Health and Science Schools

Electronic Postgraduate Handbook 2012

University of Western Sydney

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UWS reserves the right to discontinue or vary its units, courses and announcements at any time without notice.

Information contained in this electronic handbook is correct at the time of production (August 2012), unless otherwise noted.

CRICOS Provider Code 00917K

In accordance with the Education Services for Overseas Students (ESOS) Act 2000, the University of Western Sydney (UWS) is registered on the Commonwealth Register of Institutions and Courses for Overseas Students (CRICOS), Provider Code 00917K.

Overseas students studying in Australia must comply with the requirements of the ESOS Act and the National Code. They should consult the Federal Government's Australian Educational International webpage for the description of the ESOS legislation and other relevant information. UWS International Postgraduate and Undergraduate Prospectuses and other promotional material specifically prepared for overseas students also provide information about CRICOS registered courses and conditions relating to study in Australia.

About the Health and Science Schools Electronic Postgraduate Handbook

Sessions and dates

There are two main sessions in 2012: Autumn and Spring. Weeks shown in the dateline refer to the session weeks for these main sessions.

The dateline is available at: http://www.uws.edu.au/students/stuadmin/dateline.

Unit outlines

Brief outlines of all UWS postgraduate units listed in the course section are given in the second half of this electronic handbook.

The unit outlines give a brief overview of each unit. For some units this information is not available. Please check the UWS website for more recent information. For more information – details of textbooks, assessment methods, tutorial, group work and practical requirements – contact the unit coordinator.

More information on unit offerings can be found at: http://handbook.uws.edu.au/hbook/UNIT_SEARCH.ASP.

Unit not listed?

If the unit you are looking for is not in the alphabetical units section, consult your course coordinator for details or check the unit search web page for updated details on all units offered in 2012 at: http://handbook.uws.edu.au/hbook/UNIT_SEARCH.ASP.

Prerequisites, co-requisites and assumed knowledge

Students wishing to enrol in a unit for which they do not have the prerequisites or assumed knowledge are advised to discuss their proposed enrolment with an academic adviser.

Where it is necessary to limit the number of students who can enrol in a unit through shortage of space, equipment, library resources, and so on, or to meet safety requirements, preference will be given to students who have completed the unit recommended sequence in the course.

Academic credit

In most courses, academic credit will be granted for previous studies. For example, UWS has a number of agreements with TAFE to grant credit for successfully completed TAFE studies. Seek advice about credit prior to, or at enrolment.

How to use this electronic book

The first part of this electronic book contains information about current postgraduate courses offered by the Schools of Computing, Engineering & Mathematics, Medicine, Nursing & Midwifery and Science & Health. The next part contains details on current postgraduate unit sets in these courses, and the final part has details of all units within the courses.

The courses are arranged mainly alphabetically. If you know the course code, but not the name, consult the COURSE CODE INDEX.

The units are arranged alphabetically. If you know the code, but not the name, consult the UNIT CODE INDEX at the back of the electronic book.

Check website for updates

Every effort is taken to ensure that the information contained in this electronic book is correct at time of production. The latest information on course and unit offerings can be found at: http://handbook.uws.edu.au/hbook/

Contents

SCHOOL OF MEDICINE

Master of Surgery in Advanced Gynaecological Surgery

4690.1

This course is available to Advanced Trainees in Obstetrics and Gynaecology who are undertaking a Fellowship in Minimally Invasive Gynaecological Surgery Sydney West Advanced Pelvic Surgery Unit based at Blacktown Hospital. Students will undertake a program of theoretical and practical activities that will result in their graduation with advanced skills in laparoscopic pelvic surgery. The course will be undertaken while working at SWAPS and supervised by staff at Blacktown Hospital.

Study Mode
Two years part-time.

Location

Campus	Attendance	Mode
Campbelltown Campus	Part Time	External

Accreditation
While this program does not require accreditation the clinical component is accredited for advanced trainees in Obstetrics and Gynaecology by the RANZCOG (The Royal Australian and New Zealand College of Obstetricians and Gynaecologists). RANZCOG supports the program.

Admission
All students must be advanced Obstetric & Gynaecology trainees undertaking a Fellowship in Minimally Invasive Gynaecological Surgery at Sydney West Advanced Pelvic Surgery Unit or other accredited site.

Admission to this course is by invitation after appointment to the fellowship position in the hospital or other accredited site.

Special Requirements
All students must be registered medical practitioners undertaking a Fellowship in Minimally Invasive Gynaecological Surgery at SWAPS.

Course Structure

Recommended Sequence
Each student will undertake eight units of study. Two units will be practicum and the student will undertake six of eight additional units.

The practicum units are:

400993.1 Clinical Minimally Invasive Gynaecological Surgery 1

Clinically Minimally Invasive Gynaecological Surgery 2

The additional units are

400996.1 Power Modalities
400995.1 Port Entry
400994.1 Laparoscopic Hysterectomy

Endometriosis
Ergonomics
Laparoscopic adnexal surgery
Pelvic anatomy
Pelvic floor function and dysfunction

Graduate Certificate in Allergic Diseases

4689.1

This course is designed for medical practitioners, particularly general practitioners and general paediatricians, who want to improve their care of patients with allergic diseases. Students must be registered medical practitioners. It combines an introduction to the scientific basis of allergic diseases and clinical aspects of allergy. Students will complete an online scientific program and attend a regional specialist Immunology Clinic, over a total period of two years.

Study Mode
Two years part-time.

Location

Campus	Attendance	Mode
Campbelltown Campus	Part Time	External

Admission
Applicants for this course must be qualified and registered medical practitioners (doctors).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

Special Requirements
Students must be registered medical practitioners, in clinical practice, and be able to access a regional specialist Immunology/Allergy clinic.

Course Structure
Qualification for this award requires the successful completion of 40 credit points including the units listed in the recommended sequence below.

Part-time (Start year intake)

Year 1

400988.1 Allergic Sciences 1
400989.1 Allergic Sciences 2

Year 2

400990.1 Clinical Allergy 1
400991.1 Clinical Allergy 2

SCHOOL OF NURSING AND MIDWIFERY

Master of Child and Family Health (Karitane)

4682.1

The aim of the Master of Child and Family Health (Karitane) is to provide Registered Nurses and Registered Midwives with theoretical knowledge and associated skills that prepare them to work autonomously and across a variety of clinical settings with children and families. Graduates will be able to apply advanced nursing concepts and analysis and lead nursing practice to promote optimal health outcomes for children and families. This will involve among other things, design, implementation and evaluation of advanced clinical nursing care systems, analysis and synthesis of nursing concepts leading to a basis for advanced nursing practice and the facilitation of change.

Study Mode
Two years part-time.

Location

Campus	Attendance	Mode
Hawkesbury Campus	Part Time	Multi Modal

Admission
Applicants must have:

Registered Nurse or Midwife (currently registered with the Australian Health Practitioner Regulation Agency - Nursing and Midwifery), or eligibility for same

and

Successful completion of a Bachelor of Nursing, Bachelor of Midwifery or Bachelor of Health Science (Nursing)

or

Five years full-time equivalent recent (within the last 10 years) professional working experience

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Special Requirements
Special requirements are those stipulated by the NSW Health Department and UWS. These include: Prohibited Employment Declaration (PED); NSW Health Clinical Placement Authority (National Police Check); Adult Health Immunisation.

Course Structure
Qualification for this award requires the successful completion of 80 credit points including the units listed in the recommended sequence below.

Recommended Sequence

Part-time

Year 1

Autumn session

400971.1	Child & Family Health: Professional Practice and Frameworks
400972.1	Child & Family Health Practice: Supporting Growth and Development

Spring session

400830.2	Clinical Practice: Infant and Child Nutrition and Feeding
400831.2	Healthy Families and Communities

Year 2

Autumn session

400832.1	Partnership in Practice
400833.2	Perinatal Mental Health

Spring session

400206.2	Evidence-based Nursing

And one elective

Recommended electives

400834.1	Advanced practice: Infant and Child feeding and Nutrition
400835.1	Infant Mental Health

Graduate Certificate in Child and Family Health (Karitane) (exit only)

4683.1

The Graduate Certificate in Child & Family Health (Karitane) is an exit point for 4682 Master of Child and Family Health (Karitane).

The aim of the Master of Child and Family Health (Karitane) is to provide Registered Nurses and Registered Midwives with theoretical knowledge and associated skills that prepare them to work autonomously and across a variety of clinical settings with children and families. Graduates will be able to apply advanced nursing concepts and analysis and lead nursing practice to promote optimal health outcomes for children and families. This will involve among other things, design, implementation and evaluation of advanced clinical nursing care systems, analysis and synthesis of

nursing concepts leading to a basis for advanced nursing practice and the facilitation of change.

Location

Campus	Attendance	Mode
Hawkesbury Campus	Part Time	Multi Modal

Course Structure

Qualification for this award requires the successful completion of 40 credit points including the units listed in the recommended sequence below.

Recommended Sequence

Part-time

Year 1

Autumn session

400971.1	Child & Family Health: Professional Practice and Frameworks
400972.1	Child & Family Health Practice: Supporting Growth and Development

Spring session

400830.2	Clinical Practice: Infant and Child Nutrition and Feeding
400831.2	Healthy Families and Communities

Master of Mental Health Nursing (Nurse Practitioner)

4673.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2011 or later.

Nurse Practitioners are expected to be clinical leaders who work autonomously from a sound evidence base, instigate diagnostic investigations, prescribe medication within an approved formulary, and refer judiciously. Students of this course undertake units of study that will prepare them for the role of Nurse Practitioner in the specialist area of mental health. This study program incorporates areas of advanced health assessment, clinical leadership, evidence-based nursing, diagnostic skills, therapeutic management, psychopharmacology, evaluation and collaboration in care. Students also have the opportunity to complete specialist electives to suit their particular practice setting.

Study Mode

Four years part-time.

Location

Campus	Attendance	Mode
Parramatta Campus	Part Time	External

Accreditation

The Master of Mental Health Nursing (Nurse Practitioner) was initially accredited by the Nurses and Midwives Board (NMB) of New South Wales. From 1st July 2010 the approval, recognition and accreditation of courses has been transferred to the Australian Nursing and Midwifery Council (ANMC). Course accreditation can be checked on their website. http://www.nursingmidwiferyboard.gov.au/Accreditation.aspx.

Admission

All applicants must meet the following criteria to be eligible for entry:

- Registered Nurse or Midwife (currently registered with the Australian Health Practitioner Regulation Agency - Nursing and Midwifery)
- An undergraduate degree in Nursing or Health Science (Nursing) or minimum of five years full-time equivalent work experience in mental health nursing and graduate certificate in mental health nursing and
- three years full-time equivalent work experience as a registered nurse, of which 12 months full-time equivalent is in an advanced clinical role in mental health

Successful applicants will need to arrange the following:

- Submission to the University of evidence of current clinical practice in an advanced clinical role in mental health, confirmed via 2 referee reports and
- Access to complete clinical experience in a mental health setting (as approved by the School or Nursing and Midwifery) and
- Contract with a University approved primary supervisor/mentor/assessor (PSMA) to meet the requirements of the course.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Course Structure

Qualification for this award requires the successful completion of 160 credit points which include the units listed in the recommended sequence below. Students may exit with a Graduate Diploma on completion of the relevant units.

Exit Award

Recommended Sequence

Year 1

Autumn session

400220.2 Contemporary Professional Practice in Mental Health Nursing
400206.2 Evidence-based Nursing

Spring session

400235.2 Leadership in Clinical Practice

And one elective (for Nurse Practitioner role development)

Year 2

Autumn session

400238.3 Policy, Power and Politics in Health Care Provision

And one elective (for Nurse Practitioner role development)

Spring session

400777.3 Leadership for Quality and Safety in Health Care
400957.3 Biological Considerations in Mental Health and Mental Illness for Advanced Practice

Students may exit with the Master of Mental Health Nursing at this point.

Year 3

Autumn session

400228.3 Assessment for Advanced Practice Mental Health Nurses

And one elective (for Speciality Mental Health)

Spring session

400858.3 Psychopharmacology For Advanced Practice Mental Health Nurses

And one elective (for Speciality Mental Health)

Year 4

Autumn session

400859.2 Advanced Mental Health Nursing Clinical Practice 1

Spring session

400860.2 Advanced Mental Health Nursing Clinical Practice 2

Master of Mental Health Nursing (exit only)

4688.1

This is an exit course only. Applicants apply to 4673 Master of Mental Health Nursing (Nurse Practitioner) and exit with the Master of Mental Health Nursing award.

Study Mode
Two years part-time.

Location

Campus	Attendance	Mode
Parramatta Campus	Part Time	External

Course Structure
Qualification for this award requires the successful completion of 80 credit points which include the units listed in the recommended sequence below.

Recommended Sequence

Year 1

Autumn session

400220.2 Contemporary Professional Practice in Mental Health Nursing
400206.2 Evidence-based Nursing

Spring session

400235.2 Leadership in Clinical Practice

And one elective

Year 2

Autumn session

400238.3 Policy, Power and Politics in Health Care Provision

And one elective

Spring session

400777.3 Leadership for Quality and Safety in Health Care
400957.3 Biological Considerations in Mental Health and Mental Illness for Advanced Practice

Graduate Diploma in Nursing (Mental Health)

4654.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2011 or later.

The aim of the Graduate Diploma in Nursing (Mental Health) is to produce a graduate who can practise mental health nursing skilfully and within ethical and legal boundaries, and who can think abstractly and critically. The course encourages critical examination of issues such as mental health nursing knowledge, the evidence-based perspective of practice, the measurement of outcomes and the consumer movement. Research training and the study of the relationship between research, knowledge and practice is a key component of the course. Issues include learning how to use the self therapeutically, relationships with clients, understanding the experience of people who have mental illnesses, disorders and crises. Collaborative relationships and partnerships between nurses, multidisciplinary colleagues and stakeholders in the mental health care service are endorsed as a key value within the course. Students are challenged to conceptualise and articulate definitions of the unique role of mental health nursing, to ask difficult questions and to seek their answers.

Study Mode
Two years part-time.

Location

Campus	Attendance	Mode
Parramatta Campus	Part Time	External

Admission
Registered Nurse or Midwife (currently registered with the Australian Health Practitioner Regulation Agency - Nursing and Midwifery) and currently working in regular full-time, part-time or casual employment in a recognised mental health setting

and

Successful completion of a Bachelor of Nursing, Bachelor of Midwifery or Bachelor of Health Science (Nursing)

or

Five years full-time equivalent recent (within the last 10 years) professional nursing working experience.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Course Structure
Qualification for this award requires the successful completion of 60 credit points as per the recommended sequence below.

Recommended Sequence

Part-time

Year 1

Autumn session

400217.2	Mental Health Assessment and Application
400218.2	Mental Health Nursing Practice 1

Spring session

400219.3	Mental Health Nursing Practice 2

And one elective

Students may exit with a Graduate Certificate in Nursing (Mental Health) at this point

Year 2

Autumn session

400220.2	Contemporary Professional Practice in Mental Health Nursing

Spring session

400957.3	Biological Considerations in Mental Health and Mental Illness for Advanced Practice

Graduate Certificate in Nursing (Mental Health) (exit only)

4535.3

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course was Autumn 2011 or later.

This version of the Graduate Certificate in Nursing (Mental Health) is an exit point only from the Graduate Diploma in Nursing (Mental Health)

Study Mode
One year part-time (this is an exit award only).

Location

Campus	Attendance	Mode
Parramatta Campus	Part Time	External

Master of Nursing

4686.1

The aim of the Master of Nursing is to provide Registered Nurses with the theoretical knowledge and critical thinking skills to prepare them for advanced practice in the clinical setting. Graduates will be able to synthesise and apply advanced nursing concepts in order to lead nursing practice and optimise health outcomes.

In addition to the Master of Nursing, students can choose to complete one of the following specialisations:

Study Mode
One year full time or two years part-time

Location

Campus	Attendance	Mode
HONG KONG CAMPUS	Part Time	Internal
Parramatta Campus	Full Time	External
Parramatta Campus	Part Time	External

Advanced Standing
Students who hold a post graduate qualification in nursing or health-related field may apply for block credit for advanced standing to the equivalent of 20 credit points.

Admission
Applicants must have:

Registered Nurse (currently registered with the Australian Health Practitioner Regulation Agency - Nursing and Midwifery), or eligibility for same

and

An undergraduate degree in Nursing or Health Science (Nursing) or a minimum of five years full-time equivalent work experience in nursing within the last ten years

and

One year full-time equivalent work experience as a registered nurse within the last five years.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Course Structure

Master of Nursing (no specialisation)
Qualification for this award requires the successful completion of 80 credit points including the units listed in the recommended sequence below.

Recommended Sequence

Full-time

Year 1

Autumn session

400238.3 Policy, Power and Politics in Health Care Provision
400235.2 Leadership in Clinical Practice
400774.2 Perspectives on Nursing

And one elective

Spring session

400206.2 Evidence-based Nursing
400210.2 Health Promotion and the Nurse
400807.2 Transforming Nursing Practice

And one elective

Part-time

Year 1

Autumn session

400235.2 Leadership in Clinical Practice

And one elective

Spring session

400210.2 Health Promotion and the Nurse
400206.2 Evidence-based Nursing

Year 2

Autumn session

400238.3 Policy, Power and Politics in Health Care Provision
400774.2 Perspectives on Nursing

Spring session

400807.2 Transforming Nursing Practice

And one elective

Specialisations

ST4011.1 Clinical Teaching

The Clinical Teaching specialisation provides students with an opportunity to gain formal education in clinical teaching to either enhance their existing teaching experience or provide skill development in this area.

