the Internal Medicine courses.
- **Basic Haematology** will explore common haematological disorders and how to manage them. It will be available in the Internal Medicine courses.
- **Urological Oncology** will cover cancers of the prostate, bladder, kidney, testis, penis and other rarer cancers. On completion students will be able to diagnose, stage and manage localised and advanced cancers.

\* Only available to medical graduates

## Short courses

We offer a wide range of short courses for health professionals. Many of our units of study can be taken as stand-alone (non-award) courses, some of which are recognised by professional bodies and earn continuing medical education (CME) points.

Units of study include:

- Diabetes Management
- Diagnostic EEG
- Clinical Neurophysiology Techniques
- Intraoperative Neuromonitoring I and II
- Introduction to Pain Management
- Regional Dissection
- Drugs and Devices: R and D to Registration
- Counselling for Health Professionals
- Variations in Sexual Function
- Advanced Issues in Psychosexual Therapy.

Regular short courses on offer include:

- Laparoscopic Appendicectomy and Cholecystectomy (Surgical skills)
- Ultrasound in Trauma Surgery (Surgical skills)
- Situational Judgment Testing (General Practice)
- Multiple Mini Interviews (General Practice)
- United States Medical Licensing Examination (USMLE)
- Intraoperative Neuromonitoring

For more information on these courses, visit

- [sydney.edu.au/medicine/study/short-courses](https://sydney.edu.au/medicine/study/short-courses)

\* These are interdisciplinary courses offered in conjunction with other faculties

## Admission requirements

To enrol in our Master of Medicine programs, you need to hold a recognised medical degree.

The Master of Science in Medicine programs are available to science, nursing and allied health graduates.

Some courses have additional requirements, such as work experience.

You will find further information about each course on the following pages. Detailed information about admission requirements and units of study appears in the handbook:

- [sydney.edu.au/handbooks/medicine](https://sydney.edu.au/handbooks/medicine)

## Commonwealth supported places

For the 2018 intake we may be able to offer a limited number of Commonwealth supported places based on merit in Clinical Neurophysiology, Metabolic Health, Sleep Medicine, Pain Management and Psychotherapy. This means your tuition fees will be subsidised by the Australian Government. You will pay the remainder – called a ‘student contribution amount’.

For up-to-date CSP availability and application closing dates, visit the relevant course pages at:

- [sydney.edu.au/courses](https://sydney.edu.au/courses)



# Clinical Neurophysiology

This course will provide you with a sound understanding of the theoretical principles and practical application of all the commonly employed techniques in clinical neurophysiology. You will develop the knowledge and skills to work in diagnostic and perioperative settings.

Designed for practising and trainee anaesthetists, neurologists, neurophysiology scientists and technologists, this course offers a structured educational program to complement your workplace experience.

## Courses available in this area

- Graduate Certificate in Medicine (Clinical Neurophysiology)
- Graduate Certificate in Science in Medicine (Clinical Neurophysiology)
- Graduate Diploma in Medicine (Clinical Neurophysiology)
- Graduate Diploma in Science in Medicine (Clinical Neurophysiology)
- Master of Medicine (Clinical Neurophysiology)
- Master of Science in Medicine (Clinical Neurophysiology)
- Master of Medicine (Advanced) (Clinical Neurophysiology)
- Master of Science in Medicine (Advanced) (Clinical Neurophysiology)

## Admission requirements

For entry to the Master of Medicine, or the Graduate Certificate or Graduate Diploma in Medicine, you need a recognised medical degree.

The Master of Science in Medicine requires a bachelor's degree in a health or science-related discipline with honours; or a bachelor's degree plus a postgraduate degree in a health or science-related discipline. At least 12 months' relevant work experience is also required.

The Graduate Certificate or Graduate Diploma in Science in Medicine require a bachelor's degree in a health or science-related discipline.

An advanced option is available if you are enrolled in the master's degree with an average mark of at least 75 percent in 24 credit points of compulsory and/or stream-specific units of study.

## Course summary: Master of Medicine (Clinical Neurophysiology)

**Duration:** 1 year full time/2 years part time

**Total credit points required:** 48

**Commencing:** stream-specific units of study commence in Semester 1; compulsory and elective units can be started in Semester 1 or 2

**Mode:** online with face-to-face intensive workshops  
**Eligibility for international students:** This course is not available to student visa holders. It is available to international students offshore or on other visas with study rights. Intensive study components will require international students to be onshore.

**IELTS:** 7.0 overall (at least 6.5 in each band)

- [sydney.edu.au/courses/master-of-medicine-clinical-neurophysiology](https://sydney.edu.au/courses/master-of-medicine-clinical-neurophysiology)

## Clinical Neurophysiology units of study

Compulsory units of study	CP
Introduction to Clinical Epidemiology	6
Basic Sciences in Clinical Neurophysiology	6
<b>Stream-specific units</b>	
Diagnostic Electroencephalography	6
Clinical Neurophysiology Techniques	6
Advanced Electroencephalography	6
Neuromonitoring in Anaesthesia	6
Intraoperative Monitoring I	6
Intraoperative Monitoring II	6
Basic Neurology*	3
Advanced Neurology*	3
<b>General elective units</b>	
Clinical Reasoning and Communication*	6
Pain Mechanisms and Contributors	6
Pain Treatment and Management Principles	6
Acute Pain	6
Introductory Biostatistics	6
Clinical Research Development and Practice	6
Quality and Safety in Health Care	6
Teaching in the Clinical Environment	6
Writing and Reviewing Medical Papers	6
Introduction to Systematic Reviews	6
Research Grants: Theory and Practice	6

\* Suitable for medical graduates only



### Staff profile

#### Dr Adam Hastings

Course Coordinator, Clinical Neurophysiology

Consultant anaesthetist at Westmead Hospital and Head of the Department of Anaesthesia of Westmead Private Hospital

Dr Adam Hastings is board certified in intraoperative neuromonitoring by the American Board of Registration of Electroencephalographic and Evoked Potential Technologists. He has led the development of this course in collaboration with a group of neurophysiology scientists, neurologists and anaesthetists, having recognised the lack of postgraduate training available in this field.



# Critical Care Medicine

This degree has been designed by critical care clinicians for doctors interested in anaesthesia, emergency medicine and intensive care medicine.

The structure of this degree will allow you to tailor your study to your area of interest. For example, in emergency medicine, you can develop your knowledge and skills in retrieval medicine and clinical reasoning and communication. In anaesthetics and intensive care medicine, you can gain highly coveted expertise in neuromonitoring and pain management. Coursework is also provided in anatomy, pathology, physiology and pharmacology to help you prepare for college barrier examinations.

This degree may help you fulfil college training requirements, such as the research requirements for the Australasian College for Emergency Medicine (ACEM). You will have the opportunity to refine and enhance your non-technical skills in areas such as communication and decision making and clinical teaching, simulation and research.

The degree is designed for busy clinicians and can be taken wholly online. Some units include intensive face-to-face teaching.

## Admission requirements

Admission requires a recognised medical degree. The advanced option is available to students who are enrolled in the master's degree and have completed at least 24 credit points of compulsory or stream-specific units of study with an average mark of at least 75 percent. If you are considering undertaking the advanced option, it is recommended that you complete Introductory Biostatistics as an elective unit of study.

## Course summary: Master of Medicine (Critical Care Medicine)

**Duration:** 1 year full time/2 years part time

**Credit points required for award:** 48

**Commencing:** March/July

**Mode:** online, intensive

### Eligibility for international students:

This course is not available to student visa holders or to international students to study offshore. International students in Australia on other visas with study rights may apply.

**IELTS:** 7.0 overall (at least 6.5 in each band)

– [sydney.edu.au/courses/master-of-medicine-critical-care-medicine](https://sydney.edu.au/courses/master-of-medicine-critical-care-medicine)



## Staff profile

**Dr Khanh Nguyen**  
Course Coordinator,  
Critical Care Medicine

Staff Specialist in Emergency Medicine  
at Canterbury Hospital, Sydney

“Designed to complement everyday clinical practice, this degree enables students to develop technical and non-technical

critical care skills relevant to their specialty area to become well-rounded clinicians. The degree is practical and offers not only the basic sciences but key sub-specialty areas including simulation, retrieval medicine, pain management, intra-operative monitoring and the new unit on point-of-care-ultrasound.”



### Inside view

“The knowledge I gained from the Master of Medicine (Critical Care Medicine) has been relevant to my everyday practice as an intensive care registrar. It has equipped me with skills to approach challenges with confidence and structure, and a solid foundation in preparation for my primary examinations.”

