UNSW Sydney is ranked in the top 50 in the 2020 QS World Universities Rankings.

Attracting the brightest students who can learn alongside world leading researchers and clinicians.

Opportunities for training and placement in industry.

Expanding career opportunities through up-to-date training.

Networking with students and graduates throughout the Asia-Pacific region.
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Welcome from the Dean

Welcome to UNSW Medicine. As one of the world’s top medical schools, our aim is to support and develop our students, our clinicians and our researchers to be leaders and innovators in health. We attract brilliant students from across the globe who collaborate with our world-leading researchers and clinicians to translate knowledge into breakthrough treatments and cures that directly benefit our communities.

At UNSW Sydney, we work closely with some of Australia’s finest hospitals, research institutes and healthcare organisations. These partnerships and our collective capacity allow us to continuously improve the way medicine is learned and how it is practiced. We are constantly evolving, analysing the way modern healthcare is delivered and capitalising on new health technologies and insights to integrate them into our courses, research and clinical environments.

At the School of Medical Sciences, UNSW Medicine welcomes you to our global community where, as alumni of this University, you will contribute to the effective, efficient and equitable delivery of therapeutics to patients. We are committed to helping you develop the knowledge, skills and values that will make a difference and further your career. We welcome you most warmly.

Scientia Professor Vlado Perkovic
Dean, UNSW Medicine
Welcome from School of Medical Sciences

Pharmaceutical medicine is the medical scientific discipline concerned with the discovery, development, evaluation, registration, monitoring and clinical delivery of newly developed medicines for therapeutic treatment. This program is administered by the School of Medical Sciences.

The Master of Pharmaceutical Medicine program provides pathways into different careers in the pharmaceutical / biotechnology / medical technology industries with course offerings that allow students to gain sufficient knowledge and skills for those careers, including regulatory affairs, pharmacovigilance, clinical trials, compliance, health technology assessment, medical affairs or medical science liaison roles.

The program supports the federal government’s innovation package: the program is a unique hub, linking academia with the pharmaceutical industry and government health departments and can be used to strengthen these linkages in your own career.

We have designed the Pharmaceutical Medicine program with a focus on Australia and the Asia-Pacific region – this provides a breadth of knowledge which is undoubtedly a major strength for our graduates, especially given our geographical location.

Another key advantage of the program is the focus on student-centred learning, collaboration and the development of skills needed for staff in the rapidly changing pharmaceutical industry. Students are exposed to real-world problems and develop their business writing skills by producing documents such as analytical reports, clinical trial protocols and regulatory submissions.

We hope you find our program meets your future career aspirations and would be happy to discuss your plans further with you.

School of Medical Sciences
THE PHARMACEUTICAL DEVELOPMENT PROCESS

1. Drug Discovery, Development and Pre-clinical Testing
   - 3 - 6 YEARS

2. Clinical Trials
   - 6 - 7 YEARS

3. Registration
   - 1 - 2 YEARS

CAREERS IN PHARMACEUTICAL MEDICINE

Developmental Scientist
There are many roles for research and development scientists in a pharmaceutical company including being involved in the initial development and screening of potential therapeutic compounds or testing the efficacy and safety of the compounds.

Clinical Research Associate
Clinical research staff oversee clinical trials. They are involved in designing protocols, working with physician investigators, training clinic personnel and evaluating clinical data.

Regulatory Affairs Associate
Regulatory affairs specialists write and submit the product dossiers and liaise with the regulatory agencies, head office and manufacturing sites to resolve any questions prior to and after approval of new therapeutic products.
Pharmacovigilance Associate
Pharmacovigilance associates work in the area of drug safety and are involved in the collection, detection, assessment, monitoring and prevention of adverse effects with therapeutic products.

Health Economist
Health economists are involved in the pricing negotiations for products. They design, collect and evaluate data pertaining to the cost effectiveness of the products and liaise with the pricing authorities to find an acceptable market price for the product.