Graduates who complete the Clinical Teaching specialisation will be prepared to take on a leadership role in clinical teaching in the roles such as clinical nurse educator, nurse educator, clinical nurse specialist and undergraduate placement facilitator.

ST4012.1 Research

The Research specialisation provides students with foundation level research training that will support them to increase their involvement in research within the clinical setting or seek admission to a research higher degree.

Graduates who complete the Research specialisation will be prepared to function as an active member of a research team or seek admission to a higher degree research program.

Graduate Diploma in Nursing (exit only)

4687.1

The Graduate Diploma in Nursing is an exit award from the Master of Nursing.

Location

Campus	Attendance	Mode
HONG KONG CAMPUS	Part Time	Internal
Parramatta Campus	Full Time	External
Parramatta Campus	Part Time	External

Course Structure

Master of Nursing students may exit the program with a Graduate Diploma of Nursing.

To satisfy the requirements for the award of Graduate Diploma of Nursing, students will have to successfully complete the following three core units, plus a specialist core unit and two elective units.

400238.3 Policy, Power and Politics in Health Care Provision
400235.2 Leadership in Clinical Practice
400206.2 Evidence-based Nursing

Choose one of

400774.2 Perspectives on Nursing
400210.2 Health Promotion and the Nurse

And two electives

Master of Nursing (Clinical Leadership)

4645.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2010 or later.

This course aims to provide development opportunities for nursing and midwifery leaders (expert clinicians, nursing and midwifery managers and leaders at all levels of health care) to develop their leadership capacity in a manner that enables them to lead transformative change. The course provides a focus on the knowledge and behaviours required to be a successful leader in a changing health care environment. Key knowledge areas include evidence-based practice, politics and policy, quality, safety and clinical governance, information and communication technology, leadership and organisational capacity, resource management, health services research and evaluation. Opportunities will be provided to undertake in-depth study into aspects of clinical leadership that are relevant to their area of practice.

The Master of Nursing (Clinical Leadership) is also preparation for doctoral studies, and candidates who successfully complete the program will be eligible to apply for the doctoral program at UWS.

Study Mode

One year full time (on-campus) or two years part time (external).

Location

Campus	Attendance	Mode
Hong Kong Baptist University	Part Time	Internal
Parramatta Campus	Part Time	External
Parramatta Campus	Full Time	Internal

Admission

Applicants must have

Registered Nurse or Midwife (currently registered with the Australian Health Practitioner Regulation Agency - Nursing and Midwifery), or eligibility for same, or certificate of registration of nursing, within the last five years, in their own country

and

Bachelor of Nursing, Bachelor of Health Science (Nursing)

or

Five years full-time equivalent recent (within the last ten years) professional work experience in nursing/health care as a Registered nurse.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

International applicants must apply directly to the University of Western Sydney via UWS International.

International students applying to UWS through UWS International can find details of minimum English proficiency requirements and acceptable proof on the UWS International website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Course Structure

Qualification for this award requires the successful completion of 80 credit points which include the units listed in the recommended sequence below.

Full Time

Autumn

400235.2 Leadership in Clinical Practice
400238.3 Policy, Power and Politics in Health Care Provision

And two electives

Electives may be selected from any postgraduate UWS course

Spring

400778.2 Leadership and the Development of Organisational Capacity
400777.3 Leadership for Quality and Safety in Health Care

And two electives

Electives may be selected from any postgraduate UWS course

Part Time

Year 1

Autumn

400235.2 Leadership in Clinical Practice
400238.3 Policy, Power and Politics in Health Care Provision

Spring

400778.2 Leadership and the Development of Organisational Capacity

And one elective

Electives may be selected from any postgraduate UWS course

Year 2

Autumn

400777.3 Leadership for Quality and Safety in Health Care

And one elective

Electives may be selected from any postgraduate UWS course

Spring

And two electives

Electives may be selected from any postgraduate UWS course

Graduate Diploma

Students may elect to exit early with a Graduate Diploma in Nursing (Clinical Leadership) following successful completion of the four mandatory core units and two elective units.

Graduate Diploma in Nursing (Clinical Leadership) (exit only)

4644.1

This is an exit award only. The Graduate Diploma is a 60 Credit Point degree and it is completely embedded within the Master of Nursing (Clinical Leadership). Refer to the Masters course for full course structure.

Location

Campus	Attendance	Mode
Parramatta Campus	Part Time	External

Course Structure

Students may choose to exit the Master of Nursing (Clinical Leadership) after completing 60 Credit Points which includes the four mandatory core units and two elective units.

400235.2 Leadership in Clinical Practice
400238.3 Policy, Power and Politics in Health Care Provision
400778.2 Leadership and the Development of Organisational Capacity
400777.3 Leadership for Quality and Safety in Health Care

Graduate Diploma in Midwifery

4505.4

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2011 or later.

The Graduate Diploma in Midwifery is a year long course developed for registered nurses wishing to pursue a career in Midwifery.

The course is made up of theory and practice with an emphasis on the art and science of midwifery, health promotion, communication skills and continuity of care.

Students will gain essential clinical experience through paid employment in an affiliated maternity hospital for the duration of the course.

Study Mode

One year full-time.

Location

Campus	Attendance	Mode
Parramatta Campus	Full Time	Internal

Accreditation

The Graduate Diploma in Midwifery was initially accredited by the Nurses and Midwives Board (NMB) of New South Wales. From 1st July 2010 the approval, recognition and accreditation of courses has been transferred to the Australian Nursing and Midwifery Council (ANMC). Course accreditation can be checked on their website. http://www.nursingmidwiferyboard.gov.au/Accreditation.aspx

Admission

1. Registered Nurse (currently registered with the Australian Health Practitioner Regulation Agency - Nursing and Midwifery)

2. A clinical placement is required to be secured in an approved maternity hospital. The student is responsible for the application and securing of a position as a student midwife in one of the approved hospitals. Recruitment of

student midwives occurs during July through a centralised online process.

Applicants for clinical placements must be a registered nurse at the time of attending the interview.

Applications from Australian citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

Course Structure

Qualification for this award requires the successful completion of 80 credit points including the units listed in the recommended sequence below.

Recommended Sequence

Full-time - Start Year

Year 1

Quarter 1

400950.2 Introduction to Midwifery 1
400951.2 Introduction to Midwifery 2

Quarter 2

400953.2 Complex Midwifery 1
400954.2 Midwifery Knowledge and Practice 1

Quarter 3

400955.2 Complex Midwifery 2
400082.5 Essentials for Best Practice in Midwifery

Quarter 4

400956.2 Midwifery Knowledge and Practice 2

Full-time - Mid Year

Year 1

Quarter 3

400950.2 Introduction to Midwifery 1
400951.2 Introduction to Midwifery 2

Quarter 4

400953.2 Complex Midwifery 1
400954.2 Midwifery Knowledge and Practice 1

Year 2

Quarter 1

400955.2 Complex Midwifery 2
400082.5 Essentials for Best Practice in Midwifery

Quarter 2

400956.2 Midwifery Knowledge and Practice 2

Master of Primary Health Care

4569.3

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course was 2009 or later.

This course aims to provide the opportunity for health, and other professionals with primary health care responsibilities to gain knowledge and understanding of primary health care that will enable leadership in this field. The course provides a focus on the knowledge and behaviour required to be a primary heath care provider in a changing community environment. Key knowledge areas include service delivery applying primary health care principles, health promotion, epidemiology, socio-political and health issues for aged care, mental health in communities, collaborative inquiry, supporting individuals and communities in crisis, leadership and change. Opportunities will be provided for students to undertake in-depth study into aspects of primary health care that are relevant to their specific areas of work/practice.

Study Mode

Two years part-time in distance education mode. This course is offered on campus in Hong Kong only.

Location

Campus	Attendance	Mode
Hawkesbury Campus	Part Time	External
Hong Kong Baptist University	Part Time	Internal

Admission

Applicants must have successfully completed an undergraduate degree in biological sciences: human biological sciences, anatomy and physiology, chemistry, physics, biology, natural science, microbiology, medicine, dentistry, pharmacy, human science, naturopathy, complementary medicine.

or

A degree in arts/behavioural sciences - human behavioural and social sciences, psychology, sociology, human communications, human behaviour.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills

Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Course Structure

Qualification for this award requires the successful completion of 80 credit points, including the units listed in the recommended sequence below.

Recommended sequence

Part-time (Distance Education Mode)

Year 1

Autumn session

400412.2	Primary Health Care and its Applications
400836.1	Health Promotion: A Primary Health Care Approach

Spring session

400856.1	Approaches to Epidemiology
400838.1	Supporting Individuals and Communities in Crisis

Year 2

Autumn session

400773.3	Mental Health for Communities
400837.2	Health and Socio-political Issues in Aged Care

Spring session

400414.2	Leadership and Change
400839.1	Collaborative Inquiry for Primary Health Care Action

Graduate Diploma

Students may elect to exit the program with a Graduate Diploma in Primary Health Care following successful completion of the following units

400412.2	Primary Health Care and its Applications
400836.1	Health Promotion: A Primary Health Care Approach
400856.1	Approaches to Epidemiology
400838.1	Supporting Individuals and Communities in Crisis
400773.3	Mental Health for Communities
400837.2	Health and Socio-political Issues in Aged Care

Graduate Diploma in Primary Health Care

4570.3

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course was 2009 or later.

This course aims to provide the opportunity for health, and other professionals with primary health care responsibilities to gain knowledge and understanding of primary health care that will enable leadership in this field. The course provides a focus on the knowledge and behaviour required to be a primary heath care provider in a changing community environment. Key knowledge areas include service delivery applying primary health care principles, health promotion, epidemiology, socio-political and health issues for aged care, mental health in communities, collaborative inquiry, supporting individuals and communities in crisis, leadership and change. Opportunities will be provided for students to undertake in-depth study into aspects of primary health care that are relevant to their specific areas of work/practice.

Study Mode

One and a half years part-time in distance education mode. This course is offered on campus in Hong Kong only.

Location

Campus	Attendance	Mode
Hawkesbury Campus	Part Time	External
Hong Kong Baptist University	Part Time	Internal

Admission

Applicants must have successfully completed an undergraduate degree in biological sciences: human biological sciences, anatomy and physiology, chemistry, physics, biology, natural science, microbiology, medicine, dentistry, pharmacy, human science, naturopathy, complimentary medicine

or

A degree in arts/behavioural sciences - human behioural and social sciences, psychology, sociology, human communictions, human behaviour

or

Three years full-time equivalent work experience in the health sector.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Course Structure

Qualification for this award requires the successful completion of 60 credit points, including the units listed in the recommended sequence below.

Recommended sequence

Part-time

Year 1

Autumn session

400412.2 Primary Health Care and its Applications
400836.1 Health Promotion: A Primary Health Care Approach

Spring session

400856.1 Approaches to Epidemiology
400838.1 Supporting Individuals and Communities in Crisis

Year 2

Autumn session

400773.3 Mental Health for Communities
400837.2 Health and Socio-political Issues in Aged Care

Unit Sets

Specialisation - Clinical Teaching

ST4011.1

The Clinical Teaching specialisation provides students with an opportunity to gain formal education in clinical teaching to either enhance their existing teaching experience or provide skill development in this area. Graduates who complete the Clinical Teaching specialisation will be prepared to take on a leadership role in clinical teaching in the roles such as clinical nurse educator, nurse educator, clinical nurse specialist and undergraduate placement facilitator.

Location

Campus	Mode
Parramatta Campus	Internal

Unit Set Structure

Students must complete 80 credit points including the units listed in the recommended sequence below.

Recommended Sequence

Full-time

Year 1

Autumn session

400235.2 Leadership in Clinical Practice
400238.3 Policy, Power and Politics in Health Care Provision
400974.1 Clinical Teaching for Learning

And one elective

Spring session

400206.2 Evidence-based Nursing
400973.1 Clinical Teaching and Professional Development
400807.2 Transforming Nursing Practice

And one elective

Part-time

Year 1

Autumn session

400235.2 Leadership in Clinical Practice

And one elective

Spring session

400973.1 Clinical Teaching and Professional Development
400206.2 Evidence-based Nursing

Year 2

Autumn session

400238.3 Policy, Power and Politics in Health Care Provision
400974.1 Clinical Teaching for Learning

Spring session

400807.2 Transforming Nursing Practice

And one elective

Specialisation - Research

ST4012.1

The Research specialisation provides students with foundation level research training that will support them to increase their involvement in research within the clinical setting or seek admission to a research higher degree. Graduates who complete the Research specialisation will be prepared to function as an active member of a research team or seek admission to a higher degree research program.

Location

Campus	Mode
Parramatta Campus	External

Unit Set Structure

Students must complete 80 credit points including the units listed in the recommended sequence below.

Recommended Sequence

Full-time

Year 1

Autumn session

400235.2 Leadership in Clinical Practice
400238.3 Policy, Power and Politics in Health Care Provision
400200.2 Applied Nursing Research

And one elective

Spring session

400975.1 Ethics in Health Research
400206.2 Evidence-based Nursing
400807.2 Transforming Nursing Practice

And one elective

Part-time

Year 1

Autumn session

400235.2 Leadership in Clinical Practice

And one elective

Spring session

400975.1 Ethics in Health Research
400206.2 Evidence-based Nursing

Year 2

Autumn session

400238.3 Policy, Power and Politics in Health Care Provision
400200.2 Applied Nursing Research

Spring session

400807.2 Transforming Nursing Practice

And one elective

SCHOOL OF COMPUTING, ENGINEERING AND MATHEMATICS

Master of Building Surveying

2558.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2010 or later.

The course is designed to provide professionals with the skills and knowledge to assess, evaluate and recommend building solutions. The course caters for the growing need to understand performance based building code and fire safety engineering principles, is relevant to professionals developing alternative solutions using the Building Code of Australia and the Fire Engineering Guidelines.

Study Mode

Two years part-time.

Location

Campus	Attendance	Mode
Penrith Campus	Part Time	External

Admission

Applicants must have an undergraduate degree in building, building surveying, construction, engineering or architecture.

Applications from Australian citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Course Structure

Qualification for this award requires the successful completion of 80 credit points as per the recommended sequence below.

Semester 1

300719.2	Fire and Building Regulations
300712.2	Fire Technology Principles

Semester 2

300714.2	Fire Engineering Principles
300708.2	Planning and Development Control

Semester 3

300713.2	Building Engineering
300716.2	Building Studies

Semester 4

300711.2	Building Fire Services
300597.2	Master Project 1

Graduate Diploma in Building Surveying

3652.1

The course is designed to provide professionals with the skills and knowledge to assess evaluate and recommend building solutions. The course caters for the growing need to understand performance based building code and fire safety engineering principles, is relevant to professionals developing alternative solutions using the Building Code of Australia and the Fire Engineering Guidelines.

Study Mode

One and a half years part-time.

Location

Campus	Attendance	Mode
Penrith Campus	Part Time	External

Admission

Applicants must have an undergraduate degree in building, building surveying, construction, engineering or architecture

or

An AQF Diploma in building, building surveying, construction, engineering or architecture plus at least 4 years professional work experience in the building industry, architecture or local government.

Applications from Australian citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Course Structure

Qualification for this award requires the successful completion of 60 credit points as per the recommended sequence below.

Semester 1

300719.2	Fire and Building Regulations
300712.2	Fire Technology Principles

Semester 2

300714.2	Fire Engineering Principles
300708.2	Planning and Development Control

Semester 3

300713.2	Building Engineering
300716.2	Building Studies

Graduate Diploma in Bushfire Protection

3650.1

This course caters for the need to understand bushfires and their impact on the natural and built environment. The course's aims coincide with that of the Federal Bushfire Cooperative Research Centre, which are "to develop a comprehensive and overarching understanding of the behaviour and danger of bushfires, given local differences in vegetation, land management and weather". Students will acquire knowledge and understanding of the relevant building regulations for design and development practice.

Graduates will be able to conduct risk assessment and provide advice on developments in bushfire prone areas, develop alternative engineering design solutions based on their understanding of bushfires and their impact on the natural and built environment. The graduate will also be able to provide advice with respect to bushfire fighting techniques and emergency management.

Study Mode
One and a half years part-time.

Location

Campus	Attendance	Mode
Penrith Campus	Part Time	External

Accreditation
The course is recognised by Fire Protection Association Australia as a qualification for accreditation under the Bushfire Planning and Design scheme.

Admission
Applicants must have an undergraduate degree in engineering, building, building surveying, architecture, science or environmental studies

or

An AQF Diploma in engineering, building, building surveying, architecture, science or environmental studies plus four years professional work experience in engineering, the building industry, architecture, local government, environmental management or bushfire services.

Applications from Australian citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Course Structure
Qualification for this award requires the successful completion of 60 credit points as per the recommended sequence below.

Semester 1

200457.3	Bushfire Behaviour
200500.2	Bushfire Fighting

Semester 2

200458.2	Building in Bushfire Prone Areas
300708.2	Planning and Development Control

Semester 3

200459.2	Emergency Management for Bushfire Prone Areas
200499.2	Alternative Solutions for Bushfire Prone Areas

Graduate Certificate in Bushfire Protection

3651.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2011 or later.

This course is an early exit from the Graduate Diploma in Bushfire Protection.

This course caters for the need to understand bushfires and their impact on the natural and built environment. The course's aims coincide with that of the Federal Bushfire Cooperative Research Centre, which are "to develop a comprehensive and overarching understanding of the behaviour and danger of bushfires, given local differences in vegetation, land management and weather". Students will acquire knowledge and understanding of the relevant building regulations for design and development practice. Graduates will be able to provide advice on developments in bushfire prone areas, assess building designs against the deemed-to-satisfy provisions of the building code and standards. They will also be able to provide advice with respect to bushfire fighting techniques.

Study Mode
One year part-time.