#### Dr Holly Martin

Intensive Care Registrar, Royal North Shore Hospital, Sydney  
 Master of Medicine (Critical Care Medicine) graduate, 2015

### Critical Care Medicine units of study

Compulsory units of study	CP	General elective units	
Introduction to Clinical Epidemiology	6	Advanced STIs	6
Evidence and Ethics in Critical Care	6	Bioethics, Law and Society	6
<b>Stream-specific units</b>		Quality and Safety in Health Care	6
Introduction to Clinical Epidemiology	6	Research Grants: Theory and Practice	6
Anatomy for Critical Care	6	Diagnostic Electroencephalography	6
Pathology for Critical Care	6	Intraoperative Monitoring I	6
Pharmacology for Critical Care	6	Diabetes Management	6
Physiology for Critical Care	6	Advanced Diabetes Management	6
Clinical Reasoning and Communication	6	Teaching in the Clinical Environment	6
Retrieval Med – Operational Environment	6	Pain in Children	6
Clinical Retrieval Medicine	6	Introductory Biostatistics	6
Teaching With Simulation	6	Medical Management of Interpersonal Violence	6
Basic Sciences in Clinical Neurophysiology	6	Imaging in Surgical Patients	6
Neuromonitoring in Anaesthesia	6	Essential Dermatology	6
Pain Mechanisms and Contributors	6	Basic Respiratory Medicine	3
Pain Treatment and Management Principles	6	Basic Infectious Diseases	3
Cardiology	6	Essential Imaging for Clinicians	6
Acute Pain	6	Writing and Reviewing Medical Papers	6
Point of Care Ultrasound	6	Introduction to Systematic Reviews	6

# Infection and Immunity

Our program in infection and immunity has been designed for health science and medical professionals who wish to increase their knowledge of infectious diseases, infection control and the immune system.

This program focuses on improving understanding of the functions of bacterial, viral and fungal genes in infection, the mechanisms of viral and bacterial infections, and the generation and regulation of immune responses. You will study the principles and practices of prevention and minimisation of infectious diseases in hospitals and laboratories, among the general community and during disease outbreaks, while receiving training in the latest laboratory techniques.

As a graduate, you will be ready to participate effectively in healthcare and research programs in infectious disease or immunology of infection throughout the world. You will also be better placed to undertake a higher degree by research.

## Course options

- Graduate Certificate in Infection and Immunity
- Graduate Diploma in Infection and Immunity
- Master of Medicine (Infection and Immunity)
- Master of Science in Medicine (Infection and Immunity)

## Admission requirements

Admission requires a recognised medical degree or a medical science or science degree with passes in immunology and microbiology or infectious diseases units of study. Science graduates without relevant work experience or an Australian-equivalent honours degree will be admitted initially at the level.

## Course summary: Master of Medicine (Infection and Immunity)

**Duration:** 1 year full time/2 years part time

**Total credit points required:** 48

**Commencing:** March/July

**Mode:** on-campus (Camperdown and Westmead) day

**Eligibility for international students** This course is available to international students (student visa holders and other eligible visa holders).

**IELTS:** 6.5 overall (at least 6.0 in each band)

- [sydney.edu.au/courses/master-of-medicine-infection-and-immunity](https://sydney.edu.au/courses/master-of-medicine-infection-and-immunity)



## Infection and Immunity units of study

Compulsory units of study	CP
Fundamental Immunology	6
Virology and Cell Technology	6
Advanced Medical Bacteriology	6
Infection Control and Epidemiology	6
General elective units	
Clinical Mycology and Parasitology	6
Applied Clinical Immunology	6
Global Control of Infectious Disease	6
Advanced STIs	6

# Internal Medicine

Improve your ability to diagnose, investigate and manage common and important medical conditions in adult patients.



This program is designed to integrate with your clinical work, and is delivered jointly by the University of Sydney and the University of Melbourne, a collaboration that brings a unique breadth of teaching and clinical experience to the course.

The basic units of study in the medical disciplines provide a framework to acquire the knowledge and skills required for the Royal Australasian College of Physicians Adult Medicine Basic Training examinations or for extension of your skills in internal medicine if you are training in emergency medicine, intensive care or general practice.

The degree is suitable for established practitioners who wish to improve or refresh their skills in internal medicine. You will have the opportunity to take units at a basic or advanced level in most of the medical specialties, and you can tailor your degree to your needs and interests. The advanced units provide an introduction to subspecialty practice.

There is a broad range of elective units, including units in clinical teaching, statistical analysis, grant writing and other research skills. The degree structure is flexible so that you can use it as the academic foundation for your career as it evolves.

Coursework is delivered online except for the capstone unit, which will provide an intensive face-to-face learning opportunity to consolidate and reinforce your knowledge, as well as an opportunity to interact with senior clinicians and fellow trainees.

## Admission requirements

Only medical graduates with registration (full, conditional or limited) in Australia or New Zealand may be admitted to the Internal Medicine degrees. Candidates need to be working in clinical practice, or have had substantial prior clinical experience, in Australia or New Zealand. The program may only be undertaken part time, with a minimum completion time of two years.

Entry to the advanced option is available only to students who have maintained an average mark of at least 75 percent in 24 credit points of compulsory and/or stream-specific units of study. If you are considering undertaking the advanced option, it is recommended that you complete Introductory Biostatistics as an elective unit of study.

## Course options

- Graduate Certificate in Medicine (Internal Medicine)
- Graduate Diploma in Medicine (Internal Medicine)
- Master of Medicine (Internal Medicine)
- Master of Medicine (Advanced) (Internal Medicine)

## Internal Medicine units of study

Compulsory units of study	CP	General elective units	
Introduction to Clinical Epidemiology	6	Clinical Reasoning and Communication	6
Internal Medicine Advanced Management	6	Bioethics, Law and Society	6
<b>Stream-specific units</b>		Acute Pain	6
Basic Neurology	3	Pain Mechanisms and Contributors	6
Basic Rheumatology	3	Pain Treatment and Management Principles	6
Basic Respiratory Medicine	3	Quality and Safety in Health Care	6
Basic Gastroenterology	3	Research Grants Theory and Practice	6
Basic Endocrinology	3	Diagnostic and Screening Tests	6
Basic Renal Medicine	3	Introduction to Systematic Reviews	6
Cardiology	6	Writing and Reviewing Medical Papers	6
Basic Infectious Diseases	3	Introduction to Health Policy	6
Basic Oncology	3	Introductory Biostatistics	6
Basic Haematology	3	Advanced Epidemiology	6
Advanced Neurology	3	Teaching in the Clinical Environment	6
Advanced Rheumatology	3	Essential Dermatology	6
Advanced Respiratory Medicine	3	Reproductive Endocrinology and Infertility	6
Advanced Gastroenterology	3	Advanced STIs	6
Advanced Endocrinology	3	Advanced HIV Infection	6
Diagnostic Electroencephalography	6		
Advanced Electroencephalography	6		
Diabetes Management	6		
Advanced Diabetes Management	6		
Cardiovascular Metabolic Management	6		
Essential Imaging for Clinicians	6		
Adolescent Medicine	6		
Paediatric Infectious Diseases	6		

### Course summary: Master of Medicine (Internal Medicine)

**Duration:** minimum 2 years part time

**Credit points required for award:** 48

**Commencing:** March/July

**Mode:** online; intensive for capstone unit only

**Eligibility for international students:** This course

is only available to medical graduates who are residents in Australia or New Zealand, who hold Australian or New Zealand medical registration and are working in a clinical environment. The capstone includes a one-week residential component.

**IELTS:** 7.0 overall (at least 6.5 in each band)

– [sydney.edu.au/courses/master-of-medicine-internal-medicine](https://sydney.edu.au/courses/master-of-medicine-internal-medicine)



### Staff profile

**Associate Professor Leo Davies**  
Course Coordinator, Internal Medicine

Conjoint Associate Professor, Sydney Medical School; Associate Dean (Evaluation and Assessment), Sydney Medical Program; and Senior Staff Specialist in Neurology and Head of the Department of Neurophysiology, Royal Prince Alfred Hospital

Associate Professor Leo Davies is a neurologist with clinical and research interests in movement disorders and stroke, and a strong interest in medical education and assessment. He previously worked as a Clinical and Research Fellow at Harvard University, studying the physiology of human movement.

# Metabolic Health

The Metabolic Health degree has been developed to help health professionals acquire a comprehensive practical understanding of the aetiology, diagnosis and treatment of metabolic diseases.

Students will learn how to manage diabetes, obesity and associated cardiovascular complications in the general population, and in high-risk groups, such as pregnant women, the elderly, those with mental illness and in Aboriginal or Torres Strait Islander people.

This course has been developed and is delivered by international leaders in diabetes and metabolic health. It is ideal for medical practitioners working in primary care, emergency medicine or paediatrics, and those planning to train in endocrinology. It is also suited to nurses, diabetes educators, dietitians and pharmacists with clinical experience and an interest in the field.

The degree is delivered online with short, on-campus intensive workshops held in the University's new Charles Perkins Centre research and education hub.

