Pharmacy

postgraduate degrees by coursework

UTAS

FACULTY OF HEALTH SCIENCE

Pharmacology: drug action, drug disposition, therapeutic applications, development and evaluation of new drugs.

Medicinal Chemistry: the relationship between chemical structure and biological activity.

Clinical Pharmacokinetics: formulation factors and therapeutic activity; route of administration and bioavailability; developments in drug delivery and biotechnology; drug dosage requirements; therapeutic drug monitoring; drug interactions; extremes of age, renal disease, pharmacogenomics.

Toxicology: general principles of toxicology, mechanisms of toxicity, systematic toxicology and toxic agents.

Research in Pharmaceutical Science *GradDipPharmSc*: drug use review and/or literature survey, research design and report writing.

Research Thesis *MPharmSc:* Conduct independent research, including scientific and logical planning, implementation, interpretation and documentation of pharmaceutical-based research studies resulting in a thesis which is examined on completion of all coursework.

Please note: the award of Master of Clinical Pharmacy, Master of Pharmaceutical Science or Graduate Diploma of Pharmaceutical Science will not qualify a person for registration as a pharmacist.

CONTACT

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Email: Course.Info@admin.utas.edu.au

Further information regarding the School of Pharmacy and its research can be found at:

www.pharmacy.utas.edu.au

Further information regarding Coursework degrees can be found on the School's website, which includes links to the admission guide and on-line application forms:

www.pharmacy.utas.edu.au/courses

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UTAS FACULTY OF HEALTH SCIENCE

School of Pharmacy
CRICOS Provider Code 00586B

September 2007

Master of **Clinical Pharmacy**
Master of **Pharmaceutical Science**
Graduate Diploma of **Pharmaceutical Science**

www.pharmacy.utas.edu.au

UNIVERSITY OF TASMANIA




MASTER OF **CLINICAL PHARMACY**

Master of Clinical Pharmacy (MClinPharm) offers a flexible online postgraduate education program for pharmacists registered in any State or Territory of Australia, or registered to practise pharmacy in another country.

WHO WOULD BE INTERESTED?

Online delivery allows pharmacists who are unable to attend lectures or to undertake postgraduate study on-campus.

The MClinPharm has been designed for registered pharmacists who wish to develop clinical skills and gain a postgraduate qualification in pharmacy, particularly for those pharmacists who would like to offer pharmaceutical care or become accredited or better skilled to perform medication reviews in patients' homes and residential care facilities.

OBJECTIVES OF THE MClinPharm

To develop the knowledge and skills of registered pharmacists leading to:

- a good understanding of the clinical features and therapeutic management of specific diseases;
- an ability to retrieve, interpret and apply published literature relating to pharmacy practice;
- the skills necessary to perform and report research projects relating to pharmacy practice; and
- good communication skills, to effectively communicate with other health professionals and patients.

The MClinPharm will enhance the role of the pharmacist as a member of the health care team.

COURSE STRUCTURE

The MClinPharm concentrates on clinical pharmacy/clinical pharmacology and therapeutics, and includes a research project in the area of pharmacy practice or clinical pharmacy and the submission of a thesis. The program is 18 months full-time, part-time is also available.

The emphasis is on a case-oriented learning approach to clinical pharmacology and therapeutics, with the objective of improving the problem-solving skills of pharmacists and to develop their ability to contribute to the quality use of medications. Core and elective advanced pharmacotherapeutic units include the following topics:

Cardiology: hypertension, cardiac failure, angina, acute myocardial infarction, haemostasis and thrombosis;

Respiratory Medicine: asthma, chronic obstructive airways disease, cystic fibrosis;

Infectious Diseases & Oncology/Palliative Care: septicaemia, urinary tract infections, respiratory infections, oncology and palliative care;

Geriatric Medicine: issues with medication use in the elderly

Central Nervous System: analgesia, anxiety, insomnia, depression, psychoses, Parkinson's disease, epilepsy;

Alimentary Tract: peptic ulcer, inflammatory bowel diseases, diarrhoea, constipation;

Endocrinology: thyroid disorders, diabetes mellitus.

Research Methodology, Clinical Trials and Research Thesis: Students will be required to identify a suitable research topic, gather any relevant background literature, develop the research protocol and present it, if necessary, to an appropriate ethics committee, collect and analyse data, resulting in a thesis (62.5% of the degree) which is examined on completion of all coursework.

MASTER **AND** *GRADUATE DIPLOMA OF* **PHARMACEUTICAL SCIENCE**

Graduates in pharmacy, science or an equivalent science-based degree are considered for entry into either the Master of Pharmaceutical Science (MPharmSc) or Graduate Diploma (GradDipPharmSc). Applicants must have a credit average in their final two years of study or a minimum of three years postgraduate experience.

WHO WOULD BE INTERESTED?

The MPharmSc and GradDipPharmSc are designed for graduates who are interested in enhancing career options in the international biopharmaceutical and pharmaceutical industry (in particular manufacturing, research, quality control and marketing of pharmaceuticals), and employment in medical research institutes, hospitals and associated biomedical research laboratories, universities, government research laboratories, and government regulatory agencies.

OBJECTIVES OF THE MPharmSc OR GradDipPharmSc

To equip non-pharmacy graduate students with the fundamental knowledge and skills to enhance career opportunities within the pharmaceutical or biotechnology industries and for pharmacy graduates interested in this area to develop the skills necessary to perform and report research projects relating to this area.

COURSE STRUCTURE

MPharmSc: 18 months, GradDipPharmSc 12 months. Both courses are available part-time. Teaching is primarily based on existing pharmacy undergraduate units and, for the MPharmSc, a research thesis. Units covered are:

Pharmaceutical Science: physicochemical factors, solubility, partitioning, surface activity (including emulsification and solubilisation), decomposition kinetics, adsorption, rheology, micromiretics, and the application of these areas in the design and use of oral and non-oral drug delivery systems;

for full course details visit www.pharmacy.utas.edu.au