Location

Campus	Attendance	Mode
Penrith Campus	Part Time	External

Accreditation

The course is recognised by Fire Protection Association Australia as a qualification for accreditation under the Bushfire Planning and Design scheme.

Admission

Applicants must have an undergraduate degree in engineering, building, building surveying, construction, architecture, science or environmental studies;

or

An AQF Diploma in engineering, building, building surveying, construction, architecture, science or environmental studies plus at least 2 years professional work experience in building industry in the field of engineering, building surveying, construction, architecture, local government, environmental management or fire services;

or

An AQF Certificate III in engineering, building, building surveying, construction, architecture, science, environmental studies or public safety (firefighting) plus at least five years professional work experience in the building industry in the fields of engineering, building surveying, construction, architecture, local government or fire services.

Applications from Australian citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Course Structure

Qualification for this award requires the successful completion of 40 credit points as per the recommended sequence below.

Semester 1

200457.3	Bushfire Behaviour
200500.2	Bushfire Fighting

Semester 2

200458.2	Building in Bushfire Prone Areas
300708.2	Planning and Development Control

Master of Engineering

3623.3

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2012 or later.

The Master of Engineering enables professionals in Engineering and Industrial Design and recent graduates to adapt to a dynamically developing and changing technological environment through the upgrading of their skills and knowledge. The course provides students with training opportunities to foster a culture of life-long learning. Graduates of the course will have a firm foundation to maintain their skills as their specialised professional field evolves.

Study Mode

One year full time or two years part-time.

Location

Campus	Attendance	Mode
Penrith Campus	Full Time	Internal
Penrith Campus	Part Time	Internal

Admission

Students must possess an undergraduate degree in Engineering

or

An undergraduate degree in an engineering related field and one year full time equivalent work experience in engineering.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admission Centre (UAC).

International applicants must apply directly to the University of Western Sydney via UWS International.

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Details of minimum English proficiency requirements and acceptable proof can be found on the Universities Admissions Centre (UAC) website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Course Structure

Qualification for this award requires the successful completion of 80 credit points including the units listed below.

Students who wish to complete a Master of Engineering must complete the four core units and four specialisation units, which may be chosen in any combination from the specialisation lists below.

Students who wish to graduate with one of the following specialisations must complete the four core units and four specialisation units from one of the disciplines below.

ST3018.1	Civil
ST3019.1	Environmental
ST3021.1	Computer
ST3022.1	Electrical
ST3023.1	Telecommunication
ST3024.1	Mechatronic

Core Units

300513.2 Engineering Software Applications
300206.2 Sustainable Design
300597.2 Master Project 1
300598.2 Master Project 2

And four 10 credit point Engineering Specialist Alternate units

Engineering Specialist alternate units

Civil

300605.2 Advanced Structural Design
300594.3 Advanced Structural Analysis
300595.2 Advanced Water Engineering
300604.2 Advanced Geotechnical Engineering

Environmental

MI807A.2 Water and Wastewater Microbiology
300595.2 Advanced Water Engineering
300604.2 Advanced Geotechnical Engineering
300602.2 Advanced Environmental Engineering

Computer

300603.2 Advanced Control Systems
300173.2 Advanced Data Networks
300174.2 Advanced Digital Systems
300196.2 Personal Communication Systems
300193.2 Multimedia Engineering
300515.2 Instrumentation and Measurement (PG)

Electrical

300603.2 Advanced Control Systems
300173.2 Advanced Data Networks
300197.2 Power System Planning and Economics
300596.2 Advanced Signal Processing
300601.2 Advanced Electrical Machines and Drives
300515.2 Instrumentation and Measurement (PG)

Telecommunication

300173.2 Advanced Data Networks
300174.2 Advanced Digital Systems
300193.2 Multimedia Engineering
300196.2 Personal Communication Systems
300596.2 Advanced Signal Processing
300515.2 Instrumentation and Measurement (PG)

Mechatronic

300599.2 Advanced Robotics
300600.2 Mechatronic System Design
300603.2 Advanced Control Systems
300601.2 Advanced Electrical Machines and Drives

Graduate Diploma in Engineering (exit only)

3624.3

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2012 or later.

This is an exit award only. Students may choose to exit the Master of Engineering after completing 60 Credit Points with the degree of Graduate Diploma in Engineering.

The Graduate Diploma in Engineering provides an opportunity to professionals in Engineering and Industrial Design and recent graduates to adapt to a dynamically developing and changing technological environment through the upgrading of their skills and knowledge. The course provides students with opportunities to foster a culture of life-long learning. Graduates of the course will have a foundation to maintain their skills as their specialised professional field evolves.

Location

Campus	Attendance	Mode
Penrith Campus	Full Time	Internal
Penrith Campus	Part Time	Internal

Admission

Graduate Diploma in Engineering will not be offered to commencing students. It will be made available only as an exit point for Master of Engineering students or for those intending to articulate from Graduate Certificate to Diploma.

Course Structure

The Graduate Diploma is a 60 Credit Point degree and it is completely embedded within the Master of Engineering. It has no prescribed sequence. Students are required to study:

300513.2 Engineering Software Applications
300206.2 Sustainable Design

And four 10 credit point Engineering Specialist Alternate units

For a list of Engineering Specialist Alternate units please refer to 3623 Master of Engineering.

Graduate Certificate in Engineering

3625.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course was July 2008 or later.

The Graduate Certificate in Engineering enhances the specialist training of students at a postgraduate level and enables them to adapt to a dynamically developing and changing technological environment. The course also

prepares students, especially those coming from a non-Australian learning background, for higher level postgraduate training.

Study Mode
Six months full-time or one year part-time.

Location

Campus	Attendance	Mode
Penrith Campus	Full Time	Internal
Penrith Campus	Part Time	Internal

Admission
Applicants must have an Advanced Diploma in any discipline and three years full time equivalent work experience as an Engineer or Technical Supervisor

or

An undergraduate degree in Science and one year full time equivalent work experience in an engineering field

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

International applicants must apply directly to the University of Western Sydney via UWS International.

International students applying to UWS through UWS International can find details of minimum English proficiency requirements and acceptable proof on the UWS International website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Course Structure
Qualification for this award requires the successful completion of 40 credit points including the units listed below.

300513.2	Engineering Software Applications
300206.2	Sustainable Design

And two 10 credit point Engineering Specialist Alternate units

For a list of Engineering Specialist Alternate units please refer to 3623 Master of Engineering.

Master of Fire Safety Engineering

2651.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2010 or later.

The course is designed to provide professionals with the skills and knowledge to assess, evaluate and recommend fire safety solutions. The course caters for the growing need to understand fire safety engineering principles, is relevant to professionals developing alternative solutions using the Building Code of Australia and the Fire Engineering Guidelines and is a recognised qualification for professionals seeking accreditation as a Fire Safety Engineer.

Study Mode
Two years part-time.

Location

Campus	Attendance	Mode
Penrith Campus	Part Time	External

Admission
Applicants must have an undergraduate degree in engineering, building, building surveying, architecture or science.

Applications from Australian citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Course Structure
Qualification for this award requires the successful completion of 80 credit points as per the recommended sequence below.

Session 1

300719.2	Fire and Building Regulations
300709.2	Fire Engineering 1 (Fire Dynamics)

Session 2

300717.2	Egress and Risk Assessment
300711.2	Building Fire Services

Session 3

300710.2	Fire Engineering 2 (Fire Models)
300718.2	Fire Engineering Design and Assessment

Session 4

200328.4	Built Environment Research Project

Graduate Diploma in Fire Safety Engineering

2652.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2010 or later.

The course is designed to provide professionals with the skills and knowledge to assess, evaluate and recommend fire safety solutions. The course caters for the growing need to understand fire safety engineering principles, is relevant to professionals developing alternative solutions using the Building Code of Australia and the Fire Engineering Guidelines.

Study Mode

One and a half years part time.

Location

Campus	Attendance	Mode
Penrith Campus	Part Time	External

Admission

Applicants must have an undergraduate degree in engineering, building, building surveying, architecture or science.

or

An AQF Diploma in engineering, building, building surveying, architecture or science plus four years professional work experience in engineering, the building industry, architecture or local government.

Applications from Australian citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS

Course Structure

Qualification for this award requires the successful completion of 60 credit points as per the recommended sequence below.

Session 1

300719.2 Fire and Building Regulations
300709.2 Fire Engineering 1 (Fire Dynamics)

Session 2

300717.2 Egress and Risk Assessment
300711.2 Building Fire Services

Session 3

300710.2 Fire Engineering 2 (Fire Models)
300718.2 Fire Engineering Design and Assessment

Graduate Certificate in Fire Safety Engineering

3653.1

The course is designed to provide professionals with the skills and knowledge to assess, evaluate and recommend fire safety solutions. The course caters for the growing need to understand fire safety engineering principles, is relevant to professionals developing alternative solutions using the Building Code of Australia and the Fire Engineering Guidelines.

Study Mode

One year part-time.

Location

Campus	Attendance	Mode
Penrith Campus	Part Time	External

Admission

Applicants must have an undergraduate degree in engineering, building, building surveying, architecture or science

or

An AQF Diploma in engineering, building, building surveying, architecture or science plus two years professional work experience in engineering, the building industry, architecture or local government

or

Full corporate membership of the Institute of Fire Engineers plus at least five years professional work experience in engineering, the building industry, architecture or local government.

Applications from Australian citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Course Structure

Qualification for this award requires the successful completion of 40 credit points as per the recommended sequence below.

Session 1

300719.2	Fire and Building Regulations
300709.2	Fire Engineering 1 (Fire Dynamics)

Session 2

300717.2	Egress and Risk Assessment
300711.2	Building Fire Services

Graduate Certificate in Health Informatics

3663.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course was 2012.

The Graduate Certificate in Health Informatics should appeal strongly to medicine/nursing/health graduates within ten years of graduation (who have some ICT foundation and are early enough in their career paths) who wish to acquire formal Health Informatics knowledge and competencies. It may also appeal to ICT, Engineering or Science graduates who are already working in the Health sector and wish to enhance their career options. It may further appeal to Health administration and management graduates who wish to develop or expand their capacity to take responsibilities in Health ICT services or projects.

The course will be offered normally in part-time format which will require at least one calendar year to complete. It will be available in full-time format only for students who qualify for exemption from the unit 300566 Introduction to Health Informatics. It will also be available in both on-campus and fully-external modes. Students will normally take four core units each of ten credit points. Teaching will be undertaken by UWS academic/casual staff and may be supplemented by guest lectures by Health sector staff with relevant expertise.

Study Mode

Six months full-time or one year part-time.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	External
Campbelltown Campus	Part Time	External
Campbelltown Campus	Full Time	Internal
Campbelltown Campus	Part Time	Internal
Parramatta Campus	Full Time	External
Parramatta Campus	Part Time	External
Parramatta Campus	Full Time	Internal
Parramatta Campus	Part Time	Internal
Penrith Campus	Full Time	External
Penrith Campus	Part Time	External
Penrith Campus	Full Time	Internal
Penrith Campus	Part Time	Internal

Admission

Students must have

an undergraduate or postgraduate coursework degree in any discipline

Or

Three years full-time equivalent employment in the health sector, such as health administration, health care or welfare, in a role involving use of IT for direct support of clinical operations (e.g. Nursing, radiography, pathology)

Basic ability in use of common aspects of ICT systems will be assumed such as word processing, spreadsheets, web browsers. No formal programming knowledge will be assumed.

Applications from Australian citizens and holders of permanent resident visas must be made via the Universities Admissions Centre

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Details of minimum English proficiency requirements and acceptable proof can be found on the Universities Admissions Centre website

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS

Course Structure

Qualification for this award requires the successful completion of 40 credit points including the units listed in the recommended sequence below.

Recommended Sequence

Year 1

Autumn session

300566.2	Introduction to Health Informatics
300578.3	Professional Development

Spring session

300567.3	e-Health
300568.2	Services Computing in Healthcare

Master of Information and Communications Technology

3642.1

The Master of Information and Communications Technology (Advanced) (MICT (Advanced)) course is a two year full-time/four year part-time course. It has three nested

awards - Master of Information and Communications Technology, Postgraduate Diploma in Information and Communications Technology and Postgraduate Certificate in Information and Communications Technology - with exits available after completion of eight, six and four units respectively.

Completion of eight units will lead to the Master of Information and Communications Technology (MICT): a) as a generic degree; or b) with specialisation program in Web Engineering; or c) with specialisation program in Networking.

Completion of six units will lead to a Postgraduate Diploma in Information and Communications Technology, and completion of four units will lead to a Postgraduate Certificate in Information and Communications Technology.

The course has been designed to prepare computing professionals and recent graduates for work in the information and communications technology sector at the highest levels in today's highly gloabalised and networked environment. It will provide students with the knowledge, understanding and skills to enable them to deal effectively with advanced issues in information and communications technologies in general, and in the fields of Web engineering and networking in particular. Graduates of the course should possess a solid foundation that will allow them to maintain their skills as their specialised fields evolve.

Study Mode

One year full-time or two years part-time.

Location

Campus	Attendance	Mode
Parramatta Campus	Full Time	Internal
Parramatta Campus	Part Time	Internal

Accreditation

The Master of Information and Communications Technology is currently accredited with the Australian Computer Society (ACS) at Professional level.

Admission

Eligibility for admission to the Master of Information and Communications Technology is based on the following requirements:

An undergraduate degree in Computing

or

An undergraduate degree in any discipline and Graduate Diploma in ICT or higher

or

An undergraduate degree in any discipline and three years full-time equivalent work experience in Information and Communications Technologies which includes experience in applying skills in: programming; network administration; database design; data structure analysis.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

International applicants must apply directly to the University of Western Sydney via UWS International.

International students applying to UWS through UWS International can find details of minimum English proficiency requirements and acceptable proof on the UWS International website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS

Course Structure

Qualification for this award requires the successful completion of eight units including the units listed below.

* Two core units

* At least four units at the postgraduate level from those offered by the School of Computing, Engineering and Mathematics, in either the generic specialisation or from the Web Engineering or Networking Specialisations, as listed below

* Up to two units, at postgraduate level, offered by other Schools within Health and Science disciplines or other disciplines as approved by the School from time to time

Common Core (20 credit points)

300695.2	Network Technologies
300693.2	Web Technologies

Non-specialisation (Generic) program

ICT units offered by the School of Computing and Mathematics (minimum 40 credit points - at least four of the following)

300252.3	Advanced Topics in Networking
300255.2	Network Management
300256.2	Multimedia Communication Systems
300260.2	IT Project Management
300389.2	Wireless Networking
300437.2	XML and Web Services
300443.2	Web Engineering
300692.2	Workflow Management Systems
300694.2	Advanced Topics in ICT
300696.2	Systems and Network Security
300697.2	Content Management Systems & Web Analytics
300769.2	Intelligent Agents for E-Markets
300770.2	Software Testing and Automation

With approval of Head of Program

300238.2	Computing Research Project A

Non-specialisation (Generic) program

Units offered by other Schools within UWS (maximum 20 credit points - at most two of the following)

Research Methods

Business Process Management

Enterprise Resource Planning

Business Process Integration

Web Engineering Specialisation (an additional 40 credit points)

ST3006.1 Web Engineering

Networking Specialisation (an additional 40 credit points)

ST3007.1 Networking

Master of Information and Communications Technology (Advanced)

3641.1

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course was 2009 or later.

The Master of Information and Communications Technology (Advanced) (MICT (Advanced)) course is a two year full-time/four year part-time course. It has three nested awards - Master of Information and Communications Technology, Postgraduate Diploma in Information and Communications Technology and Postgraduate Certificate in Information and Communications Technology - with exits available after completion of eight, six and four units respectively.

Completion of eight units will lead to Master of Information and Communications Technology (MICT): a) as a generic degree; or b) with specialisation program in Web Engineering; or c) with specialisation program in Networking.

Completion of six units will lead to a Postgraduate Diploma in Information and Communications Technology, and completion of four units will lead to a Postgraduate Certificate in Information and Communications Technology.

The course has been designed to prepare computing professionals and recent graduates for work in the information and communications technology sector at the highest levels in today's highly gloabalised and networked environment. It will provide students with the knowledge, understanding and skills to enable them to deal effectively with advanced issues in information and communications technologies in general, and in the fields of Web Engineering and Networking in particular. Graduates of the course should possess a solid foundation that will allow them to maintain their skills as their specialised fields evolve.

Study Mode

Two years full-time or four years part-time.

Location

Campus	Attendance	Mode
Parramatta Campus	Full Time	Internal
Parramatta Campus	Part Time	Internal

Accreditation

The Master of Information and Communications Technology (Advanced) is currently accredited with the Australian Computer Society (ACS) at Professional level.

Admission

Eligibility for admission to the Master of Information and Communications Technology (Advanced) is based on the following requirements:

An undergraduate degree in Computing

or

An undergraduate degree in any discipline and Graduate Diploma in ICT or higher

or

An undergraduate degree in any discipline and three years full-time equivalent work experience in Information and Communications Technologies which includes experience in applying skills in: programming; network administration; database design; data structure analysis.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

International applicants must apply directly to the University of Western Sydney via UWS International.

International students applying to UWS through UWS International can find details of minimum English proficiency requirements and acceptable proof on the UWS International website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS

Course Structure

Qualification for this award requires the successful completion of 16 units as per the recommended sequence below.