## Course options

- Graduate Certificate in Medicine (Metabolic Health)
- Graduate Certificate in Science in Medicine (Metabolic Health)
- Graduate Diploma in Medicine (Metabolic Health)
- Graduate Diploma in Science in Medicine (Metabolic Health)
- Master of Medicine (Metabolic Health)
- Master of Science in Medicine (Metabolic Health)
- Master of Medicine (Advanced) (Metabolic Health)
- Master of Science in Medicine (Advanced) (Metabolic Health)

## Admission requirements

For entry into the Graduate Certificate in Medicine, Graduate Diploma in Medicine or Master of Medicine, a recognised medical degree is required.

The Master of Science in Medicine requires a recognised bachelor's degree in a health or science-related discipline, with honours or 12 months work experience or an postgraduate degree.

The Graduate Certificate or Graduate Diploma in Science in Medicine requires a bachelor's degree in a health or science-related discipline.

An advanced option is available if you are enrolled in the master's degree with an average mark of at least 75 percent in 24 credit points of compulsory and/or stream-specific units of study.

Below: Dr Kath Williams (second from right) with Metabolic Health students.





## Staff profile

### Professor Stephen Twigg Course Coordinator, Metabolic Health

Stan Clark Chair in Diabetes, Kellion Professor of Endocrinology, and Head of the Department of Endocrinology, Royal Prince Alfred Hospital, Sydney

Professor Twigg's research focuses on translational studies in blood glucose management, and the prevention, timely detection, stabilisation and reversal of diabetes and its complications. Research interests include exercise in diabetes and prediabetes, and organ complications of diabetes.

Professor Twigg, with unit of study coordinators, Dr Albert Hsieh, Professor Tim Gill, and Dr Kelly Stanton have developed an evidence-based, practical series of units targeting management of common metabolic health problems in an interactive format.

### Course summary: Master of Medicine (Metabolic Health)

**Duration:** 1 year full time/2-4 years part time

**Credit points required for award:** 48

**Commencing:** stream-specific units of study commence in Semester 1; core and elective units can be commenced in Semester 1 or 2.

**Mode:** intensive; face-to-face

**Eligibility for international students:** This course is not available to student visa holders. It is available to international students offshore or on other visas with study rights.

**IELTS:** 7.0 overall (at least 6.5 in each band)

– [sydney.edu.au/courses/master-of-medicine-metabolic-health](https://sydney.edu.au/courses/master-of-medicine-metabolic-health)

### Metabolic Health units of study

Compulsory units of study	CP
Introduction to Clinical Epidemiology	6
Evidence and Ethics in Metabolic Health	6
Stream-specific units	
Diabetes Management	6
Advanced Diabetes Management	6
Obesity and Pre-Diabetes: Prevention and Care	6
Cardiovascular Metabolic Disease Management	6
Assessment and Clinical Judgement*	6
Paediatric Nutrition and Obesity	6
General elective units	
Bioethics, Law and Society	6
Clinical Ethics	6
Quality and Safety in Health Care	6
Research Grants: Theory and Practice	6
Teaching in the Clinical Environment	6
Community and Public Health Nutrition	6
Pain Mechanisms and Contributors	6
Pain Treatment and Management Principles	6
Disease Prevention and Health Promotion	6
Health and Risk Communication	6
Writing and Reviewing Medical Papers	6
Medicines Policy, Economics and Ethics	6
Introduction to Systematic Reviews	6
Lifestyle and Chronic Disease Prevention	6

\* This unit is available to nursing graduates only

# Ophthalmology

Our clinicians and researchers from the Save Sight Institute and the Sydney Eye Hospital have extensive experience in ophthalmic education and training in both developed and developing countries. We offer degrees in Ophthalmic Science, International Ophthalmology, and Cataract and Refractive Surgery.

## Ophthalmic Science

This course covers the basic ophthalmic sciences in a flexible format that you can tailor to your needs. It is delivered online with an intensive face-to-face practical course.

You will acquire a detailed theoretical understanding of ophthalmic anatomy, physiology and optics, skills in the practical applications of ophthalmic equipment, and familiarity with anatomical specimens, prosections, radiographs and electron micrographs. The course is designed for medical graduates interested in ophthalmology training and those pursuing a career in vision science.

### Admission requirements

For entry to the Graduate Diploma in Ophthalmic Science or the Master of Science in Medicine, you will need an undergraduate degree in a relevant area. The Master of Medicine requires a recognised medical degree. The Oculoplastic Surgery stream is only available to accredited ophthalmologists. This course is available to domestic and international applicants by distance education only.

### Course summary: Master of Medicine (Ophthalmic Science)

**Duration:** 1 year full time/2 years part time

**Credit points required for award:** 48

**Commencing:** March/July

**Mode:** online; intensive

#### Eligibility for international students:

This course is not available to student visa holders. It is available to international students offshore or on other visas with study rights. Intensive study components will require international students to be onshore.

**IELTS:** 6.5 overall (at least 6.0 in each band)

– [sydney.edu.au/courses/master-of-medicine-ophthalmic-science](https://sydney.edu.au/courses/master-of-medicine-ophthalmic-science)

### Ophthalmic Science units of study

Compulsory units of study	CP
Ophthalmic Anatomy	9
Ophthalmic Physiology	9
Ophthalmic Optics	9
Practical Ophthalmic Science	9
Oculoplastic Surgery 1 (Oculoplastic stream only)	6
Oculoplastic Surgery 2 (Oculoplastic stream only)	6
Practical Oculoplastic Surgery (Oculoplastic stream only)	6
Treatise (master's degree students only)	12

## International Ophthalmology

This course focuses on the specific training needs of clinicians in developing countries, particularly those from the Asia-Pacific region. Medical graduates from developing countries will benefit from this comprehensive course, which can lead to qualifications endorsed by your local health ministry. It will provide you with the skills to practise ophthalmology at the highest possible standard, with an emphasis on the specific diseases and pathologies within developing countries.

Clinical and basic sciences are taught online, while local and visiting mentors provide clinical teaching and supervision in your working environment. You will gain practical skills that include knowledge of the prognosis and management of common eye conditions, diseases and injuries.

Two streams are available:

- **Community Ophthalmology**, for medical graduates with little or no ophthalmology specialist training from countries without specialised ophthalmological services
- **Post Vocational Ophthalmology**, for students who have completed a specialisation training program in their home country.

### Admission requirements

You need a recognised medical degree. If you are a qualified ophthalmologist in your home country, you can enter the vocational stream. If you are from a country without an established ophthalmology specialist program, you are eligible for admission to the community stream. This course is specifically for students from developing countries and is not open to students from Australia or New Zealand.

## International Ophthalmology – Community Ophthalmology units of study

Core units of study	CP
Ophthalmic Anatomy	9
Ophthalmic Optics	9
Ophthalmology in Developing Countries 1	6
Ophthalmology in Developing Countries 2	6
Clinical Ophthalmology 1	6
Clinical Ophthalmology 2	6
Surgical Ophthalmology	6
Acute and Emergency Eye Presentations	6

## International Ophthalmology – Post Vocational Ophthalmology units of study

Core units of study	CP
Ophthalmic Anatomy	9
Ophthalmic Optics	9
Cornea and Anterior Segment Surgery	6
Glaucoma	6
Practical International Ophthalmology 1	6
Practical International Ophthalmology 2	6
Medical Retina	6
Paediatric Ophthalmology	6
Treatise (master only)	12

### Course summary: Master of International Ophthalmology

**Duration:** 1 year full time/2 years part time

**Credit points required for award:** 48

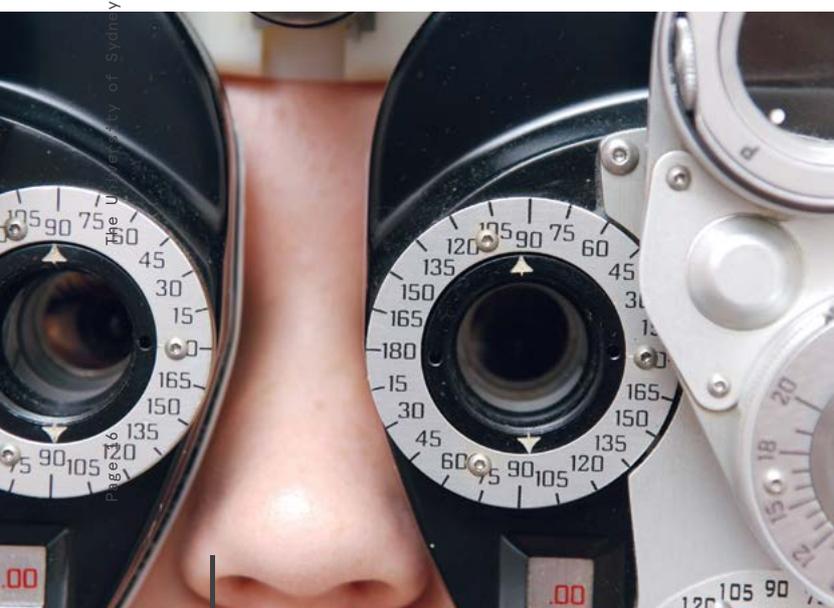
**Commencing:** March/July

**Mode:** on-campus day; online; intensive

**Eligibility for international students:** This course is not available to student visa holders. It is available to international students offshore or on other visas with study rights. Intensive study components will require international students to be onshore.