Medical Affairs Manager / Medical Science Liaison
MSLs are field-based therapeutic area specialists. They interact with physicians and scientists in the health care community to maximize proper use of therapeutic products.
MISSION STATEMENT

The Pharmaceutical Medicine program produces graduates with the knowledge and skills to make a meaningful contribution to medicines research, development and access, working across the pharmaceutical industry, academia and government, with the goal of improving the health and wellbeing of the community.

“Based on what I learnt through the UNSW Masters program, I believe I have been able to operate more effectively and confidently in the various roles I have held in the pharmaceutical industry to date. I have found my understanding of the drug development process and the way different departmental functions link together particularly invaluable for my current position within Regulatory Affairs. I thoroughly enjoyed this program and I recommend it to anyone else who wishes to gain a greater understanding of the pharmaceutical industry”

LARISSA HAMMER
Regulatory Affairs
Pharmaceutical medicine is the medical scientific discipline concerned with the discovery, development, evaluation, registration, monitoring and medical aspects of developing medicines for therapeutic treatment.

Our Pharmaceutical Medicine program was established 24 years ago and has an excellent track record of providing postgraduate level education in the discipline of pharmaceutical medicine.

Our program attracts students from a wide range of backgrounds including those who have studied medical science, medicinal chemistry, pharmacy, medicine, law, nursing, veterinary science and medical research. Students come from a wide geographical area - across Australia, New Zealand and Asia-Pacific.

UNSW programs in Pharmaceutical Medicine have been designed to ensure students are well equipped with the skills, knowledge and insights needed to competently perform their roles and future leadership responsibilities in the industry.

Opportunities may take students to careers in pharmaceutical product discovery and development; preclinical or clinical safety testing; regulatory affairs positions within a pharmaceutical company or with a regulatory agency or government health department; part of a team evaluating new products; clinical trial management; medical and scientific communications; pharmacovigilance; product compliance; medical affairs; health technology assessment; or senior managerial positions within biopharmaceutical and medical technology businesses.

Associate Professor Orin Chisholm
Program Authority, Pharmaceutical Medicine program
UNSW PHARMACEUTICAL MEDICINE ADVISORY COMMITTEE

John Skerritt
- BSc (Hons 1, Univ Medal)
  PhD FTSE FIPAA (Vic)
- Deputy Secretary for Health Products Regulation, Australian Department of Health
- Adjunct Professor, Universities of Queensland and Canberra

Liz de Somer
- BN MMedSc
  (Drug Develop)
- Alumnus
- CEO, Medicines Australia

Victoria Elegant
- MBBS DRCOG FFPM
- Vice President and JAPAC Region Head Medical, Amgen
- Adjunct Professor, UNSW

David Grolman
- MBBCh FCS(SA)
- Medical Director, Pfizer Pharmaceuticals
- Past President, APPA

Ric Day
- MBBS MD FRACP
- Professor of Clinical Pharmacology UNSW & St Vincent’s Clinical School, UNSW

Eugene Salole
- MPH PhD
- Principal and CEO, Value-Based Access Pty Ltd, Sydney
- Conjoint Professor, UNSW Medicine

Kristen Walsham
- B Appl Sci
- Therapeutic Area Specialist-CML, Medical Affairs, BMS
GOVERNANCE COMMITTEE

Margaret Morris
- BSc PhD
- Professor of Pharmacology, School of Medical Sciences, UNSW
- Head, Environmental Determinants of Obesity Research

Orin Chisholm
- BSc (Hons) GCULT PhD, SFHEA
- Program Authority and Associate Professor, School of Medical Sciences, UNSW
- Member, Federal Gene Technology Technical Advisory Committee

Richard Vickery
- BSc (Hons) PhD
- Associate Professor and Deputy Head of School (Teaching), School of Medical Sciences, UNSW

Lois Meyer
- BA (Hons), Med, PhD
- Associate Dean (Postgraduate Coursework), UNSW Medicine
- Senior Research Fellow, School of Public Health and Community Medicine, UNSW Medicine

Johnson Liu
- BSc GCULT MSc PhD
- Lecturer, School of Medical Sciences, UNSW

Kristie Leavai
- Manager, School of Medical Sciences, UNSW
OUR TEACHERS, TUTORS AND INDUSTRY SPECIALISTS