- Two core units.
- At least ten units at the postgraduate level from those offered by the School of Computing and Mathematics, as listed below.
- Up to four units, at postgraduate level, offered by other Schools within Health and Science other disciplines as approved by the School from time to time

Core Units

300695.2 Network Technologies
300693.2 Web Technologies

Non-specialisation (Generic) program

ICT units offered by the School of Computing and Mathematics (minimum 100 credit points - at least ten of the following)

300252.3	Advanced Topics in Networking
300255.2	Network Management
300256.2	Multimedia Communication Systems
300260.2	IT Project Management
300389.2	Wireless Networking
300437.2	XML and Web Services
300443.2	Web Engineering
300692.2	Workflow Management Systems
300694.2	Advanced Topics in ICT
300696.2	Systems and Network Security
300697.2	Content Management Systems & Web Analytics
300769.2	Intelligent Agents for E-Markets
300770.2	Software Testing and Automation

With approval of Director of Academic Programs

300238.2	Computing Research Project A

Complementary program

Units offered by other Schools within UWS (maximum 40 credit points - at most four of the following)

Research Methods

Business Process Management

Enterprise Resource Planning

Business Process Integration

Units from Engineering, Health and other disciplines subject to the approval by the Dean of School or Director of Academic Program

Postgraduate Diploma in Information and Communications Technology

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3643.1

The Postgraduate Diploma in ICT addresses the needs of the working professionals in ICT areas. We recognise that ICT professionals have clear goals and career paths in mind and hence are focused on improving their expertise in the areas that they choose rather than go through a fully pre-designed course. The two core units, Network Technologies and Web Technologies strongly address today's highly globalised and networked environment. The remaining four units can be freely chosen from those on offer to suit student's own background and future plans.

Study Mode

One year full-time or two years part-time.

Location

Campus	Attendance	Mode
Parramatta Campus	Full Time	Internal
Parramatta Campus	Part Time	Internal

Accreditation

The Postgraduate Diploma in Information and Communications Technology is currently accredited with the Australian Computer Society (ACS) at Associate level.

Admission

Eligibility for admission to the Postgraduate Diploma in Information and Communications Technology is based on the following requirements:

An undergraduate degree in Computing

or

An undergraduate degree in any discipline and Graduate Diploma in ICT or higher

or

An undergraduate degree in any discipline and three years full-time equivalent work experience in Information and Communications Technologies which includes experience in applying skills in: programming; network administration; database design; data structure analysis.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

International applicants must apply directly to the University of Western Sydney via UWS International.

International students applying to UWS through UWS International can find details of minimum English proficiency requirements and acceptable proof on the UWS International website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS

Course Structure

Qualification for this award requires the successful completion of six units including the units listed below.

Two core units

Any four of the units at postgraduate level , offered by the School of Computing, Engineering and Mathematics, from the generic specialisation or from the Web Engineering or Networking Specialisations, as listed below.

Core Units

300695.2	Network Technologies
300693.2	Web Technologies

Non-key (Generic) program

ICT units offered by the School of Computing, Engineering and Mathematics (40 credit points - any four of the following)

300252.3	Advanced Topics in Networking
300255.2	Network Management

300256.2	Multimedia Communication Systems
300260.2	IT Project Management
300389.2	Wireless Networking
300437.2	XML and Web Services
300443.2	Web Engineering
300692.2	Workflow Management Systems
300694.2	Advanced Topics in ICT
300696.2	Systems and Network Security
300697.2	Content Management Systems & Web Analytics
300769.2	Intelligent Agents for E-Markets
300770.2	Software Testing and Automation

With approval of Director of Academic Program

300238.2	Computing Research Project A

Web Engineering Specialisation

(an additional 40 credit points)

ST3006.1	Web Engineering

Networking Specialisation

(an additional 40 credit points)

ST3007.1	Networking

Postgraduate Certificate in Information and Communications Technology

3644.1

The Postgraduate Certificate in ICT addresses the needs of busy ICT professionals who have clear goals and career paths in mind.

Study Mode

Six months full-time or one year part-time.

Location

Campus	Attendance	Mode
Parramatta Campus	Full Time	Internal
Parramatta Campus	Part Time	Internal

Admission

Eligibility for admission to the Postgraduate Certificate in Information and Communications Technology is based on the following requirements:

An undergraduate degree in Computing

or

An undergraduate degree in any discipline and Graduate Diploma in ICT or higher

or

An undergraduate degree in any discipline and three years full-time equivalent work experience in Information and Communications Technologies which includes experience in applying skills in: programming; network administration; database design; data structure analysis.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

International applicants must apply directly to the University of Western Sydney via UWS International.

International students applying to UWS through UWS International can find details of minimum English proficiency requirements and acceptable proof on the UWS International website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS

Course Structure

Qualification for this award requires the successful completion of four units including the units listed below.

Two core units

Any two of the units at postgraduate level offered by the School of Computing, Engineering and Mathematics, as listed below

Core Units

300695.2	Network Technologies
300693.2	Web Technologies

Non-specialisation (Generic) program

ICT units offered by the School of Computing, Engineering and Mathematics (20 credit points - any two of the following)

300252.3	Advanced Topics in Networking
300255.2	Network Management
300256.2	Multimedia Communication Systems
300260.2	IT Project Management
300389.2	Wireless Networking
300437.2	XML and Web Services
300443.2	Web Engineering
300692.2	Workflow Management Systems
300694.2	Advanced Topics in ICT
300696.2	Systems and Network Security
300697.2	Content Management Systems & Web Analytics
300769.2	Intelligent Agents for E-Markets
300770.2	Software Testing and Automation

With approval of Director of Academic Programs

300238.2	Computing Research Project A

Graduate Diploma in Information and Communications Technology

3645.1

Graduate Diploma in Information and Communications Technology is a one-year full-time or two-years part-time course designed to open a pathway for non-ICT graduates,

with or without professional experience in ICT field, to study ICT at master's level after the completion of the course.

Anecdotal evidence suggests that more than 80% of the ICT workforce have not had university-level qualifications in ICT. For such people, the Graduate Diploma offers a formal training in the theoretical aspects of ICT and thus a solid base from which to continue their progression in the ICT field. They will also benefit from the University's policies on recognition of prior learning (RPL) by allowing a matching of an individual's professional experience against specific units that form part of the Graduate Diploma in Information and Communications Technology. The level of knowledge covered during this course also enables it to stand on its own, to suit an individual career path or specific needs of an industry.

The inexperienced non-ICT students will be able to forge a career in ICT. GradDipICT has an exit point, Graduate Certificate in ICT, which requires completion of any four of the eight units prescribed for the diploma. Fee-help will be available under SECT guidelines to the local students.

Study Mode

One year full-time or two years part-time.

Location

Campus	Attendance	Mode
Parramatta Campus	Full Time	Internal
Parramatta Campus	Part Time	Internal

Accreditation

The Graduate Diploma in Information and Communications Technology is currently accredited with the Australian Computer Society (ACS) at Associate level.

Admission

Eligibility for admisison to the Graduate Diploma in Information and Communications Technology is based on the following requirements:

* An undergraduate degree in any discipline

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

International applicants must apply directly to the University of Western Sydney via UWS International.

International students applying to UWS through UWS International can find details of minimum English proficiency requirements and acceptable proof on the UWS International website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS

Course Structure

Qualification for this award requires the successful completion of eight units as follows

Autumn session

300580.2	Programming Fundamentals
300585.2	Systems Analysis and Design
300582.2	Technologies for Web Applications
300578.3	Professional Development

Spring session

300565.2	Computer Networking
300144.4	Object Oriented Analysis
300104.4	Database Design and Development
300570.3	Human-Computer Interaction

To graduate with the Graduate Certificate in Information and Communications Technology, a student must complete a total of any four units from the list above.

Graduate Certificate in Information and Communications Technology

3646.1

Anecdotal evidence suggests that more than 80 percent of the ICT workforce have not had university-level qualifications in ICT. For such people, the Graduate Diploma offers a formal training in the theoretical aspects of ICT and thus a solid base from which to continue their progression in the ICT field. They will also benefit from the University's policies on recognition of prior learning (RPL) by allowing a matching of an individual's professional experience against specific units that form part of the Graduate Diploma in Information and Communications Technology. The level of knowledge covered during this course also enables it to stand on its own, to suit an individual career path or specific needs of an industry.

The inexperienced non-ICT students will be able to forge a career in ICT. GradDipICT has an exit point, Graduate Diploma in Information and Communications Technology, which requires completion of any four of the eight units prescribed for the diploma. Fee-help will be available under SECT guidelines to the local students.

Study Mode

Six months full-time or one year part-time.

Location

Campus	Attendance	Mode
Parramatta Campus	Full Time	Internal
Parramatta Campus	Part Time	Internal

Admission

Eligibility for admission to the Graduate Certificate in Information and Communications Technology is based on the following requirements:

* An undergraduate degree in any discipline

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

International applicants must apply directly to the University of Western Sydney via UWS International.

International students applying to UWS through UWS International can find details of minimum English proficiency requirements and acceptable proof on the UWS International website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS

Course Structure

Qualification for this award requires the successful completion of a total of four units taken from the units within the Graduate Diploma in Information and Communications Technology - see list below.

Autumn session

300580.2	Programming Fundamentals
300585.2	Systems Analysis and Design
300582.2	Technologies for Web Applications
300578.3	Professional Development

Spring session

300565.2	Computer Networking
300144.4	Object Oriented Analysis
300104.4	Database Design and Development
300570.3	Human-Computer Interaction

Graduate Diploma in Professional Computing

3512.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course was 2005 or later.

This one year course is especially designed to enable graduates of the Bachelor of Technology (Information Technology Support), or an equivalent para-professional computing or information technology bachelors degree, to upgrade their qualifications to a professional level. Students successfully completing this diploma will be eligible for admission to the Australian Computer Society at professional level. Graduating students are also eligible for admission to postgraduate computing and information technology courses at masters level. The course extends skills, knowledge and experience gained in the B Tech (Information Technology Support) in the key areas of programming; systems analysis and design; data communications and networking; and Internet application design and implementation.

Study Mode

One year full-time, principally on Penrith campus. From time to time some units may only be offered at Campbelltown or Parramatta campuses.

Location

Campus	Attendance	Mode
Penrith Campus	Full Time	Internal

Accreditation

The Graduate Diploma in Professional Computing currently is accredited with the Australian Computer Society (ACS) at Professional Level.

Admission

Eligibility for admission to the Graduate Diploma of Professional Computing is based on the following requirement:

An undergraduate degree in Information Technology Support, Computing or Information and Communications Technologies.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

International applicants must apply directly to the University of Western Sydney via UWS International.

International students applying to UWS through UWS International can find details of minimum English proficiency requirements and acceptable proof on the UWS International website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS

Course Structure

Recommended Sequence

Qualification for this award requires the successful completion of 80 credit points as per the recommended sequence below.

Full-time

Year 1

Autumn session

300125.2	Fundamentals of Computer Science
300144.4	Object Oriented Analysis
300160.2	Software Interface Design
300095.4	Computer Networks and Internets

Spring session

300103.2 Data Structures and Algorithms
300146.2 Object Oriented Design
300104.4 Database Design and Development
300085.2 Advanced Web Site Development

Unit Sets

Specialisation - Web Engineering

ST3006.1

Unit Set Structure

Students must complete the following four units

300437.2	XML and Web Services
300443.2	Web Engineering
300692.2	Workflow Management Systems
300697.2	Content Management Systems & Web Analytics

Specialisation - Networking

ST3007.1

Unit Set Structure

Choose four units from the following

300252.3	Advanced Topics in Networking
300255.2	Network Management
300256.2	Multimedia Communication Systems
300389.2	Wireless Networking
300696.2	Systems and Network Security

Specialisation - Civil

ST3018.1

Location

Campus	Mode
Penrith Campus	Internal

Unit Set Structure

Students who wish to graduate with an Environmental specialisation must complete the four core units and four specialist units from the list below.

Core units

300513.2	Engineering Software Applications
300206.2	Sustainable Design
300597.2	Master Project 1
300598.2	Master Project 2

Environmental Specialist units

300605.2	Advanced Structural Design
300594.3	Advanced Structural Analysis
300595.2	Advanced Water Engineering
300604.2	Advanced Geotechnical Engineering

Specialisation - Environmental

ST3019.1

Location

Campus	Mode
Penrith Campus	Internal

Unit Set Structure

Students who wish to graduate with an Environmental specialisation must complete the four core units and four specialist units from the list below.

Core units

300513.2	Engineering Software Applications
300206.2	Sustainable Design
300597.2	Master Project 1
300598.2	Master Project 2

Environmental Specialist units

MI807A.2	Water and Wastewater Microbiology
300595.2	Advanced Water Engineering
300604.2	Advanced Geotechnical Engineering
300602.2	Advanced Environmental Engineering

Specialisation - Computer

ST3021.1

Location

Campus	Mode
Penrith Campus	Internal

Unit Set Structure

Students who wish to graduate with a Computer specialisation must complete the four core units and four specialist units from the list below.

Core units

300513.2	Engineering Software Applications
300206.2	Sustainable Design
300597.2	Master Project 1
300598.2	Master Project 2

Computer Specialist units

Choose four of

300603.2	Advanced Control Systems
300173.2	Advanced Data Networks
300174.2	Advanced Digital Systems
300196.2	Personal Communication Systems
300193.2	Multimedia Engineering
300515.2	Instrumentation and Measurement (PG)

Specialisation - Electrical

ST3022.1

Location

Campus	Mode
Penrith Campus	Internal

Unit Set Structure

Students who wish to graduate with an Electrical specialisation must complete the four core units and four specialist units from the list below.

Core units

300513.2 Engineering Software Applications
300206.2 Sustainable Design
300597.2 Master Project 1
300598.2 Master Project 2

Electrical Specialist units

Choose four of

300603.2 Advanced Control Systems
300173.2 Advanced Data Networks
300197.2 Power System Planning and Economics
300596.2 Advanced Signal Processing
300601.2 Advanced Electrical Machines and Drives
300515.2 Instrumentation and Measurement (PG)

Specialisation - Telecommunication

ST3023.1

Location

Campus	Mode
Penrith Campus	Internal

Unit Set Structure

Students who wish to graduate with a Telecommunication specialisation must complete the four core units and four specialist units from the list below.

Core units

300513.2 Engineering Software Applications
300206.2 Sustainable Design
300597.2 Master Project 1
300598.2 Master Project 2

Telecommunication Specialist units

300173.2 Advanced Data Networks
300174.2 Advanced Digital Systems
300193.2 Multimedia Engineering
300196.2 Personal Communication Systems
300596.2 Advanced Signal Processing
300515.2 Instrumentation and Measurement (PG)

Specialisation - Mechatronic

ST3024.1

Location

Campus	Mode
Penrith Campus	Internal

Unit Set Structure

Students who wish to graduate with a Mechatronic specialisation must complete the four core units and four specialist units from the list below.

Core units

300513.2 Engineering Software Applications
300206.2 Sustainable Design
300597.2 Master Project 1
300598.2 Master Project 2

Mechatronic Specialist units

300599.2 Advanced Robotics
300600.2 Mechatronic System Design
300603.2 Advanced Control Systems
300601.2 Advanced Electrical Machines and Drives

Specialisation - Clinical Teaching

ST4011.1

The Clinical Teaching specialisation provides students with an opportunity to gain formal education in clinical teaching to either enhance their existing teaching experience or provide skill development in this area. Graduates who complete the Clinical Teaching specialisation will be prepared to take on a leadership role in clinical teaching in the roles such as clinical nurse educator, nurse educator, clinical nurse specialist and undergraduate placement facilitator.

Location

Campus	Mode
Parramatta Campus	Internal

Unit Set Structure

Students must complete 80 credit points including the units listed in the recommended sequence below.

Recommended Sequence

Full-time

Year 1

Autumn session

400235.2	Leadership in Clinical Practice
400238.3	Policy, Power and Politics in Health Care Provision
400974.1	Clinical Teaching for Learning

And one elective

Spring session

400206.2	Evidence-based Nursing
400973.1	Clinical Teaching and Professional Development
400807.2	Transforming Nursing Practice

And one elective

Part-time

Year 1

Autumn session

400235.2	Leadership in Clinical Practice

And one elective

Spring session

400973.1	Clinical Teaching and Professional Development
400206.2	Evidence-based Nursing

Year 2

Autumn session

400238.3	Policy, Power and Politics in Health Care Provision
400974.1	Clinical Teaching for Learning

Spring session

400807.2	Transforming Nursing Practice

And one elective

Specialisation - Research

ST4012.1

The Research specialisation provides students with foundation level research training that will support them to increase their involvement in research within the clinical setting or seek admission to a research higher degree. Graduates who complete the Research specialisation will be prepared to function as an active member of a research team or seek admission to a higher degree research program.

Location

Campus	Mode
Parramatta Campus	External

Unit Set Structure

Students must complete 80 credit points including the units listed in the recommended sequence below.

Recommended Sequence

Full-time

Year 1

Autumn session

400235.2	Leadership in Clinical Practice
400238.3	Policy, Power and Politics in Health Care Provision
400200.2	Applied Nursing Research

And one elective

Spring session

400975.1	Ethics in Health Research
400206.2	Evidence-based Nursing
400807.2	Transforming Nursing Practice

And one elective

Part-time

Year 1

Autumn session

400235.2	Leadership in Clinical Practice

And one elective

Spring session

400975.1	Ethics in Health Research
400206.2	Evidence-based Nursing

Year 2

Autumn session

400238.3	Policy, Power and Politics in Health Care Provision
400200.2	Applied Nursing Research

Spring session

400807.2	Transforming Nursing Practice

And one elective

SCHOOL OF SCIENCE AND HEALTH

Master of Health (Research Studies)/PhD

4681.1

The Master of Health (Research Studies)/PhD program is designed for professionals working in a variety of settings including health care services, hospitals, the aged care sector and community organisations, enabling them to effectively assess and respond to emerging health planning and management issues. It allows students to undertake coursework study in areas of discipline specific interest as well as providing appropriate research skills training.