**IELTS:** 6.5 overall (at least 6.0 in each band)

- [sydney.edu.au/courses/master-of-international-ophthalmology](http://sydney.edu.au/courses/master-of-international-ophthalmology)



## Cataract and Refractive Surgery

This course will equip you with detailed knowledge of the theory and practice of cataract and refractive surgery. It will provide you with an understanding of the appropriate selection of candidates for surgery, the surgical techniques involved and how to deal with any complications that may arise.

The course is offered online, and includes a placement in an accredited refractive surgical centre as well as time in the surgical wet lab at Sydney Eye Hospital to develop your practical skills and experience.

### Admission requirements

You need to have a recognised medical degree and either be in your final year of accredited training with the Royal Australian and New Zealand College of Ophthalmologists (RANZCO) or an equivalent body, and be eligible for subspecialty fellowship, or be registered to practise ophthalmology in your state, territory or country of residence. You will also need to have medical indemnity insurance.

Overseas-trained specialists who wish to practise in Australia need to have documentation from RANZCO to show they have met its guidelines for specialist practice in Australia.

### Cataract and Refractive Surgery units of study

Core units of study	CP
Ophthalmic Anatomy	9
Ophthalmic Optics	9
Refractive Surgery 1	6
Refractive Surgery 2	6
Practical Refractive Surgery	6
<b>Dissertation units</b>	
Dissertation Refractive Surgery A	6
Dissertation Refractive Surgery B	6
Dissertation Refractive Surgery C	12



### Staff profile

#### Associate Professor John Grigg

Head of the Discipline of Ophthalmology at the University of Sydney's Save Sight Institute; and consultant ophthalmologist at Sydney Eye Hospital and the Children's Hospital Westmead

Since joining the Save Sight Institute in 2003, Professor Grigg has overseen the University's expansion of postgraduate programs in ophthalmic science. After co-chairing a comprehensive review of the ophthalmic curriculum for medical students, he went on to manage its implementation, including the introduction of a virtual ophthalmology clinic.

#### Course summary: Master of Medicine (Cataract and Refractive Surgery)

**Course code:** MAMECARS1000

**Duration:** 1 year full time/2 years part time

**Total credit points required:** 48

**Commencing:** March

**Mode:** online, intensive

#### Eligibility for international students:

This course is not available to student visa holders. It is available to international students offshore or on other visas with study rights. Intensive study components will require international students to be onshore.

**IELTS:** 6.5 overall (at least 6.0 in each band)

– [sydney.edu.au/courses/master-of-medicine-cataract-and-refractive-surgery](https://sydney.edu.au/courses/master-of-medicine-cataract-and-refractive-surgery)

# Paediatric Medicine

This degree provides the core knowledge and clinical decision making skills required for day-to-day paediatric practice.

The Master of Medicine (Paediatric Medicine) is delivered by paediatric practitioners and researchers from Sydney Medical School and the Children's Hospital at Westmead.

The coursework is case based and you can study at a basic or advanced level. It is facilitated by subspecialty experts who will guide your learning and facilitate valuable interactions within your student groups. It aims to provide you with a practical and theoretical foundation in paediatrics, from newborns to adolescence.

This degree is suitable for all doctors interested in paediatrics, regardless of seniority or experience. We welcome doctors who are working in general practice or specialty paediatrics, in the community or in a hospital.

The compulsory unit, Evidence and Ethics, offers an opportunity to convert your assignment into a publication for the *Journal of Paediatric and Child Health*.

## Course options

- Graduate Certificate in Medicine (Paediatric Medicine)
- Graduate Diploma in Medicine (Paediatric Medicine)
- Master of Medicine (Paediatric Medicine)
- Master of Medicine (Advanced) (Paediatric Medicine)

## Admission requirements

Entry requires a recognised medical degree. Entry to the Master of Medicine (Advanced) is available only to master's students who have maintained an average mark of at least 75 percent in 24 credit points of compulsory and/or stream-specific units of study.

## Course summary: Master of Medicine (Paediatric Medicine)

**Duration:** 1 year full time/2 years part time

**Credit points required for award:** 48

**Commencing:** March/July

**Mode:** online, intensive

**Eligibility for international students:** This course is not available to student visa holders. It is available to international students offshore or on other visas with study rights. Intensive study components will require international students to be onshore.

**IELTS:** 7.0 overall (at least 6.5 in each band)

- [sydney.edu.au/courses/master-of-medicine-paediatric-medicine](https://sydney.edu.au/courses/master-of-medicine-paediatric-medicine)

## Paediatric Medicine units of study

Compulsory units of study	CP
Introduction to Clinical Epidemiology	6
Evidence and Ethics in Paediatric Medicine	6
<b>Stream-specific units*</b>	
Independent Studies	6
Paediatric Infectious Diseases	6
Paediatric Nutrition and Obesity	6
Paediatric Gastroenterology	6
Paediatric Immunisation	6
<b>Stream-specific units**</b>	
Neonatal Medicine	6
Adolescent Medicine	6
General and Developmental Paediatrics	6
Paediatric Asthma and Allergy	6
Independent Studies	6
<b>General elective units</b>	
Essential Dermatology	6

\* Offered in odd numbered years

\*\* Offered in even numbered years

# Pain Management

This evidence-based and clinically-focused program explores the problem of pain in multiple settings, from acute, post-surgical pain to chronic intractable pain.



Pain Management

The program content is based on the core curriculum for interdisciplinary pain management established by the International Association for the Study of Pain (IASP) – the leading international scientific body representing and supporting about 8000 pain scientists and clinicians around the world.

In 2014 the program itself was formally endorsed by the IASP. The program provides you with up-to-date knowledge and treatment and management approaches to not only limit the severity of pain but also its impact on people. Critically, it will refine your ability to work in a multidisciplinary team to help patients achieve their goals.

Developed and taught by Sydney Medical School's Pain Management Research Institute based at Royal North Shore Hospital and the Kolling Institute of Medical Research, this is one of the premier international programs in pain management. The content was developed in collaboration with many of the leading experts in this field nationally and internationally.

In 2018, a new pathway in Orofacial Pain will be incorporated into the degree program. This is the only pathway available in an Australian and New Zealand university for students interested in learning about managing and treating orofacial pain problems in depth.

Drawing on the American Academy of Orofacial Pain Curriculum Guidelines, the Sydney Medical School and Faculty of Dentistry have collaborated to develop this unique pathway within the program. It is offered at the master's level only and requires the completion of specified units of study (see the Orofacial Pain pathway table on the next page).

The program is offered online and may be completed full time or part time. It is recognised for continuing medical education/maintenance of professional standards points by the Royal Australian College of General Practitioners, the Royal Australasian College of Physicians and the Australian and New Zealand College of Anaesthetists.

## Course options

- Graduate Certificate in Pain Management
- Graduate Diploma in Pain Management
- Master of Medicine (Pain Management)
- Master of Science in Medicine (Pain Management)

## Pain Management units of study

Compulsory units of study	CP
Introduction to Pain Management	6
Pain Mechanisms and Contributors	6
Pain Treatment and Management Principles	6
Pain Conditions	6
Issues, Controversies in Pain Management (master's level only)	6
General elective units	
Orofacial Pain	6
Independent Studies in Pain	6
Advanced Studies in Orofacial Pain	6
Clinical Aspects in Neurobiology	6
Psychology of Pain	6
Acute Pain	6
Musculoskeletal Pain	6
Cancer Pain	6
Pharmacology of Pain Medicine	6
Psychological Approaches in Pain Management	6
Disability and Pain Rehabilitation	6
Pain in Children	6
Pain in Older People	6
Complementary Therapies: Pain Management	6
Headache	6
Orofacial Pain pathway (master's level only)	
Year 1	
Introduction to Pain Management	6
Pain Mechanisms and Contributors	6
Pain Treatment and Management Principles	6
Orofacial Pain	6
Year 2	
Advanced Studies in Orofacial Pain	6
Introduction to Sleep Medicine	6
Headache	6
Orofacial Pain in Practice (master's level only)	6



## Staff profile

**Professor Michael Nicholas**  
 Director of Pain Education and Pain Management Programs at the Pain Management Research Institute, University of Sydney and Royal North Shore Hospital; Executive Officer of the Council of the International Association for the Study of Pain, and Co-Chair of the NSW Agency for Clinical Innovation's Pain Network.

Professor Nicholas has an international reputation in the field of pain as a clinician, researcher and educator, with more than 170 publications and a long history of training all health disciplines on multidisciplinary pain management.