INDUSTRY SPECIALISTS

Allan Anforth, Canberra Chambers
Candy Braithwaite, Biopharmax, Singapore
Matt Britland, AstraZeneca
David Brown, Heaton-Brown Life Sciences
Gary Burgess, Cochlear
Belinda Butcher, WriteSource Medical
Helen Critchley, Sanofi
Theresa Dickson-Bogie, TDB Quality and Regulatory Consulting
Pamela Donohoe, Syneos Health
Victoria Elegant, Amgen, Hong Kong
Megan Ford, Ingham Institute
Josie Gabites, Cpharm
Adam Gordois, Covance
David Grolman, Pfizer
Andrew Heaton, Cure JM Foundation, USA
Christopher Johnston, Boehringer Ingelheim
Lauren Kennedy, Abbvie
David Kingston, DJ Medical
Charlotte Lemech, Scientia Clinical Research
Jamie Lopez, Bristol-Myers Squibb
Gabrijela Matanovic, Apotex
Gisela Mautner, Noxopharm
Simon McErlane, Amicus Therapeutics
Hanan McClellan, consultant
Mounir Mina, Novartis, Singapore
Yuri Morgulis, GSK
Diana Nazemian-Pour, Bristol-Myers Squibb
Mary Nteris, Enimera RegsPlus
George Papadopoulos, Lucid Consulting
Mike Parker, AstraZeneca
Tobey-Ann Pinder, Pharmcare Laboratories
Natalia Price, Abbvie
Michael Rasmussen, Mediconsult
Eugene Salole, Value-Based Access
Brendan Shaw, Shawview Consulting
Jagdev Sidhu, Biosherpa Consulting
Ling Su, Shenyang Pharmaceutical University, China
Dougal Thring, Linear Clinical Research
Peter Vervaart, 4Cyte Pathology
David Wilson, Pacific Life Sciences

ACADEMIC EXPERTS

Orin Chisholm
Ric Day
Caroline Ford
Peter Gunning
Jeff Holst
Michael Kennedy
Wendy Lipworth
Johnson Liu
Al Mellick
Tamie Milder
Jason Wong
Arlen Wilcox

TGA EXPERTS

Akinola Adisa
Claire Behm
Adrian Bootes
Pamela Carter
Amanda Craig
Michelle McNiven
Glenn Smith
OUR LEARNING AND TEACHING

The Pharmaceutical Medicine program has been designed to meet the needs of students wishing to undertake part-time education and training while still in employment. A key feature of our learning and teaching is its student-centred focus on individual and collaborative learning experiences.

Our approach is to provide quality learning that is relevant to the real world. This is enhanced by students having access to tutors with specialist knowledge and experience in therapeutic development.

Students normally undertake 1 - 2 courses per term. Each course is only delivered once per year dependent on enrolment numbers. All Pharmaceutical Medicine courses (core and elective) are worth six Units of Credit.

Optional field trips:
An optional 2 day on-site, interactive session at the Therapeutic Goods Administration facilities in Canberra is organised once per year to coincide with the Regulatory Affairs course (PHAR9104) and is highly recommended.

Webinar sessions
Webinar sessions are held out of normal business hours, online between 8pm and 9:30pm Sydney time on weekdays. These sessions provide students with the opportunity to ask questions and resolve problems they have faced with the course materials. Students may also be required to deliver presentations in these sessions.

Course evaluation and development
Each year feedback is sought from students through the myExperience survey system. Continual improvements are based on this feedback.

Non-award study
Those wishing to undertake selected courses for professional development may elect to study as non-award students at UNSW Sydney. This option allows students to select individual courses for study which will not contribute to the conferral of a degree.

Recognition of prior learning
Students who have undertaken study of similar postgraduate courses may elect to have their studies recognised as prior learning. This allows students to obtain credit for these courses, if appropriate.

Research programs in the School of Medical Sciences
The School of Medical Sciences (SoMS) offers a range of Masters by Research and Doctoral programs. Research degrees may be undertaken in any aspect of pharmaceutical medicine, medical education, pharmacology, pathology, anatomy or physiology. Please visit medicalsciences.med.unsw.edu.au/students postgraduate-research for further information about our research programs. Students may also consider undertaking a Professional Doctorate in their workplace after completion of the Master of Pharmaceutical Medicine. For further information, please contact the Pharmaceutical Medicine Unit.