The Doctor of Philosophy (PhD) component provides training and education with the objective of producing graduates with the capacity to conduct research independently at a high level of originality and quality. A PhD candidate should uncover new knowledge either by the discovery of new facts, the formulation of theories or the innovative re-interpretation of known data and established ideas.

Study Mode

Four and a half years full-time (one and a half years for the Master of Health (Research Studies) plus three years for the PhD).

Location

Campus	Attendance	Mode
Parramatta Campus	Full Time	Internal

Admission

This course is only available to International students. Please contact the Course Advisor for further information.

Course Structure

The Master of Health (Research Studies)/PhD degree will include a 120 credit point Master degree that has a research training component of one third (40 credit points) with a coursework component of discipline based content of two thirds (80 credit points).

The PhD component of the course will be completed according to the current UWS Doctor of Philosophy policy.

The course will comprise the following

Core Units - 30 credit points

Research Training - 40 credit points

Alternate Health units - 40 credit points

One Elective unit - 10 credit points

Students must successfully complete the following

Core units - 30 credit points

400416.2	Public Health, Policy and Society
400967.2	Health Economics and Comparative Health Systems
400778.2	Leadership and the Development of Organisational Capacity

Research Training component - 40 credit points

300398.2	Methods of Researching
400850.2	Professional Topic
300742.2	Science and Health Research Project PG

Note: 300742 Science and Health Research Project is a 20 credit point unit

Alternate Health units - 40 credit points from the following

400417.2	Epidemiology and Quantitative Methods
400841.2	A Global Perspective on Social Determinants of Health
400840.3	Communicable Diseases
400418.2	Health Advancement and Health Promotion
400843.2	Health Workforce Planning
300391.2	Occupational Health Management
300677.2	Safety and Risk Management
300682.2	Occupational and Environmental Hygiene
400206.2	Evidence-based Nursing
400847.2	Surveillance and Disaster Planning
400837.1	Health and Socio-political Issues in Aged Care

Note: Enrolment in UWS units other than those listed above for the Master of Health (Research Studies) portion may be possible with Director of Academic Program permission.

And one elective unit - 10 credit points

In order for students to progress into the PhD research program, they must have an average grade of 75 percent or greater across all units and have obtained a unit grade of greater than 74 percent for 300742 Science and Health Research Project. The required research HRD documentation will be assessed by the College of Health and Science Research and Higher Degree Committee.

As part of this evaluation, successful candidature will be dependent on the availability of appropriate topics and available supervision. In order to facilitate this transition, students will be given ongoing academic advice regarding potential doctoral projects during the course of their Master's study.

Master of Health Science

4651.3

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2011 or later.

Areas of relevance to health employees in the public or private sector form the foundation subjects of this course: Health Policy; Leadership; Health Economics and Financial Management; Research Applications.

A choice of specialisations is offered: Health Services Management; Aged Care Management; Health Planning; International Health; Health Promotion; Occupational Health & Safety; Occupational & Environmental Hygiene; Research Studies.

A generic option is also available. (Students supplement the foundation subjects by choosing their remaining subjects from a pool).

Study Mode
One year full-time or two years part-time.

Location

Campus	Attendance	Mode
Parramatta Campus	Full Time	External
Parramatta Campus	Part Time	External
Parramatta Campus	Full Time	Internal
Parramatta Campus	Part Time	Internal

Accreditation
Graduates of the Master of Health Science with specialisations in Health Services Management, Aged Care Management and Health Planning will be eligible for professional accreditation with the Australasian College of Health Service Management (ACHSM).

Admission
Applicants must have either:

an undergraduate degree, or higher, in a health, welfare or aged care discipline

or

a graduate diploma or graduate certificate in a health, welfare or aged care discipline plus at least three years work experience in a health, welfare or aged care discipline.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

International applicants must apply directly to the University of Western Sydney via UWS International.

International students applying to UWS through UWS International can find details of minimum English proficiency requirements and acceptable proof on the UWS International website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Course Structure

Master of Health Science (generic option)
For Specialisations available please see below.

Qualification for this award requires the successful completion of 80 credit points including the units listed in the recommended sequence below.

Recommended sequence

Full-time (Start year intake)

Autumn session

300398.2 Methods of Researching
400845.2 Health Financial Management

Choose one of

400416.2 Public Health, Policy and Society
400238.3 Policy, Power and Politics in Health Care Provision

Choose one of

400846.2 Building Organisational Capacity in Health Care
400778.2 Leadership and the Development of Organisational Capacity

Students may exit with a Graduate Certificate in Health Science at this point.

Spring session

Two units chosen from the prescribed list of health science units below

Students may exit with a Graduate Diploma in Health Science at this point.

One unit chosen from the prescribed list of health science units below

Choose one of

400850.2 Professional Topic

Or one elective

Part-time (Start year intake)

Year 1

Autumn session

400845.2 Health Financial Management

Choose one of

400416.2 Public Health, Policy and Society
400238.3 Policy, Power and Politics in Health Care Provision

Spring session

300398.2 Methods of Researching

Choose one of

400846.2 Building Organisational Capacity in Health Care
400778.2 Leadership and the Development of Organisational Capacity

Students may exit with a Graduate Certificate in Health Science at this point.

Year 2

Autumn session

Two units chosen from the prescribed list of health science units below

Students may exit with a Graduate Diploma in Health Science at this point.

Spring session

One unit chosen from the prescribed list of health science units below

Choose one of

400850.2 Professional Topic

Or one elective

Full-time (Mid-year intake)

Spring session

300398.2 Methods of Researching

One unit chosen from the prescribed list of health science units below

Choose one of

400846.2 Building Organisational Capacity in Health Care
400778.2 Leadership and the Development of Organisational Capacity

Choose one of

400850.2 Professional Topic

Or one elective

Autumn session

400845.2 Health Financial Management

Two units chosen from the prescribed list of health science units below

Choose one of

400416.2 Public Health, Policy and Society
400238.3 Policy, Power and Politics in Health Care Provision

Part-time (Mid-year intake)

Year 1

Spring session

300398.2 Methods of Researching

Choose one of

400846.2 Building Organisational Capacity in Health Care
400778.2 Leadership and the Development of Organisational Capacity

Autumn session

One unit chosen from the prescribed list of health science units below

Choose one of

400416.2 Public Health, Policy and Society
400238.3 Policy, Power and Politics in Health Care Provision

Year 2

Spring session

One unit chosen from the prescribed list of health science units below

Choose one of

400850.2 Professional Topic

Or one elective

Autumn session

400845.2 Health Financial Management

One unit chosen from the prescribed list of health science units below

Recommended Electives and Prescribed list of Health Science units

The following units are offered in internal (on campus) mode

400841.2 A Global Perspective on Social Determinants of Health
400850.2 Professional Topic

Note: 400850 Professional Topic is only available to students wishing to pursue a research higher degree after graduation

The following units are offered in external mode

400840.3 Communicable Diseases
400845.2 Health Financial Management

The following units are offered in both internal (on campus) and external mode

300391.2 Occupational Health Management
300398.2 Methods of Researching
300677.2 Safety and Risk Management
300679.2 Air, Water and Noise Management
300682.2 Occupational and Environmental Hygiene
400418.2 Health Advancement and Health Promotion
400837.2 Health and Socio-political Issues in Aged Care
400842.2 Quality and Safety in Health Care
400843.2 Health Workforce Planning
400844.2 Health Services and Facilities Planning

Specialisations

ST4013.1 Health Services Management

From 2010 this specialisation is offered in on- campus and external mode. This specialisation is designed for managers who require skills in contemporary management

and their application in the health care setting. Particular emphasis is placed on critical and analytic skills in policy analysis, economic evaluation and epidemiology, thus providing graduates with the ability to respond creatively to changes as they arise. Health managers need to be current with developments in the general business area so potential in the health care setting can be evaluated and appropriate initiatives implemented. Particular specialty units include Strategy Analysis, Decision Making Human Resource Management, also Quality and Safety in Health Care.

ST4001.1 Aged Care Management

From 2010 this specialisation is offered in on- campus and external mode. Staff working in health and aged care organisations, charitable and private sectors especially those in supervisory and management positions will find this exposes them to contemporary issues in aged care, allowing them to up-skill management knowledge to position themselves in the forefront of innovation in the delivery and organisation of quality aged care. Specialty units include Health and Socio-Political Issues in Aged Care, Leadership in Quality & Safety in Health Care and Health Workforce Planning. They have an opportunity to undertake Professional Topic or an elective. Judicious selection of an elective means students can study in a second specialty area eg Health Planning, Health Services Management or Human Resources and Industrial Relations Management.

ST4002.1 Health Planning

From 2010 this specialisation is offered in on- campus and external mode. All managers undertake forward planning to proactively manage future services and identify workforce and facility requirements. This specialty keeps students up to date with current forward planning approaches and initiatives in health and other sectors that work with health. Students are exposed to the process of planning, how to set goals and objectives, monitor and evaluate performance outcomes. Current issues are explored in the specialty units Health Services and Facilities Planning, Workforce Planning and also Quality and Safety in Health Care. Second specialty options include Health Services management, Human Resources and Industrial Relations Management and Aged Care Management.

ST4003.1 International Health

This specialisation broadens the public health approach of looking at all determinants of health, which include broader social and environmental factors in addition to physical risk factors to include international health studies. For this, students will study a wide range of evaluation processes and research methods such as policy analysis, economic evaluation, epidemiology and qualitative methods. The focus of practical skills is in Communicable Diseases, and students will integrate research, analytical and practical skills in the evaluation of contemporary public health issues. A double specialty is possible with the health promotion specialty.

ST4004.1 Health Promotion

In addition to the four core units, this specialisation includes Health Promotion Health Advancement and A Global Perspective on Social Determinants of Health. Students are taken through the process of health needs analysis, risk and protective factors, planning, writing grant applications and evaluating interventions, based on identified competency requirements.

ST4005.1 Occupational Health & Safety

Specialisation units include Occupational Health Management and Safety and Risk Management which focus on the practice of occupational health within national and international frameworks. It explores issues such as the physical, social and mental impact of the occupational environment on health. Strategies for the management of occupational health are examined, together with methods of monitoring and evaluating occupational health programs. Students have the opportunity to develop a safety systems approach concentrating on hazard identification, risk assessment and devising control measures incorporating safety management principles. The legal underpinning of OHS requirements at the workplace are also covered. A double specialty with the next option is possible. Students may select two electives to suit their career aspirations.

ST4006.1 Occupational & Environmental Hygiene

The specialisation includes the units Occupational and Enviro Hygiene also Air Water and Noise Management. They show students the methods involved in measuring potential hazards, how to compare results with current standards before recommending methods of control. Hazards such as chemical and biological pollutants, ergonomics, noise, heat, cold and lighting in both the workplace and general indoor environment, and the various methods are considered. A range of skills required to assess the environment in relation to air, water and noise and underpinning legislative framework are explored.

ST4010.1 Research Studies

This specialisation is designed for students wishing to proceed to higher degree in research. It includes specialty units in Research Philosophy and Methodology and a 20 credit point unit Advanced Thesis Preparation, in addition to the core unit of methods of Researching. This helps students understand how to identify a research problem critically evaluated the literature and prepare a research proposal. It allows students to become familiar with the requirements of thesis writing from an early stage and develops an appreciation for ethical issues in research in higher degrees.

Graduate Diploma in Health Science

4652.3

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2011 or later.

Areas of relevance to health employees in the public or private sector form the foundation subjects of this course: Health Policy; Leadership; Health Economics and Financial Management; Research Applications. Choice of specialisations is offered: Health Services Management; Aged Care Management; Health Planning; International Health; Health Promotion; Occupational Health & Safety; Occupational & Environmental Hygiene.

A generic option is also available. (Students supplement the foundation subjects by choosing their remaining subjects from a pool).

Study Mode
One year full-time or one and a half years part-time.

Location

Campus	Attendance	Mode
Parramatta Campus	Full Time	External
Parramatta Campus	Part Time	External
Parramatta Campus	Full Time	Internal
Parramatta Campus	Part Time	Internal

Accreditation
Graduates of the Graduate Diploma in Health Science with specialisations in Health Services Management, Aged Care Management and Health Planning will be eligible for professional accreditation with the Australasian College of Health Service Management (ACHSM).

Admission
Applicants must have either:

an undergraduate degree, or higher, in a health, welfare or aged care discipline

or

an undergraduate degree in any discipline plus at least two years work experience in a health, welfare or aged care discipline

or

a graduate diploma or graduate certificate in a health, welfare or aged care discipline plus at least two years work experience in a health, welfare or aged care discipline.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

International applicants must apply directly to the University of Western Sydney via UWS International.

International students applying to UWS through UWS International can find details of minimum English proficiency requirements and acceptable proof on the UWS International website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Course Structure

Graduate Diploma in Health Science (generic option)
Qualification for this award requires the successful completion of 60 credit points including the units listed in the recommended sequence below.

Recommended sequence

Generic Option

Full-time (Start year intake)

Autumn session

300398.2 Methods of Researching
400845.2 Health Financial Management

Choose one of

400416.2 Public Health, Policy and Society
400238.3 Policy, Power and Politics in Health Care Provision

Choose one of

400846.2 Building Organisational Capacity in Health Care
400778.2 Leadership and the Development of Organisational Capacity

Students may exit with a Graduate Certificate in Health Science at this point.

Spring session

Two units chosen from the prescribed list of health science units

Part-time (Start year intake)

Year 1

Autumn session

400845.2 Health Financial Management

Choose one of

400416.2 Public Health, Policy and Society
400238.3 Policy, Power and Politics in Health Care Provision

Spring session

300398.2 Methods of Researching

Choose one of

400846.2 Building Organisational Capacity in Health Care
400778.2 Leadership and the Development of Organisational Capacity

Students may exit with a Graduate Certificate in Health Science at this point.

Year 2

Autumn session

Two units chosen from the prescribed list of health science units

Recommended Electives and Prescribed list of Health Science units

The following units are offered in internal (on campus) mode

400841.2 A Global Perspective on Social Determinants of Health
400850.2 Professional Topic

Note: 400850 Professional Topic is only available to students wishing to pursue a research higher degree after graduation

The following units are offered in external mode

400840.3 Communicable Diseases
400845.2 Health Financial Management

The following units are offered in both internal (on campus) and external mode

300391.2 Occupational Health Management
300398.2 Methods of Researching
300677.2 Safety and Risk Management
300679.2 Air, Water and Noise Management
300682.2 Occupational and Environmental Hygiene
400418.2 Health Advancement and Health Promotion
400837.2 Health and Socio-political Issues in Aged Care
400842.2 Quality and Safety in Health Care
400843.2 Health Workforce Planning
400844.2 Health Services and Facilities Planning

Specialisations

ST4013.1 Health Services Management

From 2010 this specialisation is offered in on- campus and external mode. This specialisation is designed for managers who require skills in contemporary management and their application in the health care setting. Particular emphasis is placed on critical and analytic skills in policy analysis, economic evaluation and epidemiology, thus providing graduates with the ability to respond creatively to changes as they arise. Health managers need to be current with developments in the general business area so potential in the health care setting can be evaluated and appropriate initiatives implemented. Particular specialty units include Strategy Analysis, Decision Making Human Resource Management, also Quality and Safety in Health Care.

ST4001.1 Aged Care Management

From 2010 this specialisation is offered in on- campus and external mode. Staff working in health and aged care organisations, charitable and private sectors especially those in supervisory and management positions will find this exposes them to contemporary issues in aged care, allowing them to up-skill management knowledge to position themselves in the forefront of innovation in the delivery and organisation of quality aged care. Specialty units include Health and Socio-Political Issues in Aged Care, Leadership in Quality & Safety in Health Care and Health Workforce Planning. They have an opportunity to undertake Professional Topic or an elective. Judicious selection of an elective means students can study in a second specialty area eg Health Planning, Health Services Management or Human Resources and Industrial Relations Management.

ST4002.1 Health Planning

From 2010 this specialisation is offered in on- campus and external mode. All managers undertake forward planning to proactively manage future services and identify workforce and facility requirements. This specialty keeps students up to date with current forward planning approaches and initiatives in health and other sectors that work with health. Students are exposed to the process of planning, how to set goals and objectives, monitor and evaluate performance outcomes. Current issues are explored in the specialty units Health Services and Facilities Planning, Workforce Planning and also Quality and Safety in Health Care. Second specialty options include Health Services management, Human Resources and Industrial Relations Management and Aged Care Management.

ST4003.1 International Health

This specialisation broadens the public health approach of looking at all determinants of health, which include broader social and environmental factors in addition to physical risk factors to include international health studies. For this, students will study a wide range of evaluation processes and research methods such as policy analysis, economic evaluation, epidemiology and qualitative methods. The focus of practical skills is in Communicable Diseases, and students will integrate research, analytical and practical skills in the evaluation of contemporary public health issues. A double specialty is possible with the health promotion specialty.

ST4004.1 Health Promotion

In addition to the four core units, this specialty includes Health Promotion Health Advancement and A Global Perspective on Social Determinants of Health. Students are taken through the process of health needs analysis, risk and protective factors, planning, writing grant applications and evaluating interventions, based on identified competency requirements.

ST4005.1 Occupational Health & Safety

Specialisation units include Occupational Health Management and Safety and Risk Management which focus on the practice of occupational health within national and international frameworks. It explores issues such as the physical, social and mental impact of the occupational environment on health. Strategies for the management of occupational health are examined, together with methods of monitoring and evaluating occupational health programs. Students have the opportunity to develop a safety systems approach concentrating on hazard identification, risk assessment and devising control measures incorporating safety management principles. The legal underpinning of

OHS requirements at the workplace are also covered. A double specialty with the next option is possible. Students may select two electives to suit their career aspirations.