## Admission requirements

For entry to the Master of Medicine, you need a recognised medical degree.

The Master of Science in Medicine requires a recognised bachelor's degree in a health or science-related discipline with either the equivalent of first or second class honours or equivalent work experience.

The graduate certificate and diploma require either a recognised medical degree or a bachelor's degree in a health or science-related discipline. A minimum five years of relevant professional work experience will be considered for entry to the graduate certificate.

## Course summary: Master of Medicine (Pain Management)

**Duration:** 1 year full time/2 years part time

**Total credit points required:** 48

**Commencing:** March/July

**Mode:** online, intensive

### Eligibility for international students:

This course is not available to student visa holders. It is available to international students offshore or on other visas with study rights. Intensive study components will require international students to be onshore.

**IELTS:** 6.5 overall (at least 6.0 in each band)

– [sydney.edu.au/courses/master-of-medicine-pain-management](https://sydney.edu.au/courses/master-of-medicine-pain-management)

# Pharmaceutical and Medical Device Development

This new program will teach you how to shepherd pharmaceutical and medical devices through crucial regulatory processes.

Tailored to professionals working in the pharmaceutical, biopharmaceutical, regulatory, evaluation, registration and therapeutic market sectors, this course teaches the latest approaches and requirements for the registration of medical products.

You will develop expertise in modern drug development practices, from concept to registration and beyond, relevant to healthcare, pharmaceutical and regulatory industries worldwide.

## Course options

- Graduate Certificate in Medicine (Pharmaceutical and Medical Device Development)
- Graduate Certificate in Science in Medicine (Pharmaceutical and Medical Device Development)
- Graduate Diploma in Medicine (Pharmaceutical and Medical Device Development)
- Graduate Diploma in Science in Medicine (Pharmaceutical and Medical Device Development)
- Master of Medicine (Pharmaceutical and Medical Device Development)
- Master of Science in Medicine (Pharmaceutical and Medical Device Development)
- Master of Medicine (Advanced) (Pharmaceutical and Medical Device Development)
- Master of Science in Medicine (Advanced) (Pharmaceutical and Medical Device Development)



Pharmaceutical and Medical Device Development

## Admission requirements

For entry to the Master of Medicine or the Graduate Certificate or Graduate Diploma in Medicine, you need a recognised medical degree.

The Master of Science in Medicine requires you to have a bachelor's degree with honours or 12 months' relevant work experience; or a bachelor's degree plus a postgraduate degree in a health or science-related discipline.

The Graduate Certificate or Graduate Diploma in Science in Medicine require a bachelor's or postgraduate degree in a health or science-related discipline.

An advanced option is available if you are enrolled in the master's degree with an average mark of at least 75 percent in 24 credit points of compulsory and/or stream-specific units of study. If you are considering undertaking the advanced option, it is recommended that you complete Introductory Biostatistics as an elective unit of study.

### Course summary: Master of Medicine (Pharmaceutical and Medical Device Development)

**Duration:** 2 years part time or 1 year full time

**Total credit points required:** 48

**Commencing:** March/July

**Mode:** online, intensive

**Eligibility for international students:** This course is not available to student visa holders. It is available to international students on other visas with study rights. Intensive study components will require international students to be onshore.

**IELTS:** 7.0 overall (at least 6.5 in each band)

- [sydney.edu.au/courses/master-of-medicine-pharmaceutical-and-medical-device-development](https://sydney.edu.au/courses/master-of-medicine-pharmaceutical-and-medical-device-development)

### Pharmaceutical and Medical Device Development units of study

Compulsory units of study	CP
Introduction to Clinical Epidemiology	6
Pharmaceutical and Medical Device Development	6
Stream-specific units	
Industrial Therapeutics (Project)	6
Drugs and Devices: R&D to Registration	6
Modern Therapeutics and Medical Devices	6
Medicines Policy, Economics and Ethics	6
Trial Design and Methods	6
General elective units	
Bioethics, Law and Society	6
Health Indicators and Health Surveys	6
Quality and Safety in Health Care	6
Diagnostic and Screening Tests	6
Advanced Trial Design	6
Economics and Finance for Health Policy	6
Introductory Biostatistics	6
Health and Risk Communication	6
Writing and Reviewing Medical Papers	6
Introduction to Systematic Reviews	6

## Staff profile

**Professor Paul Young**  
Course Coordinator,  
Pharmaceutical and Medical  
Device Development

Professor of Respiratory  
Technology, Discipline  
of Pharmacology, Sydney  
Medical School, and Deputy  
Director and Head of Respiratory  
Technology, Woolcock Institute  
of Medical Research

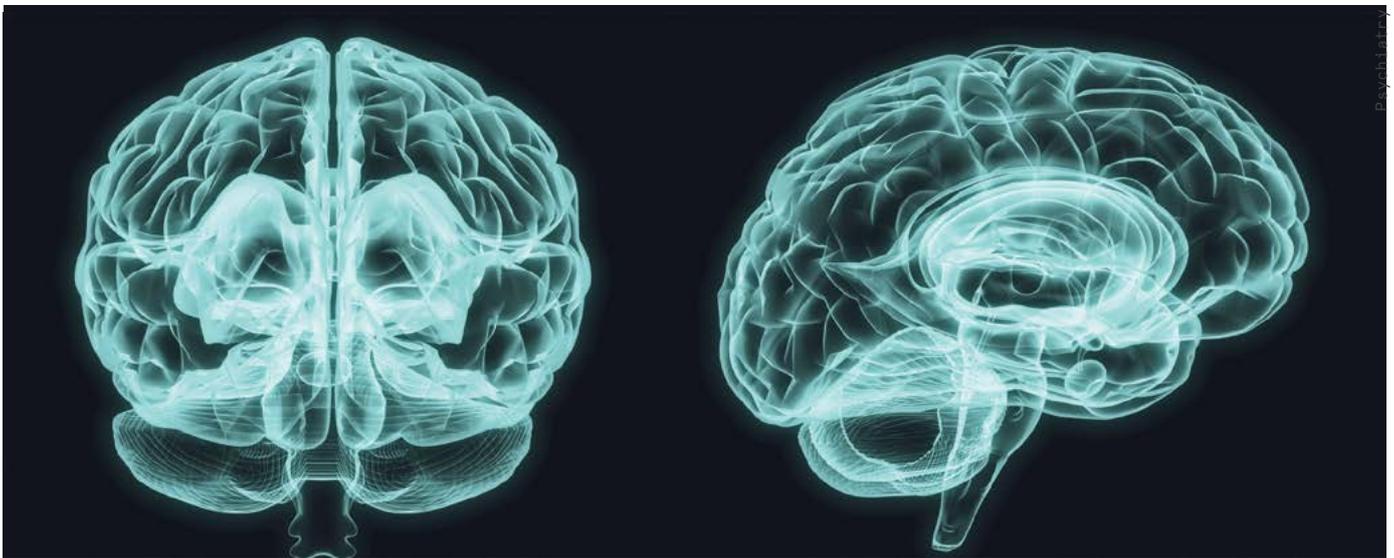
Professor Young has 20 years experience in the pharmaceutical industry, and holds an honours degree in chemistry and

a PhD in pharmaceutical sciences. He and his team develop advanced drug delivery systems for treating a wide range of respiratory disorders ranging from asthma to tuberculosis. He has an interest in all areas of the pharmaceutical sector, especially in dosage form design, scalability and manufacturing logistics, clinical trials and end-product batch-to-batch, and processing problem solving.



# Psychiatry

In the Master of Medicine (Psychiatry), you will develop a sophisticated understanding of the neuroscientific basis of psychiatry, gain expertise in critical appraisal and research design, strengthen your clinical capability, develop interdisciplinary clinical and research networks and pursue research.



The coursework is delivered by the Brain and Mind Centre, one of Australia's leading neuropsychiatric institutes, and has been designed specifically for trainee psychiatrists.

The master's degree is accredited by the Royal Australian and New Zealand College of Psychiatrists (RANZCP) as a Formal Education Course mandated for the first three years of the five-year RANZCP training program.

The course is delivered part time over three years. Teaching is facilitated by experienced clinicians and academics and classes are presented weekly, with face-to-face teaching supported by online learning. If you are not based in Sydney or if you are working evening or night shifts, you can join the class online or view class recordings later.

The course includes a capstone experience in an area of advanced study, with an optional research project that may be approved by the RANZCP for the scholarly project (students need to apply to the RANZCP NSW Branch Training Committee).

Alternatively, students may prefer the Continuing Medical Education (CME) program, which meets the requirements of a RANZCP Formal Education Course.

As a CME student, you will be expected to attend and take part in classroom and online discussions and class presentations, but will not have to hand in written assessments. The course fee is reduced for CME students.