MBA-MTP
From 2020, the Pharmaceutical Medicine program is partnering with the Australian Graduate School of Management (AGSM) and the School of Biomedical Engineering to offer a new specialisation in the online MBAX program (program 8625). This specialisation in Medical Technology and Pharmaceuticals (MTP) is a unique offering combining business skills, strategic thinking and technical expertise in therapeutic product development needed by managers in today's highly competitive MTP ecosystem. Alumni of the Master of Pharmaceutical Medicine program who are moving into leadership positions in their industry may apply for credit transfer (Recognition of Prior Learning) towards this MBA program.
PHARMACEUTICAL MEDICINE
PROGRAM OUTLINE

<table>
<thead>
<tr>
<th>Program</th>
<th>Total number of courses</th>
<th>Program Duration</th>
<th>Course Selection</th>
</tr>
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<tbody>
<tr>
<td>Master of Pharmaceutical Medicine (9370)</td>
<td>8 courses (48 units of credit)</td>
<td>Approximately 2 years (part-time) or 1 year (full-time)</td>
<td>4 core courses 1 course for each of the 2 core options 2 electives</td>
</tr>
<tr>
<td>Graduate Diploma in Pharmaceutical Medicine (5371)</td>
<td>6 courses (36 units of credit)</td>
<td>1.5 years (part-time)</td>
<td>Any 6 courses</td>
</tr>
<tr>
<td>Graduate Certificate in Pharmaceutical Medicine (7370)</td>
<td>4 courses (24 units of credit)</td>
<td>1 year (part-time)</td>
<td>Any 4 courses</td>
</tr>
</tbody>
</table>

Please note that direct entry is only granted into the Master of Pharmaceutical Medicine program, with the Graduate Diploma and Graduate Certificate only offered as early exit options from the Masters program – see Program structure below. Entry requirements can be found on page 20.

DIRECT ENTRY

Program Code: 9370
4 year degree in cognate discipline OR higher qualification OR
3 year degree in cognate discipline + 1 year experience

Successful completion of 8 courses:
- PHAR9101
- PHAR9121
- PHAR9122
- PHAR9104 / PHAR9113
- PHAR9120 / PHAR9116
- PHAR9114
- Plus 2 electives

Transfer to Program code: 7370

Successful completion of 6 courses
- PHAR9101
- PHAR9121
- PHAR9122
- PHAR9104 / PHAR9113
- PHAR9120 / PHAR9116
- PHAR9114

Transfer to Program code: 5371

Successful completion of 4 courses
- PHAR9101
- PHAR9121
- PHAR9122
- PHAR9104 / PHAR9113
- PHAR9120 / PHAR9116
- PHAR9114
- Plus 2 electives

Transfer to Program code: 7370

Graduate Certificate in Pharmaceutical Medicine

Master of Pharmaceutical Medicine

Graduate Diploma in Pharmaceutical Medicine
LIST OF PHARMACEUTICAL MEDICINE COURSES 2020