ST4006.1 Occupational & Environmental Hygiene

The specialisation includes the units Occupational and Enviro Hygiene also Air Water and Noise Management. They show students the methods involved in measuring potential hazards, how to compare results with current standards before recommending methods of control. Hazards such as chemical and biological pollutants, ergonomics, noise, heat, cold and lighting in both the workplace and general indoor environment, and the various methods are considered. A range of skills required to assess the environment in relation to air, water and noise and underpinning legislative framework are explored.

Graduate Certificate in Health Science

4653.3

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2011 or later.

Areas of relevance to health employees in the public or private sector form the foundation subjects of this course: Health Policy; Leadership; Health Economics and Financial Management; Research Applications.

Study Mode
Six months full-time or 1 year part-time.

Location

Campus	Attendance	Mode
Parramatta Campus	Full Time	External
Parramatta Campus	Part Time	External
Parramatta Campus	Full Time	Internal
Parramatta Campus	Part Time	Internal

Admission
Applicants must have either:

an undergraduate degree, or higher, in a health, welfare or aged care discipline

or

a graduate diploma or graduate certificate in any discipline plus at least two years work experience in a health, welfare or aged care discipline

or

at least three years work experience in a health, welfare or aged care environment.

Applications from Australian citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

International applicants must apply directly to the University of Western Sydney via UWS International.

International students applying to UWS through UWS International can find details of minimum English proficiency requirements and acceptable proof on the UWS International website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Course Structure

Graduate Certificate in Health Science (generic option)
Qualifications for this award requires the successful completion of 40 credit points, including the units listed in the recommended sequence below.

Recommended Sequence

Generic Option

Full-time (Start year intake)

Autumn session

300398.2 Methods of Researching
400845.2 Health Financial Management

Choose one of

400416.2 Public Health, Policy and Society
400238.3 Policy, Power and Politics in Health Care Provision

Choose one of

400846.2 Building Organisational Capacity in Health Care
400778.2 Leadership and the Development of Organisational Capacity

Note 1: International students must select 400778 in the internal mode to ensure that they do not exceed the 25% limit of external units.

Note 2: Mid-year entry is possible, but not for student visa holders.

Part-time (Start year intake)

Autumn session

400845.2 Health Financial Management

Choose one of

400416.2 Public Health, Policy and Society
400238.3 Policy, Power and Politics in Health Care Provision

Spring session

300398.2 Methods of Researching

Choose one of

400846.2 Building Organisational Capacity in Health Care
400778.2 Leadership and the Development of Organisational Capacity

Note 1: International students must select 400778 in the internal mode to ensure that they do not exceed the 25% limit of external units.

Note 2: Mid-year entry is possible, but not for student visa holders.

Master of Health Science (Acupuncture)

4678.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2011 or later.

The Master of Health Science (Acupuncture) is a dynamic, postgraduate course designed for acupuncturists and Traditional Chinese Medicine practitioners wishing to strengthen their knowledge of acupuncture and better integrate in the health care system. Students will have an opportunity to develop an evidence-based approach to practice and may choose to specialise in a nominated clinical field. The integration of acupuncture with orthodox medical management and/or diagnostics is incorporated into many units. The course will be delivered via structured, intensive workshops with self-directed learning between workshops to allow maximum flexibility for busy practitioners.

Study Mode

Two years part-time. An early exit route of eighteen months part-time - Graduate Diploma in Health Science (Acupuncture) and a one year part-time Graduate Certificate in Health Science (Acupuncture) are available.

Location

Campus	Attendance	Mode
Bankstown Campus	Part Time	Internal

Advanced Standing

Applications for advanced standing will be assessed in accordance with current UWS policy.

Admission

Applicants must have:

An undergraduate degree in Acupuncture or Traditional Chinese Medicine

or

A Diploma, Advanced Diploma or Associate Degree in Traditional Chinese Medicine or Acupuncture

or

Five years full-time equivalent clinical work experience in the field of Traditional Chinese Medicine or Acupuncture and recognition by an Australian professional association representing Chinese herbalists or acupuncturists.

Applicants holding full membership from any of associations in Group 1 will be accepted without additional assessment. Applicants holding any type of membership other than full membership from any associations in Group 1, or applicants holding any type of membership from any association in Group 2 will be further assessed. For each of these applicants, this assessment will be an interview by the Head of Program and a nominee of the Head of School. The interview will assess the applicant's prior learning, experience in the discipline and understanding of the assumed knowledge appropriate to entry into the course.

Association

Group 1

- Chinese Medicine Registration Board of Victoria (CMRBV)
- Australian Acupuncture and Chinese Medicine Association (AACMA)
- The Australian Traditional Chinese Medicine Association Inc (ATCMA)
- Chinese Medicine and Acupuncture Society of Australia (CMASA)
- Joint ATCMA & CMASA (established on 3rd July 2010)
- Australian Chinese Medical Association (Victoria) (ACMA)
- The Australian Medical Acupuncture College
- Australian Medical Acupuncture Society (AMAS)
- Australian College of Acupuncturist (ACAL)
- Australian Natural Therapist Association (ANTA)
- Australian Traditional Chinese Medicine Association (ATCMA)
- Australian Traditional Medicine Society (ATMS)
- Federation of Chinese Medicine and Acupuncture Societies of Australia (FCMA)
- NSW Association of Chinese Medicine (NSWACM)
- Victorian Traditional Acupuncture Society / Chinese Medicine Association (VTAS/CMA)

Group 2

- Acupuncture Association of Victoria Inc (AAV)
- Acupuncture Association of Australia (AAA)
- Acupuncture Association of Australia, New Zealand and Asia (AAANZA)
- Australian Acupuncture Association Ltd / Acupuncture Ethics and Standards Organisation Ltd (AAcA/AESO)
- Australian Nurses Acupuncture Association (ANAA)
- Australian Physiotherapy Association (Acupuncture Study Group) (APA)
- Society of Natural Therapists & Researchers (SNTR)
- Register of Acupuncture and Traditional Chinese Medicine (RATCM)
- Shiatsu Therapy Association of Australia (STAA)
- Traditional Medicine of China Society Australia (TMSC)

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Course Structure

Qualification for this award requires the successful completion of 80 credit points including the two core units listed below.

Core units

400567.2	Evidence Based Practice in Chinese Medicine 1
400568.2	Evidence Based Practice in Chinese Medicine 2

Specialist Units

Students must complete six specialist units from the following pool.

400570.3	Women's Health in Chinese Medicine 1
400572.2	Dermatology in Chinese Medicine 1
400574.2	Musculoskeletal Health in Chinese Medicine 1
400575.2	Musculoskeletal Health in Chinese Medicine 2
400578.2	Advanced Acupuncture
400687.2	Chinese Medicine Specialities 1
400688.2	Mental Health in Chinese Medicine
400689.2	Neurological Disorders in Chinese Medicine

Graduate Diploma Exit Point

Students may exit with a Graduate Diploma in Health Science (Acupuncture) upon the successful completion of the two core units plus four specialist units (60 credit points).

Graduate Certificate Exit Point

Students may exit with a Graduate Certificate in Health Science (Acupuncture) upon the successful completion of any four core or specialist units (40 credit points).

Graduate Diploma in Health Science (Acupuncture) (exit only)

4679.1

Exit point only. Refer to Master of Health Science (Acupuncture), course code 4678.

Location

Campus	Attendance	Mode
Bankstown Campus	Part Time	Internal

Graduate Certificate in Health Science (Acupuncture) (exit only)

4680.1

Exit point only. Refer to Master of Health Science (Acupuncture), course code 4678.

Location

Campus	Attendance	Mode
Bankstown Campus	Part Time	Internal

Master of Health Science (Traditional Chinese Medicine)

4675.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2011 or later.

The Master of Health Science (Traditional Chinese Medicine) (TCM) is a dynamic, postgraduate course designed for TCM practitioners wishing to strengthen their knowledge and better integrate in the health care system. Students will have an opportunity to develop an evidence-based approach to practice and may choose to specialise in a nominated clinical field. The integration of TCM with orthodox medical management and/or diagnostics is incorporated into many units. The course will be delivered via structured, intensive workshops with self-directed learning between workshops to allow maximum flexibility for busy practitioners.

Entry to some specialist units will be limited to practitioners with appropriate qualifications in Chinese herbal medicine.

Study Mode

Two years part-time. An early exit route of eighteen months part-time - Graduate Diploma in Health Science (Acupuncture) and a one year part-time Graduate Certificate in Health Science (Acupuncture) are available.

Location

Campus	Attendance	Mode
Bankstown Campus	Part Time	Internal

Advanced Standing

Applications for advanced standing will be assessed in accordance with current UWS policy.

Admission

Applicants must have:

An undergraduate degree in Acupuncture or Traditional Chinese Medicine

or

A Diploma, Advanced Diploma or Associate Degree in Traditional Chinese Medicine or Acupuncture

or

Five years full-time equivalent clinical work experience in the field of Traditional Chinese Medicine or Acupuncture and recognition by an Australian professional association representing Chinese herbalists or acupuncturists.

Applicants holding full membership from any of associations in Group 1 will be accepted without additional assessment. Applicants holding any type of membership other than full membership from any associations in Group 1, or applicants holding any type of membership from any association in Group 2 will be further assessed. For each of these applicants, this assessment will be an interview by the Head of Program and a nominee of the Head of School. The interview will assess the applicant's prior learning, experience in the discipline and understanding of the assumed knowledge appropriate to entry into the course.

Association

Group 1

- Chinese Medicine Registration Board of Victoria (CMRBV)
- Australian Acupuncture and Chinese Medicine Association (AACMA)
- The Australian Traditional Chinese Medicine Association Inc (ATCMA)
- Chinese Medicine and Acupuncture Society of Australia (CMASA)
- Joint ATCMA & CMASA (established on 3rd July 2010)
- Australian Chinese Medical Association (Victoria) (ACMA)
- The Australian Medical Acupuncture College
- Australian Medical Acupuncture Society (AMAS)
- Australian College of Acupuncturist (ACAL)
- Australian Natural Therapist Association (ANTA)
- Australian Traditional Chinese Medicine Association (ATCMA)
- Australian Traditional Medicine Society (ATMS)
- Federation of Chinese Medicine and Acupuncture Societies of Australia (FCMA)
- NSW Association of Chinese Medicine (NSWACM)
- Victorian Traditional Acupuncture Society / Chinese Medicine Association (VTAS/CMA)

Group 2

- Acupuncture Association of Victoria Inc (AAV)
- Acupuncture Association of Australia (AAA)
- Acupuncture Association of Australia, New Zealand and Asia (AAANZA)
- Australian Acupuncture Association Ltd / Acupuncture Ethics and Standards Organisation Ltd (AAcA/AESO)
- Australian Nurses Acupuncture Association (ANAA)
- Australian Physiotherapy Association (Acupuncture Study Group) (APA)
- Society of Natural Therapists & Researchers (SNTR)
- Register of Acupuncture and Traditional Chinese Medicine (RATCM)
- Shiatsu Therapy Association of Australia (STAA)
- Traditional Medicine of China Society Australia (TMSC)

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Course Structure

Qualification for this award requires the successful completion of 80 credit points including the two core units listed below.

Core units

400567.2	Evidence Based Practice in Chinese Medicine 1
400568.2	Evidence Based Practice in Chinese Medicine 2

Specialist Units

Students must complete six specialist units from the following pool.

400569.2	Pharmacology of Chinese Medicines
400570.3	Women's Health in Chinese Medicine 1
400571.3	Women's Health in Chinese Medicine 2
400572.2	Dermatology in Chinese Medicine 1
400573.2	Dermatology in Chinese Medicine 2
400574.2	Musculoskeletal Health in Chinese Medicine 1
400575.2	Musculoskeletal Health in Chinese Medicine 2
400576.2	Chinese Medicine Classics
400578.2	Advanced Acupuncture
400687.2	Chinese Medicine Specialities 1
400688.2	Mental Health in Chinese Medicine
400689.2	Neurological Disorders in Chinese Medicine

Graduate Diploma Exit Point

Students may exit with a Graduate Diploma in Health Science (Traditional Chinese Medicine) upon the successful completion of the two core units plus four specialist units (60 credit points)

Graduate Certificate Exit Point

Students may exit with a Graduate Certificate in Health Science (Traditional Chinese Medicine) upon the successful completion of any four core or specialist units (40 credit points).

Graduate Diploma in Health Science (Traditional Chinese Medicine) (exit only)

4676.1

Exit point only. Refer to Master of Health Science (Traditional Chinese Medicine) - course code 4675.

Location

Campus	Attendance	Mode
Bankstown Campus	Part Time	Internal

Graduate Certificate in Health Science (Traditional Chinese Medicine) (exit only)

4677.1

Exit point only. Refer to Master of Health Science (Traditional Chinese Medicine) - course code 4675.

Location

Campus	Attendance	Mode
Bankstown Campus	Part Time	Internal

Master of Occupational Therapy

4664.1

Occupational therapy is a highly regarded field in which you can apply your knowledge and skills to provide therapy for people who, because of illness, injury or circumstances, are limited in their ability to perform everyday tasks. The program promotes the value of human diversity, fundamental human rights and the dignity and worth of every client. Occupational therapists find employment in public and private hospitals, rehabilitation centres, insurance companies, schools and large corporations.

The Masters program is designed for graduates of health science and related disciplines seeking to enter the occupational therapy profession. The two year program covers the theory and practice of occupational therapy, practical experience in the field and specialised areas to develop the professional competencies important for ethical and safe practice and high quality care and the skills to work in multidisciplinary teams. Evidence-based practice is one of the most important trends in healthcare today and a strong feature of the program.

Study Mode

Two years full-time.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal

Accreditation

This course has been granted interim accreditation and will be reviewed for final accreditation in 2013. The course is designed to satisfy the criteria documented by Occupational Therapy Australia and the World Federation of Occupational Therapists for entry-level occupational therapy education programs.

Admission

Admission for Australian residents is through application via UAC.

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

Prerequisites:

- Three year degree in Health Science or related discipline completed in the last ten years
- Grade point average greater than 5.0

All applicants will be assessed on their prior learning and given advice if additional units need to be completed in order to have the required background knowledge in behavioural and biological sciences.

International students apply directly to the University through the International Students Office.

International students applying to UWS through UWS International can find details of minimum English proficiency requirements and acceptable proof on the UWS International website.

In order to enrol in First Year Autumn units, all students must have:

- NSW Health National Criminal Record Check
- Prohibited Employment Declaration Form

In order to enrol in First Year Spring units, all students must have:

- First Aid Certificate

To be eligible to undertake fieldwork/ practice placements, students must comply with vaccination requirements and be prepared to submit a completed Adult Immunisation Card to placement institutions. Details of necessary vaccinations are available from NSW Health.

Course Structure

Qualification for this award requires the successful completion of 160 credit points including the units listed in the recommended sequence below.

Year 1

Autumn session

400911.1	Occupational Therapy Theory and Practice
400171.2	Occupation and Neurology
400169.2	Occupation and Mental Health
400912.1	Occupational Therapy Process

Spring session

400162.2	Child and Adolescent Occupations
400165.2	Occupation and the Environment
400865.2	Evidence-Based Practice
400176.3	Occupation and Ageing

Year 2

Autumn session

400913.1	Occupational Therapy Practice 4 Project
400916.1	Occupational Justice
400926.1	Ergonomics and Work Occupations
400917.1	Occupational Therapy Specialties

Spring session

400925.1	Professional Reasoning
400914.1	Occupational Therapy Practice 4
400915.1	Occupational Therapy Practice 4 Workshop

Master of Physiotherapy

4667.1

Physiotherapy is a highly regarded profession and demand for physiotherapists is strong. Physiotherapists work in private practice, aged care settings, private and public hospitals, workplaces, community based agencies, schools, rehabilitation centres and chronic health management clinics. Patients range across the life span, from birth to athletes and the elderly.

The Masters program is designed for graduates of health science and related disciplines seeking to enter the physiotherapy profession. The two year program covers the theory and practice of physiotherapy, practical experience in the field and specialised areas to develop the professional competencies important for ethical and safe practice, high quality care and the skills to work in multidisciplinary teams. Evidence-based practice is one of the most important trends in healthcare today and a strong feature of the program.

Study Mode
Two years full-time.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal

Accreditation
The program is designed to meet all the requirements for accreditation by the Australian Physiotherapy Council and accreditation is being sought.

Inherent requirements
There are inherent requirements for this course that you must meet in order to complete your course and graduate. Make sure you read and understand the requirements for this course online.

Admission
Prerequisites:

Bachelors degree or higher in Health Science or related discipline completed in the last 10 years with a GPA of 5.0 (credit average) or higher, provided that prerequisite studies are completed. There is a quota of places available. All applicants with a GPA of 5.0 or greater will be considered. If places remain available, applicants with a GPA between 4.5 and 5.0 will be considered.

Prerequisite knowledge as follows:

- Human Anatomy and Physiology equivalent to the current UWS units 400868 - Human Anatomy and Physology 1, 400869 - Human Anatomy and Physology 2, 400881- Functional Anatomy
- Neuroscience equivalent to the current UWS unit of 300754
- Psychology equivalent to current UWS unit of 101614
- Research methods equivalent to current UWS units of 400863, 400864
- Biomechanics equivalent to current UWS unit of 400882

Knowledge in the following areas would be an advantage

- Pathophysiology
- Clinical Pharmacology

In order to enrol, all students must have:

- National Criminal History Record Check (National Police Certificate)
- A Prohibited Employment Declaration prior to 1 June 2010 OR a Working with Children Check Student Declaration after 1 June 2010
- First Aid Certificate (including cardiopulmonary resuscitation)

Admission for Australian residents is through application via UAC.