### Course options

- Graduate Certificate in Medicine (Psychiatry)
- Graduate Diploma in Medicine (Psychiatry)
- Master of Medicine (Psychiatry)
- Master of Medicine (Advanced) (Psychiatry)

### Admission requirements

You need to have a recognised medical degree and employment in an accredited psychiatry training position, or equivalent experience.

### Course summary: Master of Medicine (Psychiatry)

**Duration:** 3–6 years part time

**Commencing semesters:** March/July

**Credit points required:** 48

**Study mode:** on-campus (Camperdown)

**Eligibility for international students:**

This course is not available to student visa holders. It is available to international students on other visas with study rights.

**IELTS:** 7.0 overall (at least 6.5 in each band)

- [sydney.edu.au/courses/master-of-medicine-psychiatry](https://sydney.edu.au/courses/master-of-medicine-psychiatry)

### Psychiatry units of study

Compulsory units of study	CP
Research Inquiry or Introduction to Clinical Epidemiology	6
Capstone units (choose from four)	
History, Philosophy and Ethics in Brain and Mind Science	6
Genetics of Brain and Mind Disorders	6
Leadership and Policy in Mental Health	6
Research Project in Psychiatry	6
Stream-specific units	
Clinical Psychiatry I	6
Clinical Psychiatry II	6
Fundamental Neuroscience	6
Child and Youth Mental Health	6
Bodies, Brains and Minds in Connection	6
Brain Ageing	6
Substance Use and Addiction	6
Psychotherapy and Psychosocial Care	6



### Staff profile

#### Associate Professor Louise Nash

Associate Director Teaching and Learning, Brain and Mind Centre, Clinical Chair for Psychiatry and Co-Medical Director of the Health Education and Training Institute of NSW Health

Associate Professor Nash is a psychiatrist with clinical expertise in early psychosis and community psychiatry in Sydney, rural and remote Australia, and research expertise in medical education, doctors' health and workforce development.

# Psychotherapy

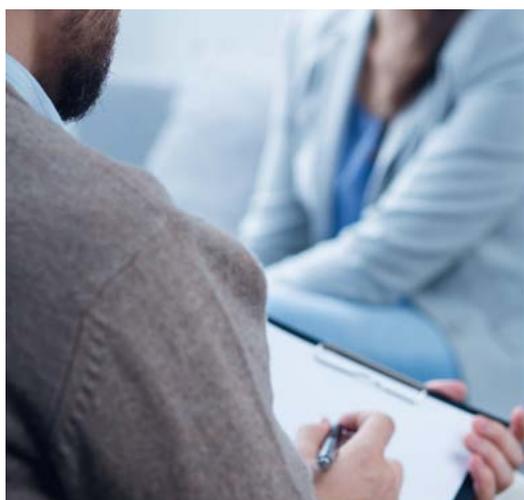
Contemporary psychotherapy teaches techniques that improve the mental health of those with personality disorders, anxiety disorders, dysthymia, chronic depression, somatisation and conditions in which chronic, complex trauma is a contributing factor.

The aim of this program is to train clinicians to treat people with psychological disorders who have not benefited from conventional psychotherapies and for whom chronic, complex trauma plays a contributing role.

The therapeutic approach is based on the Conversational Model but also incorporates concepts from other schools, including self psychology, intersubjectivity theory, development, attachment, trauma theory and memory systems theory and neuroscience.

These ideas are centred on concepts of the self, notions of boundary formation, the empathic mode of listening, a focus on subjective experience, and unconscious traumatic memory systems. All are informed by practice and emerging neuroscience.

Our program has a long history of research and training in this field, and contributes to research and scholarship in the field of personality disorder and chronic complex trauma. It is delivered in close liaison with the Western Sydney Local Health District and local clinicians to ensure the skills taught are practical and relevant to real-world psychotherapy practice settings.



## Course options

- Master of Medicine (Psychotherapy)
- Master of Science in Medicine (Psychotherapy)

## Admission requirements

The Master of Medicine (Psychotherapy) is only available to medical graduates. The Master of Science in Medicine (Psychotherapy) is available to applicants who hold a bachelor's degree or master's degree with honours in a related discipline or equivalent work experience.

## Course summary: Master of Medicine (Psychotherapy)

**Duration:** 3 years part time

**Credit points required for award:** 72

**Commencing:** March

**Mode:** on-campus day

### Eligibility for international students:

This course is not available to student visa holders. It is available to international students on other visas with study rights.

**IELTS:** 6.5 overall (at least 6.0 in each band)

- [sydney.edu.au/courses/master-of-medicine-psychotherapy](https://sydney.edu.au/courses/master-of-medicine-psychotherapy)

## Psychotherapy units of study

Core units of study	CP
Psychotherapy 1A	12
Psychotherapy 1B	12
Psychotherapy 2A	12
Psychotherapy 2B	12
Psychotherapy 3A	12
Psychotherapy Coursework	6
Psychotherapy Treatise	6

# Sexual and Reproductive Health

The postgraduate program in Sexual and Reproductive Health at the Sydney Medical School is one of the most comprehensive in the world.

This interprofessional, multidisciplinary postgraduate program in Sexual and Reproductive Health provides high-quality training to develop advanced practitioners for the future.

The program offers four pathways or specialisations:

- HIV and STIs
- Reproductive Health and Fertility
- Psychosexual Therapy
- Public Health.

Globally, the challenges of sexual and reproductive health, including HIV/STIs, infertility, and unintended pregnancy, continue to be a significant public health issue. Challenges to sexual function and wellbeing also impact on the health of individuals.

Comprehensive prevention and treatment of sexual and reproductive health issues require a thorough understanding of the psychosocial contexts in which they occur, as well as the biological and diagnostic aspects.

The postgraduate program in Sexual and Reproductive Health enables students to address these challenges through a range of units of study. Compulsory and stream-specific units provide foundational competence in these areas, while a wide range of electives creates the opportunity to further explore areas of interest.

The interprofessional and multidisciplinary structure of the program encourages students to develop effective collaborative approaches to employment in a variety of healthcare settings.

The program is designed to provide the maximum professional relevance, flexibility and choice. All units of study engage the current evidence base and encourage critical engagement with the evidence.

To facilitate the best educational and professional outcomes from their studies, each student is advised to discuss their unit of study choices with one of our pathway coordinators before the commencement of each semester. The program also provides opportunities for students to transition to higher degree research candidature.

## Outcomes

Graduates will have opportunities to:

- develop high levels of knowledge and appropriate skills in dealing with the psychosocial contexts, effective prevention strategies and management techniques for HIV, STIs, Sexual and Reproductive Health issues
- learn to work collaboratively in multidisciplinary teams on the practical challenges faced by professionals working in these areas
- acquire skills recognised as essential components of the professional training in HIV and STIs, sexology/sexual health counselling/psychosexual therapy and reproductive health and fertility
- learn to critically evaluate relevant research and contribute to the growing body of evidence-based, effective interventions.

### Course options

- Graduate Certificate in Medicine (Sexual and Reproductive Health)
- Graduate Certificate in Science in Medicine (Sexual and Reproductive Health)
- Graduate Diploma in Medicine (Sexual and Reproductive Health)
- Graduate Diploma in Science in Medicine (Sexual and Reproductive Health)
- Master of Medicine (Sexual and Reproductive Health)
- Master of Science in Medicine (Sexual and Reproductive Health)
- Master of Medicine (Advanced) (Sexual and Reproductive Health)
- Master of Science in Medicine (Advanced) (Sexual and Reproductive Health)

### Accreditation

Components of the degree count towards formal study requirements for the Advanced Training of the Chapter of Sexual Health Medicine of the Royal Australasian College of Physicians.

Completing the master's degree in the Psychosexual Therapy pathway meets the sexological education and training requirements for professional accreditation with the Society of Australian Sexologists and ASSERT NSW.

### Admission requirements

Admission requirements vary depending on the course and pathway chosen.

For entry to the Master of Medicine, or the Graduate Certificate or Graduate Diploma in Medicine, you need a recognised medical degree.

The Master of Science in Medicine requires a recognised bachelor's degree in a health or science-related discipline with either the equivalent of first or second-class honours or equivalent work experience.

The Graduate Certificate or Graduate Diploma in Science in Medicine require a bachelor's degree in a health or science-related discipline or a minimum of five years professional work experience in a health-related field.

An advanced option is available if you have completed the master's degree with an average mark of at least 75 percent in 24 credit points of compulsory and/or stream-specific units.

### Course summary: Master of Science in Medicine or Master of Medicine (Sexual and Reproductive Health)

**Duration:** 1 year full time

**Total credit points required:** 48

**Commencing:** March/July

**Mode:** on-campus day, online

**Eligibility for international students:** This course is available to international students (student visa holders and other eligible visa holders). For compulsory intensive study components in this course, students will need to be onshore.