<table>
<thead>
<tr>
<th>Course Offered</th>
<th>Code</th>
<th>Offered</th>
<th>Type</th>
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<tr>
<td>Introduction to the Therapeutics Industry</td>
<td>PHAR9101</td>
<td>Term 1</td>
<td>Core</td>
</tr>
<tr>
<td>Medical Affairs</td>
<td>PHAR9122</td>
<td>Term 2</td>
<td>Core</td>
</tr>
<tr>
<td>Pharmacovigilance</td>
<td>PHAR9121</td>
<td>Term 3</td>
<td>Core</td>
</tr>
<tr>
<td>Health Technology Assessment</td>
<td>PHAR9114</td>
<td>Term 1</td>
<td>Core</td>
</tr>
<tr>
<td>Clinical Trials</td>
<td>PHAR9120</td>
<td>Term 2</td>
<td>Clinical Trials Option 1 of 2</td>
</tr>
<tr>
<td>Clinical Trial Management</td>
<td>PHAR9116</td>
<td>Term 1</td>
<td>Clinical Trials Option 2 of 2</td>
</tr>
<tr>
<td>Regulatory Affairs</td>
<td>PHAR9104</td>
<td>Term 3</td>
<td>Regulatory Affairs Option 1 of 2</td>
</tr>
<tr>
<td>International Regulatory Affairs</td>
<td>PHAR9113</td>
<td>Term 1</td>
<td>Regulatory Affairs Option 2 of 2</td>
</tr>
<tr>
<td>Pharmaceutics</td>
<td>PHAR9111</td>
<td>Term 2</td>
<td>Elective</td>
</tr>
<tr>
<td>Cancer Therapeutics</td>
<td>PHAR9117</td>
<td>Term 3</td>
<td>Elective</td>
</tr>
<tr>
<td>Therapeutics</td>
<td>PHAR9118</td>
<td>Term 3</td>
<td>Elective</td>
</tr>
<tr>
<td>Pharmaceutical Medicine Internship</td>
<td>PHAR9124</td>
<td>All terms</td>
<td>Elective</td>
</tr>
<tr>
<td>Global Regulatory Affairs Leadership</td>
<td>PHAR9130</td>
<td>Term 3</td>
<td>Elective</td>
</tr>
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Please note: courses may not be run if student enrolment numbers are low - please contact the Pharmaceutical Medicine Unit if you have questions about course offered in 2020

“This Masters Program has given me very comprehensive knowledge of the drug development process right through from drug discovery to post-market surveillance. Of most benefit for me in my role as a Lead CRA was the molecular and therapeutic subjects giving me a broad and well rounded understanding that can easily be translated across therapeutic areas. The subjects are both relevant and progressive, giving me the skills I need to ensure that I can excel in my role.”

SARAH LOOMES
Clinical Project Manager
PHARMACEUTICAL MEDICINE COURSE DESCRIPTIONS

PHAR9101 Introduction to the Therapeutics Industry (core)
Offered Term 1, 2020

This course begins with an introduction to the milestones of pharmaceutical product development and the roles of the people who work to achieve the development of a new product. It will then focus on the role of therapeutics in improving health outcomes; pharmaceutical image and ethics; the history of the therapeutics industries; how companies are created and structured; current and future strategies for therapeutics development; the role of trade, global harmonisation and the evolution of new funding models in future therapeutics development.

PHAR9122 Medical Affairs (core)
Offered Term 2, 2020

Medical Affairs is an emerging specialisation within the pharmaceutical industry which is responsible for managing key opinion-leader relationships, publishing data from corporate-sponsored trials, presenting educational information about a product or therapeutic landscape, answering questions from healthcare providers regarding product safety or efficacy that is not addressed in a product’s label and supporting research initiatives outside labelled indications for marketed products. This course will cover the international and local ethical, legal and marketing codes of compliance, quality use of medicines as well as the writing and interpretation of key scientific documents such as product information, consumer medicine information and clinical trial results. Off-label use of medicines and access to unlicensed products will be covered. Product withdrawals will also be discussed. Medical Governance principles and strategic alignment with business goals, development of Medical Affairs plans, understanding Advisory Boards’ objectives, development of local medical research initiatives and how to develop a local publication strategy will be covered in the course.

PHAR9121 Pharmacovigilance (core)
Offered Term 3, 2020

Pharmacovigilance (PV) is the science and activities relating to the detection, assessment, understanding and prevention of adverse effects or any other drug-related problems. This course covers the identification and quantification of risk associated with medicines, recognition and interpretation of adverse drug reactions (ADRs) and their underlying toxicopathology and pharmacology and the regulatory requirements for preclinical testing including toxicity studies. Students will learn to write and interpret a number of documents associated with pharmacovigilance including Risk Management Plans (RMPs), Periodic Safety Update Reports (PSURs), Periodic Benefit-Risk Evaluation Report (PBRER), Development Safety Update Reports (DSURs).

The international and Australian guidelines for adverse event reporting, international (ICH) guidelines, European and US PV systems, the role of the qualified person and compliance will be addressed in the course.