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

International students apply directly to the University through the International Students Office.

International students applying to UWS through UWS International can find details of minimum English proficiency requirements and acceptable proof on the UWS International website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Special Requirements
Special note: Students in this program are required to participate fully in practical classes. This involves disrobing to shorts and singlet or swim-suit equivalent in mixed gender classes. Students will practice hands-on physiotherapy examination and treatment techniques on both genders, and will personally experience these techniques which will be performed on them by other

students and relevant academic staff. To be eligible for clinical placements, students must comply with vaccination requirements and be prepared to submit a completed Adult Immunisation Card to placement institutions. NSW Health can provide details of necessary vaccinations. To be eligible to undertake field/work/practice placements, students must also comply with the NSW Health Records and Information Privacy Act (2004) and complete a relevant declaration. In clinical placement units, students must wear the UWS physiotherapy uniform, which complies with NSW uniform requirements.

Course Structure

Qualification for this award requires the successful completion of 160 credit points which include the units listed in the recommended sequence below.

Year 1

1H session

400984.1	Cardiorespiratory Physiotherapy
400987.1	Neurological Physiotherapy Practice
400983.1	Orthopaedic Physiotherapy

Autumn session

400985.1	Clinical Education A

Spring session

400997.1	Exercise Rehabilitation
400998.1	Neurological Rehabilitation
400865.2	Evidence-Based Practice
400999.1	Musculoskeletal Physiotherapy

Year 2

Please Note: The confirmed structure for year 1 Spring session and Year 2 which covers the theory and clinical practice of physiotherapy, will be available at a later date.

Master of Podiatric Medicine

4665.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2012 or later.

Podiatrists are best known for treating problems that people experience with their feet, but they are increasingly playing an important role in addressing chronic conditions such as diabetes. As a podiatrist, your patients can range from children to active sportspeople to the ageing. There is a large focus on footwear, from everyday wear to workwear and athletic shoes, as well as common problems such as ingrown toenails or bunions. Podiatrists are employed in sports medicine, community centres to help the aged become more mobile, private practice, ensuring children have footwear that meets their needs, and hospital teams, addressing problems associated with chronic diseases and acute problems such as diabetes. You may also continue your training and become a podiatric surgeon.

The Masters program is designed for graduates of health science and related disciplines seeking to enter the podiatry profession. The two year program covers the theory and practice of podiatry, practical experience in the field and specialised areas to develop the professional competencies important for ethical and safe practice and high quality care and the skills to work in multidisciplinary teams. Evidence-based practice is one of the most important trends in healthcare today and a strong feature of the program.

Study Mode

Two years full-time.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal

Accreditation

Current accreditation will be through the Australian and New Zealand Accreditation Council (ANZPAC). Initial accreditation granted in September 2010.

Admission

Prerequisites:

- Bachelor degree or equivalent in Health Science or related discipline completed in the last ten years with a Grade point average (GPA) of 5.0 (credit average) or higher, provided that prerequisite studies are completed.
- There is a quota of places available. All applicants with a GPA of 5.0 or greater will be considered. If places remain available, applicants with a GPA between 4.5 and 5.0 will be considered.
- Pre-requisite knowledge is required in Human Anatomy and Physiology (equivalent to the current UWS units 400868, 400869, 400881), Psychology (equivalent to the UWS unit 101614), Research methods (equivalent to the current UWS units of 400863, 400864), Neuroscience (equivalent to the current UWS unit of 300754) and Biomechanics (equivalent to the current UWS unit of 400882).
- In addition, assumed knowledge in pathophysiology and pharmacology would be an asset.

All applicants will be assessed on their prior learning and given advice if additional units need to be completed in order to have the pre-requisite knowledge in behavioural and biological sciences.

Applications from Australian citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

International students must apply directly to the University of Western Sydney via UWS International.

International students applying to UWS through UWS International can find details of minimum English

proficiency requirements and acceptable proof on the UWS International website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI_NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Special Requirements

In order to enrol students must have: 1. National Criminal History Record Check (National Police Certificate), 2. Prohibited Employment Declaration Form prior to 1st June 2010 or a Working with Children Check Student Declaration after 1st June 2010. 3. First Aid Certificate (including cardiopulmonary resuscitation). To be eligible to undertake fieldwork placements in public hospitals, students must comply with vaccination requirements and be prepared to submit a completed Adult Immunisation Card to placement institutions. Details of necessary vaccinations are available from NSW Health.

Course Structure

Qualification for this award requires the successful completion of 160 credit points including the units listed in the recommended sequence below.

Year 1

Autumn session/1H session

400942.3	Introduction to Podiatry and Clinical Education
400935.3	Podiatric Techniques 1A
400936.3	Podiatric Techniques 1B
400929.2	Podiatric Practice 1

Spring session/2H session

400937.3	Podiatric Techniques 2A
400938.3	Podiatric Techniques 2B
400865.2	Evidence-Based Practice
400930.3	Podiatric Practice 2

Year 2

Autumn session/1H session

400939.2	Podiatric Techniques 3A
400940.2	Podiatric Techniques 3B
400941.2	Podiatric Techniques 3C
400931.2	Podiatric Practice 3

Spring session/2H session

400934.2	Podiatric Professional Practice Studies
400928.2	Podiatric Clinical Block
400932.2	Podiatric Practice 4

Master of Public Health

4571.3

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2010 or later.

The Master of Public Health course is designed for professionals working in a variety of settings, including health departments and community organisations. Emphasised is a comprehensive assessment of all determinants of health, which include broader social and environmental factors in addition to physical risk factors. Public health professionals are required to effectively assess and respond to emerging public health issues. For this, students will study a wide range of evaluation processes and research methods such as policy analysis, economic evaluation, epidemiology and qualitative methods. The focus of practical skills is in community development and health promotion programs. Students will integrate research, analytic and practical skills in the evaluation of contemporary public health issues.

Study Mode

One year full-time or two years part-time.

Location

Campus	Attendance	Mode
Parramatta Campus	Full Time	Internal
Parramatta Campus	Part Time	Internal

Admission

Applicants must have either:

an undergraduate degree, or higher, in a health, welfare or aged care discipline

or

a graduate diploma or graduate certificate in a health, welfare or aged care discipline plus at least three years work experience in a health, welfare or aged care discipline.

Applications from Australian citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

International applicants must apply directly to the University of Western Sydney via UWS International.

International students applying to UWS through UWS International can find details of minimum English proficiency requirements and acceptable proof on the UWS International website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Course Structure

Qualification for this award requires the successful completion of 80 credit points including the units listed in the recommended sequence below.

Recommended Sequence

Full-time

Year 1

Autumn session

400416.2	Public Health, Policy and Society
400846.2	Building Organisational Capacity in Health Care
400841.2	A Global Perspective on Social Determinants of Health
300398.2	Methods of Researching

Spring session

400418.2	Health Advancement and Health Promotion
400847.2	Surveillance and Disaster Planning
400967.2	Health Economics and Comparative Health Systems
400417.2	Epidemiology and Quantitative Methods

Part-time

Year 1

Autumn session

400416.2	Public Health, Policy and Society
300398.2	Methods of Researching

Spring session

400847.2	Surveillance and Disaster Planning
400417.2	Epidemiology and Quantitative Methods

Students may exit with a Graduate Certificate in Public Health at this point.

Year 2

Autumn session

400841.2	A Global Perspective on Social Determinants of Health
400846.2	Building Organisational Capacity in Health Care

Spring session

400967.2	Health Economics and Comparative Health Systems
400418.2	Health Advancement and Health Promotion

Graduate Diploma in Public Health

4572.3

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2010 or later.

The Graduate Diploma course in public health is designed for health professionals who wish to extend and consolidate both practical and research skills for public health practice. For this, students will study a wide range of evaluation processes and research methods such as policy analysis, economic evaluation, epidemiology and qualitative methods. Practical program skills are developed in community development and health promotion.

Study Mode

One year full-time or one and a half years part-time.

Location

Campus	Attendance	Mode
Parramatta Campus	Full Time	Internal
Parramatta Campus	Part Time	Internal

Admission

Applicants must have either:

an undergraduate degree, or higher, in a health, welfare or aged care discipline

or

an undergraduate degree in any discipline plus at least two years work experience in a health, welfare or aged care discipline

or

a graduate diploma or graduate certificate in a health, welfare or aged care discipline plus at least two years work experience in a health, welfare or aged care discipline.

Applications from Australian citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

International applicants must apply directly to the University of Western Sydney via UWS International.

International students applying to UWS through UWS International can find details of minimum English proficiency requirements and acceptable proof on the UWS International website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Course Structure

Qualification for this award requires the successful completion of 60 credit points including the units listed in the recommended sequence below.

Recommended Sequence

Full-time

Year 1

Autumn session

400416.2	Public Health, Policy and Society
400841.2	A Global Perspective on Social Determinants of Health
300398.2	Methods of Researching

Spring session

400967.2	Health Economics and Comparative Health Systems
400417.2	Epidemiology and Quantitative Methods
400418.2	Health Advancement and Health Promotion

Part-time

Year 1

Autumn session

400416.2	Public Health, Policy and Society
300398.2	Methods of Researching

Spring session

400967.2	Health Economics and Comparative Health Systems
400417.2	Epidemiology and Quantitative Methods

Year 2

Autumn session

400418.2	Health Advancement and Health Promotion
400841.2	A Global Perspective on Social Determinants of Health

Graduate Certificate in Public Health

4573.3

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2010 or later.

To complete the Graduate Certificate students select any four of the six units in the Graduate Diploma course. The six units provide a range of critical, research and practical skills in the areas of policy analysis, economic evaluation, epidemiology and qualitative methods, community development and health promotion. The course will suit students who seek an introduction to public health or who wish to limit their studies according to their needs.

Study Mode

One year part-time.

Location

Campus	Attendance	Mode
Parramatta Campus	Part Time	Internal

Admission

Applicants must have either:

an undergraduate degree, or higher, in a health, welfare or aged care discipline

or

a graduate diploma or graduate certificate in any discipline plus at least two years work experience in a health, welfare or aged care discipline

or

at least three years work experience in a health, welfare or aged care environment.

Applications from Australian citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Course Structure

Qualification of this award requires successful completion of 40 credit points taken from the units listed below.

Recommended Sequence

Student may graduate with a Graduate Certificate in Public Health upon the successful completion of any four units (40 credit points) taken from the six units listed, all from 4572 Graduate Diploma in Public Health.

400416.2	Public Health, Policy and Society
400418.2	Health Advancement and Health Promotion
400841.2	A Global Perspective on Social Determinants of Health
400967.2	Health Economics and Comparative Health Systems
400417.2	Epidemiology and Quantitative Methods
300398.2	Methods of Researching

Master of Science

3647.4

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2011 or later.

This program provides advanced theoretical and practical knowledge in a range of specialist scientific fields, through lectures, workshops, projects and directed study. Students can develop understanding of specialist fields in which they have little previous knowledge, or extend their previous expertise.

The following choice of specialisations is offered:

A generic option is also available.

Study Mode

One year full-time or two years part-time.

Location

Campus	Attendance	Mode
Hawkesbury Campus	Full Time	Multi Modal
Hawkesbury Campus	Part Time	Multi Modal

Admission

Eligibility for admission to the Master of Science is based on the following requirements:

An undergraduate degree in any discipline

or

Graduate Diploma or Graduate Certificate in any discipline and one year full-time equivalent work experience in occupational health and safety, environmental management, occupational hygiene, climate change, natural resource management or biotechnology.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

International applicants must apply directly to the University of Western Sydney via UWS International.

International students applying to UWS through UWS International can find details of minimum English proficiency requirements and acceptable proof on the UWS International website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Course Structure

For Specialisations offered, please see below.

Master of Science (generic option)

Qualification for this award requires the successful completion of 80 credit points, including the units listed below.

Choose one of

300396.2 Developing Professional Practice
300683.2 Principles and Practice of Biotechnology 1

Choose one of

300397.2 Perspectives of Sustainable Development
300678.2 Advanced Analytical Techniques

Choose one of

300398.2 Methods of Researching
300768.2 Methods of Scientific Researching

Choose one of

300742.2 Science and Health Research Project PG
300767.2 Science Research Project PG

Two or three units chosen from the prescribed list of science units below. Depending on whether 300742 (20 credit points) or 300767 (30 credit points) is chosen.

Students wishing to exit with a Graduate Diploma are required to complete 60 credit points consisting of the following units.

Choose one of

300396.2 Developing Professional Practice
300683.2 Principles and Practice of Biotechnology 1

Choose one of

300397.2 Perspectives of Sustainable Development
300678.2 Advanced Analytical Techniques

Choose one of

300398.2 Methods of Researching
300768.2 Methods of Scientific Researching

Three units chosen from the prescribed list of science units below.

Graduate Certificate in Science (generic option)

Qualification for this award requires the successful completion of 40 credit points, including the units listed below.

Choose one of

300396.2 Developing Professional Practice
300683.2 Principles and Practice of Biotechnology 1

Choose one of

300397.2 Perspectives of Sustainable Development
300678.2 Advanced Analytical Techniques

Two units chosen from the prescribed list of science units below.

300677.2 Safety and Risk Management
300391.2 Occupational Health Management
300690.2 Environmental Assessment
300681.2 Climate Change Impacts
300686.2 Sustainable Resource Management
300679.2 Air, Water and Noise Management
300682.2 Occupational and Environmental Hygiene
300678.2 Advanced Analytical Techniques
300688.1 Noise Assessment and Control
300680.2 Biotechnology Analytical Techniques
300683.2 Principles and Practice of Biotechnology 1
300684.2 Principles & Practice of Biotechnology 2
300685.2 Special Issues in Science - PG

Note: 300685 Special Issues in Science - PG is only available to Masters students - permission of Head of Program required for enrolment

400850.2 Professional Topic

Note: 400850 Professional Topic is only available to students who wish to pursue a research higher degree after graduation - permission of Head of Program required for enrolment

Note: Enrolment in UWS units other than those listed above is possible with Head of Program permission.

Specialisations

The Specialisations will be offered in mulit-modal mode through a combination of compulsory on-campus workshops, facilitated on-campus tutorials (compulsory for International students; optional for domestic students - tutorial material and processes will be duplicated on vUWS so non-attending students are not disadvantaged) and extensive use of vUWS. For most units face-to-face on-campus attendance will be equivalent to two to three hours per week over a 14 week semester.

ST3013.1 Occupational Safety, Health & Environmental Management

The Occupational Safety, Health & Environmental Management specialisation provides advanced theoretical and practical knowledge in the occupational health, safety and environmental management field. It is most suited for students who are already working in this field, although can be undertaken by students in allied fields who want a career change to Health, Safety and Environment roles. Students will learn to critically evaluate the social, economic and environmental impacts of policy and management decisions and analyse current and emerging issues in health, safety and environmental management. They will also develop the skills to develop new or adapt current strategies and to take a leadership role in responding to change in this very dynamic and challenging field. Students enrolled in the Masters will be required to undertake a half year pilot research project and develop a change management strategy for a current OSHEM issue. The specialisation is offered in both full time and part time modes with a multimodal attendance pattern through a combination of compulsory on-campus workshops, facilitated on-campus tutorials, and extensive use of the UWS e-learning support system.

ST3020.1 Climate Change & Environmental Management

This specialisation provides professional environmental resource managers a range of opportunities to upgrade their leadership skills and competencies of climate change mitigation and adaptation. The complex and uncertain nature of climate change will require increased foresight and the application of a range of practical skills across many sectors and professions for climate change adaptation and mitigation process. This specialisation will provide knowledge, skills and practices to effectively prepare towards responding to climate change and building resilience in communities, resources and industries. Students will have opportunities in learning the impacts of soils, climate, water and their interactions on rural, peri-urban and urban landscapes. They are able to analyse strategies and tactics employed in their own area of work to minimise risks and maximise opportunities related to climate change and climate variability. Experience gained will enhance their skills and competencies for evaluating and adapting appropriate resource management strategies and policy development. They will also develop the skills to develop new or adapt current strategies and to take a leadership role in responding to change in this very dynamic and challenging field. Students enrolled in the Masters will be required to undertake a half year pilot research project and develop a change management strategy for a current SRM issue. It is offered in both full time and part time modes with a multimodal attendance pattern through a combination of compulsory on-campus workshops, facilitated on-campus tutorials, and extensive use of the UWS e-learning support system.

ST3017.1 Biotechnology

This specialisation aims to provide advanced education in biotechnology and to prepare students for diverse careers in this field. It is designed mainly for students who have a first degree in basic biological or chemical sciences but little prior education in biotechnology. Biotechnology applies scientific and engineering principles to the processing of material by biological agents to provide goods and services. The requirements for biotechnologists are as diverse as the purposes for which microbial, plant and animal cells have been harnessed to produce food, medicines and chemicals useful to mankind. This specialisation will encourage students to actively participate in the learning process. Opportunities for student planning and development of projects based upon a strong understanding of fundamental concepts and processes will be provided. Multidisciplinary knowledge and practical skills will be integrated to provide a hands-on problem solving approach. Students enrolled in the Masters will be required to undertake a full year biotechnology research project. It is offered in both full time and part time modes with compulsory on-campus attendance required.

Master of Science (Research Studies)/PhD

3662.1

The Master of Science (Research Studies)/PhD program is designed for professionals interested in expanding their theoretical and practical knowledge in a range of scientific fields such as biotechnology, environmental, climate change and sustainable resource management, occupational safety, health and hygiene. It allows students to undertake flexible coursework study in areas of scientific interest as well as providing appropriate research skills training.

The Doctor of Philosophy (PhD) component provides training and education with the objective of producing graduates with the capacity to conduct research independently at a high level of originality and quality. A PhD candidate should uncover new knowledge either by the discovery of new facts, the formulation of theories or the innovative re-interpretation of known data and established ideas.