**IELTS:** 7.0 overall (at least 6.5 in each band)

- [sydney.edu.au/courses/master-of-medicine-sexual-reproductive-health](https://sydney.edu.au/courses/master-of-medicine-sexual-reproductive-health)

## Sexual and Reproductive Health pathways

### HIV and STIs

Compulsory units of study	
Introduction to Clinical Epidemiology	6
Professional Practice	6
Stream-specific units of study	
Introduction: Sexual and Reproductive Health	6
Advanced STIs	6
Advanced HIV Infection	6
Diagnostic Methods in Sexual Health	6
Public Health: Sexual and Reproductive Health	6
General elective units of study	
Counselling for Health Professionals	6
Advanced Readings in Sexual Health	6
Variations in Sexual Function	6
Medical Management of Interpersonal Violence	6
Sexual Health Promotion 1	6
Reproductive Endocrinology and Infertility	6
Introductory Biostatistics	6
Advanced Adolescent Sexual Health	6
Contraception and Preconception Care	6
Sex, Gender and Sexuality	6
Sexual Health and Relationships Education	6
Infection Control and Epidemiology	6
Culture, Health Illness and Medicine	4
Global Perspectives of HIV/AIDS	4
Health Systems in Developing Countries	4

### Reproductive Health and Fertility

Compulsory units of study	
Introduction to Clinical Epidemiology	6
Professional Practice	6
Stream-specific units of study	
Introduction: Sexual and Reproductive Health	6
Reproductive Endocrinology and Infertility	6
Contraception and Preconception Care	6
Public Health: Sexual and Reproductive Health	6
General elective units of study	
Counselling for Health Professionals	6
Advanced Readings in Sexual Health	6
Advanced STIs	6
Diagnostic Methods in Sexual Health	6
Variations in Sexual Function	6
Medical Management of Interpersonal Violence	6
Sexual Health Promotion 1	6
Introductory Biostatistics	6
Advanced HIV Infection	6
Advanced Adolescent Sexual Health	6
Sex, Gender and Sexuality	6
Sexual Health and Relationships Education	6
Women's and Children's Health	4
Culture, Health Illness and Medicine	4
Health Systems in Developing Countries	4



## Psychosexual Therapy

Compulsory units of study	
Introduction: Sexual and Reproductive Health	6
Professional Practice	6
Stream-specific units of study	
Counselling for Health Professionals	6
Variations in Sexual Function	6
Counselling in Psychosexual Therapy	6
Sex, Gender and Sexuality	6
Advanced Issues in Psychosexual Therapy	6
General elective units of study	
Advanced Readings in Sexual Health	6
Advanced STIs	6
Advanced HIV Infection	6
Reproductive Endocrinology and Infertility	6
Sexual Health Promotion 1	6
Advanced Adolescent Sexual Health	6
Contraception and Preconception Care	6
Sexual Health and Relationships Education	6
Public Health: Sexual and Reproductive Health	6
Cognitive Behaviour Therapy	6
Medical Management of Interpersonal Violence	6

## Public Health

Compulsory units of study	
Introduction to Clinical Epidemiology or	6
Epidemiology Methods and Uses	6
Professional Practice	6
Stream-specific units of study	
Introduction: Sexual and Reproductive Health	6
Sexual Health Promotion 1	6
HIV/STI Program Delivery	6
Public Health: Sexual and Reproductive Health	6
Global Perspectives of HIV/AIDS	4
Foundations of International Health	6
General elective units of study	
Counselling for Health Professionals	6
Advanced Readings in Sexual Health	6
Advanced STIs	6
Introductory Biostatistics	6
Disease Prevention and health Promotion	6
Quality and Safety in Health Care	6
Introduction to Public Policy	6
Advanced HIV Infection	6
Advanced Adolescent Sexual Health	6
Contraception and Preconception Care	6
Sex, Gender and Sexuality	6
Sexual Health and Relationships Education	6
Global Communicable Disease Control	4
Women's and Children's Health	4
Culture, Health Illness and Medicine	4
Health Systems in Developing Countries	4
International Health Project Management	6
Public Health Program Evaluation Methods	2
Vaccines in Public Health	2

## Staff profile

**Dr Shailendra Sawleshwarkar**  
Course Coordinator, Sexual and Reproductive Health

Clinical Academic, Western Sydney Sexual Health Centre, Department of Infectious Diseases, Western Sydney Local Health District

Dr Sawleshwarkar is a physician working in HIV, STIs and sexual health. He is passionate about capacity building for global health and development.



# Sleep Medicine

Designed for professionals already working in the area of sleep medicine, or clinical graduates wishing to develop expertise in the field, the program provides up-to-date knowledge of sleep theory and practice. It is delivered online and provides training in clinical, theoretical and research techniques.

The program is delivered by internationally recognised clinicians, academics and researchers who have had a major impact on the research and treatment of sleep disorders. This program has been training domestic and international clinicians from diverse professional backgrounds, including physicians, medical registrars, dentists, scientists, nurses and psychologists, for more than 20 years.

## Course options

- Graduate Certificate in Medicine (Sleep Medicine)
- Graduate Certificate in Science in Medicine (Sleep Medicine)
- Graduate Diploma in Medicine (Sleep Medicine)
- Graduate Diploma in Science in Medicine (Sleep Medicine)
- Master of Medicine (Sleep Medicine)
- Master of Science in Medicine (Sleep Medicine)
- Master of Medicine (Advanced) (Sleep Medicine)
- Master of Science in Medicine (Advanced) (Sleep Medicine)

## Sleep Medicine units of study

Compulsory unit of study	CP
Introduction to Clinical Epidemiology	6
Applied Sleep Medicine	6
Stream-specific units	
Introduction to Sleep Medicine	6
Breathing Disorders of Sleep	6
Non-Respiratory Sleep Disorders	6
Diagnosis and Treatment of Sleep Disorders	6
General elective units	
Advanced Sleep Physiology	6
Advanced Sleep Medicine	6

## Admission requirements

For admission to the graduate certificate or graduate diploma, you need a recognised medical degree, a bachelor's or postgraduate degree in a health or science-related discipline or at least five years' professional work experience in a health-related field.

The Master of Medicine degree requires a recognised medical degree. The Master of Science in Medicine requires a bachelor's or postgraduate degree in a health or science-related discipline, plus a minimum of 12 months work experience.

The advanced option is available to those who have completed the master's degree with an average mark of at least 75 percent in 24 credit points of compulsory and/or stream-specific units of study. Department permission is also required.

## Course summary: Master of Medicine (Sleep Medicine)

**Duration:** 2-6 years part time

**Credit points required for award:** 48

**Commencing:** March/July

**Mode:** online

**Eligibility for international students:**

This course is not available to student visa holders. It is available to international students offshore or on other visas with study rights.

**IELTS:** 7.0 overall (at least 6.5 in each band)

- [sydney.edu.au/courses/master-of-medicine-sleep-medicine](https://sydney.edu.au/courses/master-of-medicine-sleep-medicine)

# Surgery

Sydney Medical School is home to one of the largest academic surgical departments in Australasia, and delivers courses developed and taught by highly regarded surgeons and academics.

Our surgery program offers a range of courses for medical graduates, surgical trainees and surgeons. There is a wide choice of coursework, allowing you to tailor a program to your interests.

The knowledge you develop in our courses complements the practical experience you can obtain through the Royal Australasian College of Surgeons (RACS) training program, and will augment your research, leadership and communication skills.

## Course options

The discipline of Surgery offers five programs at the postgraduate level:

- Graduate Certificate in Surgical Sciences
- Graduate Certificate in Advanced Clinical Skills (Surgical Anatomy)
- Graduate Certificate in Surgery (Breast Surgery)
- Master of Surgery
- Doctor of Clinical Surgery.



## Master of Surgery

Designed for clinicians, this course gives you the knowledge and skills to apply the best available research evidence to surgical patient care, and broaden your knowledge base through a range of elective units of study.

You will enter one of five streams:

- Surgical Anatomy
- Surgical Sciences
- Surgical Skills
- Breast Surgery
- Surgical Research Dissertation.

You will also complete a core unit in clinical epidemiology or biostatistics.

Master's candidates in the Surgical Research Dissertation stream will complete a combination of coursework and a research dissertation on a specialty. Available specialties are listed at:

- [sydney.edu.au/medicine/surgery/coursework](http://sydney.edu.au/medicine/surgery/coursework)

Master's candidates in the Breast Surgery stream can complete coursework or a combination of coursework and research dissertation.

Master's candidates in the other three streams will complete coursework only (there is no dissertation).

### Accreditation

The Master of Surgery is accredited by the Royal Australasian College of Surgeons (RACS).

### Admission requirements

You need to have a recognised medical degree and also be one or more of the following:

- a current Fellow of RACS (or equivalent)
- a registered trainee on the RACS Surgical Education and Training program (or equivalent)
- currently employed as a medical officer in the public hospital system in Australia.

Stream-specific units in breast surgery are available only to students who are currently undertaking or have completed sub-specialty training in breast surgery.