PHAR9114 Health Technology Assessment (core)
Offered Term 1, 2020

Health Technology Assessment (HTA) focuses on the cost-benefit analysis of therapeutic interventions and the role of evidence-based medicine in determining the benefits of these interventions in health management. This course introduces students to the requirements for cost effectiveness for therapeutics and the role of evidence-based medicine in the decision-making process for these products. It covers pricing considerations for ensuring successful applications to the Pharmaceutical Benefits Advisory Committee (PBAC) for entry of medicines on the Pharmaceutical Benefits Scheme (PBS) and the Medical Services Advisory Committee (MSAC) for Medicare rebates for medical services in Australia. Students will also discuss the different economic methodologies used to determine the cost-benefit analysis of a medicine and when these different methodologies should be used. Students will learn about international HTA systems and engage in debate around the ethics and value determination of therapeutic products to society.
PHAR9120 Clinical Trials  
(Clinical Trials option 1)  
Offered Term 2, 2020  
Clinical Trials pertains to the design, development, safe conduct and interpretation of trials for therapeutic products in humans. This course is designed to provide students with the skills to interpret the clinical literature, understand Good Clinical Practice (GCP) and clinical development and give students the skills to design and analyse clinical trials from first time in man Phase I through to Phase II, III and IV trials and registries. The course examines the importance of pharmacokinetic, pharmacodynamic and pharmacogenomic studies in humans. Adaptive clinical trial designs are also examined. Novel clinical trial endpoints such as surrogate endpoints and biomarkers will be discussed. Trial designs for different types of therapeutic products will be examined, as will the ethics of clinical trials.

PHAR9116 Clinical Trial Management  
(Clinical Trials option 2)  
Offered Term 1, 2020  
Clinical trials are an essential step in the development of a new therapeutic product. This course is designed to provide students with the skills to implement and manage clinical trials, including obtaining ethics approval. Clinical Data Interchange Standards Consortium (CDISC), electronic data capture and CONSORT will be discussed along with the creation, use, validation and security of electronic databases. Finally, the students will discuss the future of clinical trials in the development of new therapeutics and the global requirements for the conduct of clinical trials.

PHAR9104 Regulatory Affairs  
(Regulatory Affairs option 1)  
Offered Term 3, 2020  
Regulatory Affairs is responsible for ensuring the company remains compliant with all legislation and regulations pertaining to the function of the company in a particular jurisdiction. This course will provide an introduction to the regulation of therapeutic products, with particular reference to the Australian context. It will introduce students to the Australian legal system within which the regulation of therapeutic products occurs. Students will examine the regulation of various therapeutic products including prescription and non-prescription medicines, complementary medicines, biologicals and medical devices.

PHAR9113 International Regulatory Affairs  
(Regulatory Affairs option 2)  
Offered Term 1, 2020  
The course is designed to provide students with the skills in choosing and applying strategies for an application for a Therapeutic product to be registered and approved for marketing within Australia. Students will also examine approaches taken in the European Union and the USA and will be introduced to some regional jurisdictions such as Japan, China and south-east Asian countries. The course also covers the regulation of genetically-modified organisms (GMOs) in Australia and elsewhere. Students will learn about the emerging area of regulatory intelligence. Finally they will investigate the role of regulatory strategy in supporting the commercial needs of the company.
PHARMACEUTICAL MEDICINE
COURSE DESCRIPTIONS

**PHAR9111 Pharmaceutics (elective)**
*Offered Term 2, 2020*

Pharmaceutics deals with the science of making a chemical or biological entity suitable for delivery to humans as a therapeutic product. It therefore covers formulation and manufacture of these products. This course will give students the skills to understand how different types of medicines are formulated and the effect of different formulations on the properties of the medicine and the manufacturing processes for the medicine. It will cover advanced formulations such as extended and modified release tablets, patches, injectables, biologicals (such as cell and tissue therapies) and delivery devices, as well as diagnostics. Stability, bioavailability, bioequivalence and sterility requirements for medicines will be covered as will repurposing of medicines for new uses and development of new formulations.

**PHAR9117 Cancer Therapeutics (elective)**
*Offered Term 3, 2020*

The course is designed to provide you with the skills to understand the molecular basis of cancer development and progression. It covers the development of various therapeutic treatment options and guides students to an assessment of the optimal treatment options available for various cancers. Students will explore the way cancer medicines are assessed for safety and efficacy and how patients are monitored for response to therapy. Recent advances in pharmacology, pharmacogenetics, molecular biology and data analysis have converged to revolutionise the treatment of cancer, extending patient lifespans and turning some cancers into chronic conditions. Targeted therapies are rapidly improving patient outcomes while reducing unnecessary exposure in patients unlikely to respond to a particular therapy. The future now is how to combine therapies and rationally choose the best treatment options for an individual patient at different stages of their disease. Finally we look into the ethics and economics of cancer therapy and how and who should bear the burden of cost for these new advances in clinical medicine.

**PHAR9118 Therapeutics (elective)**
*Offered Term 3, 2020*

This course will introduce students to various therapeutic areas and enable them to develop an understanding of the molecular basis of disease, how this knowledge is used to develop new therapies and how to apply their learnings from previous courses to develop clinical, regulatory and reimbursement strategies to ensure a new molecule has an optimal chance of making it onto the market. The core therapeutics areas covered will include cardiovascular, endocrinology, neurology and infectious diseases. Other areas will be covered briefly and students may study a specific therapeutic area of their choosing for their main assignment to allow for individual interests.
PHAR9124 Pharmaceutical Medicine Internship
Offered Terms 1, 2 and 3, 2020

The Pharmaceutical Medicine Internship course (6 UOC) will provide a small number of students with the opportunity to gain real-world experience in the Medical Department of a Pharmaceutical or biotechnology company, the TGA, OGTR or Department of Health, a related organisation (such as a contract organisation) or the Phase I clinical trials centre at UNSW/POWH, through a workplace internship. The internship will be available to students in the Master in Pharmaceutical Medicine program. There are a small number of students progressing through these programs who do not have experience working within a pharmaceutical company and this internship will provide them with valuable work experience to enable them to compete for positions within the industry.

The Program Authority will determine, with the student and relevant organisation, a suitable internship placement and the proposed scope and focus of workplace activities with which the student can meaningfully engage and contribute. The placement will be relevant to the organisation and student and can be either project or normal operations-based.

PHAR9130 Pharmaceutical Global Regulatory Affairs Leadership (elective)
Offered Term 3, 2020

This course is designed to provide participants with the skills, knowledge and global networks to discuss and develop strategies to address principles and issues facing global pharmaceutical regulatory affairs and its role in the maintenance of public health. Participants will develop a deep understanding of therapeutic product regulation across the world and acquire the skills and self-knowledge to lead change management in international regulatory issues. It is designed for people who are currently working in pharmaceutical regulatory affairs and wanting to move into senior global management positions in regulatory affairs.

This course has been co-developed and will be co-delivered with Arizona State University, USA, as part of the PLuS Alliance.

“I found the drug development course to be very helpful in establishing a broad knowledge base for the pharmaceutical industry. I found the course to be practical in nature and very relevant to the industry and my role. It also helped me further my career through a transfer to a new role within my company. I am very grateful for the time spent doing the course and would recommend it to anyone who is new to the industry.”

BRANDON JONES
Health Economics Manager
1. Check entry requirements

Entry into our programs is based on the following criteria:

- a 3 year undergraduate degree in a cognate discipline plus relevant industry experience (see below for definition) or
- a 4 year undergraduate degree or higher qualifications in a cognate discipline.

Cognate discipline is defined as a degree in one of the following disciplines:

- biomedical / biological sciences
- pharmacy
- nursing
- veterinary science
- chemistry/medicinal chemistry
- medicine
- other (case-by-case basis)

Relevant experience is defined as:

- one year full-time equivalent experience in a medical department position at Associate level or above in the pharmaceutical or biotechnology industry (such as Medical Information Associate, Regulatory Affairs Associate, Pharmacovigilance Associate, Clinical Trials Associate, etc), a contract organisation (eg, clinical research, regulatory, economic evaluation, medical) or a clinical trials unit or
- one year full-time equivalent position within a relevant government department (such as State or Federal Department of Health, Therapeutic Goods Administration, Office of the Gene Technology Regulator or other relevant regulatory authority).
Applications can be made online at applyonline.unsw.edu.au/login

Shortly after you've lodged an application, you'll receive a letter of acknowledgment by email detailing your student ID number, and instructions on how to submit the supporting documentation to us.