Units of study completed for the Graduate Certificate in Advanced Surgical Skills, Surgical Sciences or Breast Surgery can be used as credit toward the Master of Surgery, providing you do not graduate from the graduate certificate.

Please note: Course duration, credit points required for award, commencing semester, study mode and availability for international students varies depending on the stream you enter. Please visit the relevant course pages at:

- [sydney.edu.au/courses](http://sydney.edu.au/courses)



### Inside view

**Dr Rob Pearlman**  
Master of Surgery candidate, 2016

“The surgical anatomy stream largely consists of a whole body dissection course run by two of the most passionate professors you could hope for. Those units were incredibly useful to passing the surgical primary exam which is a necessary first step to a training position.

“Having formal teaching on the latest evidence-based surgical practice has also been very useful as it can be difficult when working full time to know what has changed since medical school.”



## Graduate Certificate in Surgical Sciences

The Graduate Certificate in Surgical Sciences provides an opportunity for medical students and graduates to prepare for the Royal Australasian College of Surgeons (RACS) primary examination.

### Admission requirements

You need to have a recognised medical degree or enrolment and successful completion of all pre-clinical studies in a recognised graduate medical program.

## Graduate Certificate in Advanced Clinical Skills (Surgical Anatomy)

This course provides a sound knowledge and understanding of human anatomy underpinning successful surgical practice through a series of whole-body dissections taught in small groups by sub-specialist surgeons. The course is highly regarded and places are limited.

There are four units of regional surgical dissection and they can stand alone as the Graduate Certificate of Advanced Surgical Skills or can be credited to the Master of Surgery (Surgical Anatomy) or undertaken as individual units of study (as non-enrolled study) or as part of the Master of Surgery.

Because these units of study are priced above the usual coursework fees, enrolled students can only enter the units by first enrolling into the Graduate Certificate in Advanced Surgical Skills, which can be simultaneous to enrolment in the Master of Surgery.

### Admission requirements

Same as for the Master of Surgery.

## Staff profiles



**Professor Andrew Spillane**  
Professor of Surgical Oncology,  
The University of Sydney

Professor Spillane specialises in breast cancer oncoplastic surgery and melanoma surgery. He is a senior surgical oncologist at the Melanoma Institute Australia, the Mater Hospital and Royal North Shore Hospital, Sydney.

Professor Spillane co-developed the graduate certificate (see right) as an adjunct to on-the-job training offered under the BreastSurgANZ training program. It aims to ensure that newly trained breast surgeons have a consistent standard of knowledge about contemporary breast surgical practices and deep insights into the multidisciplinary management of their patients.



**Associate Professor Sanjay Warriar**  
Course Coordinator, Graduate Certificate  
in Surgery (Breast Surgery)

Consultant Breast Oncology and Oncoplastic Surgeon at Chris O'Brien Lifehouse, Royal Prince Alfred and Mater hospitals; Visiting Medical Officer at BreastScreen NSW; and lead researcher at the Royal Prince Alfred Academic Institute

Associate Professor Warriar is a dedicated and compassionate consultant, surgeon and researcher, with goals of developing and creating a culture of academia within his working environments.

## Graduate Certificate in Surgery (Breast Surgery)

This course provides surgeons with the latest in-depth knowledge of breast oncology and breast surgical and oncoplastic techniques. It is the first formal educational credential for specialist breast surgery in Australia and New Zealand and has been endorsed by BreastSurgANZ.

The comprehensive curriculum will supplement the practical experience you acquire while undertaking your BreastSurgANZ training fellowship. A supportive learning environment will help you to understand and apply evidence and refine your clinical care of patients. As well as enhancing your surgical practice, it will enable you to participate effectively in multidisciplinary team meetings.

The degree is also suitable for post-fellowship trainees, and individual units of study can be completed outside of the degree to tailor, enhance or update your knowledge and theoretical understanding of a broader range of surgical options for practising breast surgeons.

Leading Australian clinicians have contributed to the program, including breast and plastic surgeons, medical and radiation oncologists, radiologists, epidemiologists, breast physicians and psychologists.

The course can also be undertaken at master's level with the addition of core and elective units of study. Some units of study may be undertaken by non-enrolled students as a short course. Breast surgery is the only sub-specialty that can be completed either by a combination of coursework and dissertation or via coursework only.

### Admission requirements

This course is only available to Fellows of the Royal Australasian College of Surgeons (RACS) in General Surgery or the equivalent and who are training or have completed training in breast surgery.

## Doctor of Clinical Surgery

The Doctor of Clinical Surgery is a comprehensive program that involves a blend of clinical and non-clinical coursework and research to enhance your academic career skills. It is designed to be undertaken in conjunction with the surgical training component of RACS.

### Admission requirements

This program is for medical graduates with an excellent academic record in their postgraduate careers. The Discipline of Surgery sets additional requirements. For more information, please see:

– [sydney.edu.au/courses/doctor-of-clinical-surgery](https://sydney.edu.au/courses/doctor-of-clinical-surgery)

## Surgery

Compulsory units (for all streams)	CP	Elective units	CP
Introductory Biostatistics or	6	Practical Research Methods for Surgeons II	6
Introduction to Clinical Epidemiology	6	Imaging Surgical Patients	6
<b>Stream-specific core units: Surgical Sciences</b>		Surgical Metabolism	6
Surgical Metabolism	6	Vascular and Endovascular Surgery	6
Surgical Research and Evaluation	6	Microsurgery	6
Surgical Research: Translation and Innovation	6	Transplantation Immunobiology	6
Surgical Pathology	6	Principles and Practice of Transplantation	6
<b>Stream-specific core units: Surgical Skills</b>		Advanced Hepatobiliary and Pancreatic Surgery	6
Surgical Skills	6	Surgical Skills	6
Physiology and Pharmacology for Surgeons	6	Physiology and Pharmacology for Surgeons	6
Surgical Anatomy based on GSSE	6	Surgical Research and Evaluation	6
Surgical Pathology	6	Surgical Research: Translation and Innovation	6
<b>Stream-specific core units: Breast Surgery</b>		Surgical Oncology: Principles and Practice	6
Basic Sciences and Benign Breast Disease	6	Urological Oncology	6
Malignant Breast Disease and MDTs	6	Surgical Pathology	6
Oncoplastic Breast Surgery Level 1	6	Introduction to Systematic Reviews*	6
Oncoplastic Breast Surgery Level 2	6	Epidemiology Methods and Uses*	6
<b>Stream-specific core units: Research</b>		Multiple Regression and Stats Computing*	6
Dissertation A and B	18	Categorical Data Analysis*	6
<b>Stream-specific core units: Surgical Anatomy**</b>		Survival Analysis*	6
Head and Neck by Dissection	6	Cancer Prevention and Control*	6
Thorax Back and Spinal Cord by Dissection	6	Chronic Disease Prevention and Control*	6
Upper and Lower Limbs by Dissection	6		
Abdomen and Perineum by Dissection	6		

\* These electives are only available for students taking the Surgical Sciences stream in online/distance mode.

\*\*These units can only be completed as part of the Graduate Certificate in Advanced Clinical Skills (Surgical Anatomy).

More elective units of study are available.  
For more information, please refer to [sydney.edu.au/medicine/surgery/postgraduate/coursework](http://sydney.edu.au/medicine/surgery/postgraduate/coursework)



# How to apply

Join our community of outstanding local and international students.

## Step 1: Check entry requirements

Make sure you meet the minimum eligibility criteria for your chosen degree. For specific requirements, please refer to:

- [sydney.edu.au/medicine/study/postgraduate](https://sydney.edu.au/medicine/study/postgraduate)

## Step 2: Check language requirements

If English is not your first language, you will need to provide evidence of minimum English language proficiency in one of the following ways:

- evidence of successfully completed recognised tertiary studies in which the language of the institution and of instruction, examination and assessment was English (conditions apply).
- evidence of a successfully completed English proficiency test, with results as required by each course.

English language requirements vary on a course-by-course basis. Please visit the course page for your course to learn more about its specific requirements.

- [sydney.edu.au/courses](https://sydney.edu.au/courses)

## Step 3: Submit your application

Submit your application with the relevant documents directly online to the University via the relevant course page:

- [sydney.edu.au/courses](https://sydney.edu.au/courses)

For application deadlines, please refer to your course online at:

- [sydney.edu.au/courses](https://sydney.edu.au/courses)

## More help

For further information about our courses, requirements and processes, please visit:

- [sydney.edu.au/medicine](https://sydney.edu.au/medicine)



Take the next step in your career by undertaking a professional medical degree at the University of Sydney.

[sydney.edu.au/medicine/study/postgraduate](https://sydney.edu.au/medicine/study/postgraduate)

sydney.edu.au

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#### **Contact us**

[sydney.edu.au/ask](https://sydney.edu.au/ask)

1800 SYD UNI (1800 793 864)

+61 2 8627 1444 (outside Australia)

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