The following information should be attached to the application form:

- Your Curriculum Vitae
- Employer-provided statements of service
- Originals or certified copies of your academic record and proof of completion of previous degree,

English language requirements:

If English is not your first language, or if you did not complete an assessable qualification of at least one year of duration at a university or other post-secondary educational institution within the last two years where the medium of instruction is in English, you'll need to provide evidence to show that you meet the University's English Language requirement. Visit uns.edu.au/english-requirements-policy for more information.

Closing date for applications:

- End of January for start of Term 1
- Mid May for start of Term 2
- End of August for start of Term 3

You may track the progress of your application online at my.unsw.edu.au

Successful applicants will receive a letter of offer by email. Read and follow the instructions contained in your letter to accept your offer and commence your studies with us.

After you accept your offer, you are able to enrol in your courses for study. Please refer to the Pharmaceutical Medicine website for more information: med.unsw.edu.au/pharmaceutical-medicine
FEE-HELP is an Australian Government loan to assist full fee paying students to help pay part or all of the tuition fees. FEE-HELP is available to students who are Australian citizens or Australian permanent residents with a humanitarian visa. For more information on FEE-HELP, visit studyassist.gov.au. For advice about whether you’re eligible for a FEE-HELP loan, please contact the FEE-HELP enquiry line on 1800 020 108.

### PROGRAM AND COURSE FEES

<table>
<thead>
<tr>
<th>Local program fees</th>
<th>A$ per 6 unit course</th>
<th>Total cost of program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Pharmaceutical Medicine (9370)</td>
<td>3540</td>
<td>28320</td>
</tr>
<tr>
<td>Graduate Diploma in Pharmaceutical Medicine (5371)</td>
<td>3540</td>
<td>21240</td>
</tr>
<tr>
<td>Graduate Certificate in Pharmaceutical Medicine (7370)</td>
<td>3540</td>
<td>14160</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>International program fees</th>
<th>A$ per 6 unit course</th>
<th>Total cost of program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Pharmaceutical Medicine (9370)</td>
<td>3930</td>
<td>31440</td>
</tr>
<tr>
<td>Graduate Diploma in Pharmaceutical Medicine (5371)</td>
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<td>23580</td>
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<tr>
<td>Graduate Certificate in Pharmaceutical Medicine (7370)</td>
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</tr>
</tbody>
</table>

Fees are payable on a per term/course basis. The fees are an estimate only based on the total units of credit of the program. The fees stated here are indicative only for 2020 and are subject to change on an annual basis.

**Fee-help**

### Scholarships

Further information about scholarships available to eligible students may be found at the UNSW Sydney Scholarships Home Page.

[Scholarships.unsw.edu.au](http://scholarships.unsw.edu.au)
KEY DATES FOR 2020

Term 1 2020: 17 Feb – 16 May 2020
Term 1 begins 17 February
Term 1 fee payment deadline end week 1
Term 1 census date – discontinuation without failure/financial penalty 15 March

Term 2 2020: 1 Jun – 29 Aug 2020
Term 2 begins 1 Jun
Term 2 fee payment deadline end week 1
Term 2 census date – discontinuation without failure/financial penalty 28 Jun

Term 3 2020: 14 Sep – 12 Dec 2020
Term 3 begins 14 Sep
Term 3 fee payment deadline end week 1
Term 3 census date – discontinuation without failure/financial penalty 11 Oct

“My role is about communicating pharmaceutical medicine. To have an understanding and appreciation about pharmaceutical medicine across the gamut, from drug discovery to delivery, has been imperative to me. So much of my job has been improved because of this program.”

MATTHEW BRITLAND
Senior Medical Manager