Study Mode

Four and a half years full-time (one and a half years for the Master of Science (Research Studies) plus three years for the PhD).

Location

Campus	Attendance	Mode
Hawkesbury Campus	Full Time	Internal

Admission

This course is only available to International students. Please contact the Head of Program for further information.

Course Structure

The Master of Science (Research Studies)/PhD degree will include a 120 credit point Master degree that has a research training component of one third (40 credit points) with a coursework component of discipline based content of two thirds (80 credit points).

The PhD component of the course will be completed according to the current UWS Doctor of Philosophy policy.

The course will comprise the following:

Core Units - 20 credit points

Research Training - 40 credit points

Alternate Science units - 50 credit points

One Elective unit - 10 credit points

Students must successfully complete the following:

Core units - 20 credit points

300396.2 Developing Professional Practice

Choose one of

300397.2 Perspectives of Sustainable Development
300678.2 Advanced Analytical Techniques

Research Training component - 40 credit points

300398.2 Methods of Researching
300742.2 Science and Health Research Project PG

Note: 300742 Science and Health Research Project PG is a 20 credit point unit

Choose one of

300399.2 Researching Professional Issues
400850.2 Professional Topic

Alternate Science units - 50 credit points (chosen from the following)

300397.2 Perspectives of Sustainable Development
300400.3 Managing for Sustainable Development
300686.2 Sustainable Resource Management
300681.2 Climate Change Impacts
300683.2 Principles and Practice of Biotechnology 1
300684.2 Principles & Practice of Biotechnology 2
300680.2 Biotechnology Analytical Techniques
300678.2 Advanced Analytical Techniques
300685.2 Special Issues in Science - PG
300391.2 Occupational Health Management
300677.2 Safety and Risk Management
300679.2 Air, Water and Noise Management
300682.2 Occupational and Environmental Hygiene
300689.1 Environmental Management Systems
300690.2 Environmental Assessment

Note: Enrolment in UWS units other than those listed above for the Master of Science (Research Studies) portion may be possible with Head of Program permission.

And one elective unit - 10 credit points

In order for students to progress into the PhD research program, they must have an average grade of 75% or greater across all units and have obtained a unit grade of greater than 74% for 300742 Science and Health Research Project. The required research HRD documentation will be assessed by the College of Health and Science Research and Higher Degree Committee.

As part of this evaluation, successful candidature will be dependent on the availability of appropriate topics and available supervision. In order to facilitate this transition, students will be given ongoing academic advice regarding potential doctoral projects during the course of their Master's study.

Graduate Diploma in Science (exit only)

3648.4

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2011 or later.

This is an exit award only. Applicants apply to 3647.4 Master of Science and exit with the Graduate Diploma award after completing 60 credit points. Also students should refer to 3647.4 Master of Science for Specialisations available.

Location

Campus	Attendance	Mode
Hawkesbury Campus	Full Time	Multi Modal
Hawkesbury Campus	Part Time	Multi Modal

Graduate Certificate in Science

3649.4

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2010 or later.

This program provides advanced theoretical and practical knowledge in a range of specialist scientific fields, through lectures, workshops, projects and directed study. Students can develop understanding of specialist fields in which they have little previous knowledge, or extend their previous expertise.

The following specialisation is offered

Occupational safety, health & environmental management

Study Mode

One year part-time.

Location

Campus	Attendance	Mode
Hawkesbury Campus	Part Time	Multi Modal

Admission

Eligibility for admission to the Graduate Certificate in Science is based on the following requirements:

An undergraduate degree in any discipline

or

Five years full-time equivalent work experience in occupational health and safety, environmental management, occupational hygiene, climate change, natural resource management or biotechnology.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to UWS should also use the information provided on the UAC website.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and UWS.

Course Structure

Qualification for this award requires the successful completion of 40 credit points, including the units listed below.

Graduate Certificate in Science (generic option)

Qualification for this award requires the successful completion of 40 credit points, including the units listed below.

Choose one of

300396.2 Developing Professional Practice
300683.2 Principles and Practice of Biotechnology 1

Choose one of

300397.2 Perspectives of Sustainable Development
300678.2 Advanced Analytical Techniques

Two units chosen from the prescribed list of science units below.

Prescribed list of Science units

300677.2 Safety and Risk Management
300391.2 Occupational Health Management
300690.2 Environmental Assessment
300681.2 Climate Change Impacts
300686.2 Sustainable Resource Management
300679.2 Air, Water and Noise Management
300682.2 Occupational and Environmental Hygiene
300678.2 Advanced Analytical Techniques
300688.1 Noise Assessment and Control
300680.2 Biotechnology Analytical Techniques
300683.2 Principles and Practice of Biotechnology 1
300684.2 Principles & Practice of Biotechnology 2
300685.2 Special Issues in Science - PG

Note: 300685 Special Issues in Science - PG is only available to Masters students - permission of Director of Academic Program required for enrolment

400850.2 Professional Topic

Note: 400850 Professional Topic is only available to students who wish to pursue a research higher degree after graduation - permission of Head of Program required for enrolment)

Note: Enrolment in UWS units other than those listed above is possible with Head of Program permission.

Specialisation

The Specialisation will be offered in mulit-modal mode through a combination of compulsory on-campus workshops, facilitated on-campus tutorials (compulsory for International students; optional for domestic students - tutorial material and processes will be duplicated on vUWS so non-attending students are not disadvantaged) and extensive use of vUWS. For most units face-to-face on-campus attendance will be equivalent to 2 to 3 hours per week over a 14 week semester.

ST3013.1 Occupational Safety, Health & Environmental Management

The Occupational Safety, Health & Environmental Management specialisation provides advanced theoretical and practical knowledge in the occupational health, safety and environmental management field. It is most suited for students who are already working in this field, although can be undertaken by students in allied fields who want a career change to Health, Safety and Environment roles. Students will learn to critically evaluate the social, economic and environmental impacts of policy and management decisions and analyse current and emerging issues in health, safety and environmental management. They will also develop the skills to develop new or adapt current strategies and to take a leadership role in responding to change in this very dynamic and challenging field. Students enrolled in the Masters will be required to undertake a half year pilot research project and develop a change management strategy for a current OSHEM issue. The specialisation is offered in both full time and part time modes with a multimodal attendance pattern through a combination of compulsory on-campus workshops, facilitated on-campus tutorials, and extensive use of the UWS e-learning support system.

Unit Sets

Specialisation - Web Engineering

ST3006.1

Unit Set Structure

Students must complete the following four units

300437.2	XML and Web Services
300443.2	Web Engineering
300692.2	Workflow Management Systems
300697.2	Content Management Systems & Web Analytics

Specialisation - Networking

ST3007.1

Unit Set Structure

Choose four units from the following

300252.3	Advanced Topics in Networking
300255.2	Network Management
300256.2	Multimedia Communication Systems
300389.2	Wireless Networking
300696.2	Systems and Network Security

Specialisation - Occupational Safety, Health & Environmental Management

ST3013.1

The Occupational Safety, Health & Environmental Management specialisation provides advanced theoretical and practical knowledge in the occupational health, safety and environmental management field. It is most suited for students who are already working in this field, although can be undertaken by students in allied fields who want a career change to Health, Safety and Environment roles. Students will learn to critically evaluate the social, economic and environmental impacts of policy and management decisions and analyse current and emerging issues in health, safety and environmental management. They will also develop the skills to develop new or adapt current strategies and to take a leadership role in responding to change in this very dynamic and challenging field. Students enrolled in the Masters will be required to undertake a half year pilot research project and develop a change management strategy for a current OSHEM issue. The specialisation is offered in both full time and part time modes with a multimodal attendance pattern through a combination of compulsory on-campus workshops, facilitated on-campus tutorials, and extensive use of the UWS e-learning support system.

Unit Set Structure

Master of Science (Occupational Safety, Health & Environmental Management)

Qualification for this award requires the successful completion of 80 credit points as follows

300391.2	Occupational Health Management
300677.2	Safety and Risk Management
300396.2	Developing Professional Practice
300397.2	Perspectives of Sustainable Development
300742.2	Science and Health Research Project PG

Choose one of

300682.2	Occupational and Environmental Hygiene
300400.3	Managing for Sustainable Development

Choose one of

300398.2	Methods of Researching
300768.2	Methods of Scientific Researching

Note: 300742 Science and Health Research Project PG is a 20 credit point unit taken over two sessions - 10 credit points each session

Graduate Diploma in Science (Occupational Health & Environmental Management)

Students wishing to exit with Graduate Diploma need to complete 60 credit points as follows

300391.2	Occupational Health Management
300677.2	Safety and Risk Management
300396.2	Developing Professional Practice
300397.2	Perspectives of Sustainable Development

Choose one of

300682.2	Occupational and Environmental Hygiene
300400.3	Managing for Sustainable Development

Choose one of

300398.2	Methods of Researching
300768.2	Methods of Scientific Researching

Graduate Certificate in Science (Occupational Health & Environmental Management)

Students wishing to exit with Graduate Certificate need to complete 40 credit points as follows

300391.2	Occupational Health Management
300677.2	Safety and Risk Management
300396.2	Developing Professional Practice

Choose one of

300682.2	Occupational and Environmental Hygiene
300400.3	Managing for Sustainable Development

Specialisation - Biotechnology

ST3017.1

This specialisation aims to provide advanced education in biotechnology and to prepare students for diverse careers in this field. It is designed mainly for students who have a first degree in basic biological or chemical sciences but little prior education in biotechnology. Biotechnology applies scientific and engineering principles to the processing of material by biological agents to provide goods and services. The requirements for biotechnologists are as diverse as the purposes for which microbial, plant and animal cells have been harnessed to produce food, medicines and chemicals useful to mankind. This specialisation will encourage students to actively participate in the learning process. Opportunities for student planning and development of projects based upon a strong understanding of fundamental concepts and processes will be provided. Multidisciplinary knowledge and practical skills will be integrated to provide a hands-on problem solving approach. Students enrolled in the Masters will be required to undertake a full year biotechnology research project. It is offered in both full time and part time modes with compulsory on-campus attendance required.

Unit Set Structure

Master of Science (Biotechnology)

Qualification for this award requires the successful completion of 80 credit points as follows

300680.2 Biotechnology Analytical Techniques
300683.2 Principles and Practice of Biotechnology 1
300684.2 Principles & Practice of Biotechnology 2
300678.2 Advanced Analytical Techniques
300767.2 Science Research Project PG

Choose one of

300768.2 Methods of Scientific Researching
300398.2 Methods of Researching

Note: 300767 Science Research Project PG is a 30 credit point unit taken over two sessions - 15 credit points each session

Graduate Diploma in Science (Biotechnology)

Students wishing to exit with Graduate Diploma need to complete 60 credit points as follows

300680.2 Biotechnology Analytical Techniques
300683.2 Principles and Practice of Biotechnology 1
300684.2 Principles & Practice of Biotechnology 2
300678.2 Advanced Analytical Techniques

Choose one of

300768.2 Methods of Scientific Researching
300398.2 Methods of Researching

And one elective

Specialisation - Civil

ST3018.1

Location

Campus	Mode
Penrith Campus	Internal

Unit Set Structure

Students who wish to graduate with an Environmental specialisation must complete the four core units and four specialist units from the list below.

Core units

300513.2 Engineering Software Applications
300206.2 Sustainable Design
300597.2 Master Project 1
300598.2 Master Project 2

Environmental Specialist units

300605.2 Advanced Structural Design
300594.3 Advanced Structural Analysis
300595.2 Advanced Water Engineering
300604.2 Advanced Geotechnical Engineering

Specialisation - Environmental

ST3019.1

Location

Campus	Mode
Penrith Campus	Internal

Unit Set Structure

Students who wish to graduate with an Environmental specialisation must complete the four core units and four specialist units from the list below.

Core units

300513.2 Engineering Software Applications
300206.2 Sustainable Design
300597.2 Master Project 1
300598.2 Master Project 2

Environmental Specialist units

MI807A.2 Water and Wastewater Microbiology
300595.2 Advanced Water Engineering
300604.2 Advanced Geotechnical Engineering
300602.2 Advanced Environmental Engineering

Specialisation - Climate Change & Environmental Management

ST3020.1

Unit Set Structure

Master of Science (Climate Change and Environmental Management)

Qualification for this award requires the successful completion of 80 credit points as follows

300681.2	Climate Change Impacts
300686.2	Sustainable Resource Management
300396.2	Developing Professional Practice
300397.2	Perspectives of Sustainable Development
300400.3	Managing for Sustainable Development
300742.2	Science and Health Research Project PG

Choose one of

300398.2	Methods of Researching
300768.2	Methods of Scientific Researching

Note: 300742 Science and Health Research Project PG is a 20 credit point unit taken over two sessions - 10 credit points each session

Graduate Diploma in Science (Climate Change and Environmental Management)

Students wishing to exit with Graduate Diploma need to complete 60 credit points as follows

300681.2	Climate Change Impacts
300686.2	Sustainable Resource Management
300396.2	Developing Professional Practice
300397.2	Perspectives of Sustainable Development
300400.3	Managing for Sustainable Development

Choose one of

300398.2	Methods of Researching
300768.2	Methods of Scientific Researching

Specialisation - Computer

ST3021.1

Location

Campus	Mode
Penrith Campus	Internal

Unit Set Structure

Students who wish to graduate with a Computer specialisation must complete the four core units and four specialist units from the list below.

Core units

300513.2	Engineering Software Applications
300206.2	Sustainable Design
300597.2	Master Project 1
300598.2	Master Project 2

Computer Specialist units

Choose four of

300603.2	Advanced Control Systems
300173.2	Advanced Data Networks
300174.2	Advanced Digital Systems
300196.2	Personal Communication Systems
300193.2	Multimedia Engineering
300515.2	Instrumentation and Measurement (PG)

Specialisation - Electrical

ST3022.1

Location

Campus	Mode
Penrith Campus	Internal

Unit Set Structure

Students who wish to graduate with an Electrical specialisation must complete the four core units and four specialist units from the list below.

Core units

300513.2	Engineering Software Applications
300206.2	Sustainable Design
300597.2	Master Project 1
300598.2	Master Project 2

Electrical Specialist units

Choose four of

300603.2	Advanced Control Systems
300173.2	Advanced Data Networks
300197.2	Power System Planning and Economics
300596.2	Advanced Signal Processing
300601.2	Advanced Electrical Machines and Drives
300515.2	Instrumentation and Measurement (PG)

Specialisation - Telecommunication

ST3023.1

Location

Campus	Mode
Penrith Campus	Internal

Unit Set Structure

Students who wish to graduate with a Telecommunication specialisation must complete the four core units and four specialist units from the list below.

Core units

300513.2 Engineering Software Applications
300206.2 Sustainable Design
300597.2 Master Project 1
300598.2 Master Project 2

Telecommunication Specialist units

300173.2 Advanced Data Networks
300174.2 Advanced Digital Systems
300193.2 Multimedia Engineering
300196.2 Personal Communication Systems
300596.2 Advanced Signal Processing
300515.2 Instrumentation and Measurement (PG)

Specialisation - Mechatronic

ST3024.1

Location

Campus	Mode
Penrith Campus	Internal

Unit Set Structure

Students who wish to graduate with a Mechatronic specialisation must complete the four core units and four specialist units from the list below.

Core units

300513.2 Engineering Software Applications
300206.2 Sustainable Design
300597.2 Master Project 1
300598.2 Master Project 2

Mechatronic Specialist units

300599.2 Advanced Robotics
300600.2 Mechatronic System Design
300603.2 Advanced Control Systems
300601.2 Advanced Electrical Machines and Drives

Specialisation - Aged Care Management

ST4001.1

Staff working in health and aged care organisations, charitable and private sectors especially those in supervisory and management positions will find this exposes them to contemporary issues in aged care, allowing them to up-skill management knowledge to position themselves in the forefront of innovation in the delivery and organisation of quality aged care. Specialty units include Health and Socio-Political Issues in Aged Care, Leadership in Quality & Safety in Health Care and Health Workforce Planning. Students have an opportunity to undertake Professional Topic or an elective.

Location

Campus	Mode
Parramatta Campus	Internal

Unit Set Structure

Professional Accreditation

Graduates of the Master of Health Science or Graduate Diploma of Health Science with specialisations in Health Services Management, Aged Care Management or Health Planning will be eligible for professional accreditation with the Australasian College of Health Service Management (ACHSE).

Master of Health Science (Aged Care Management)

Qualification for this award requires the successful completion of 80 credit points including the units listed in the recommended sequence below.

Full-time (Start year intake)

Autumn session

400845.2 Health Financial Management
400837.2 Health and Socio-political Issues in Aged Care
400843.2 Health Workforce Planning

Choose one of

400416.2 Public Health, Policy and Society
400238.3 Policy, Power and Politics in Health Care Provision

Spring session

300398.2 Methods of Researching
400778.2 Leadership and the Development of Organisational Capacity

Students may exit with a Graduate Diploma in Health Science (Aged Care Management) at this point.

400777.3 Leadership for Quality and Safety in Health Care

Choose one of

400850.2 Professional Topic

Or one elective

Part-time (Start year intake)

Year 1

Autumn session

400837.2 Health and Socio-political Issues in Aged Care

Choose one of

400416.2 Public Health, Policy and Society

400238.3 Policy, Power and Politics in Health Care Provision

Spring session

300398.2 Methods of Researching
400778.2 Leadership and the Development of Organisational Capacity

Year 2

Autumn session

400845.2 Health Financial Management
400843.2 Health Workforce Planning

Students may exit with a Graduate Diploma in Health Science (Aged Care Management) at this point.

Spring session

400777.3 Leadership for Quality and Safety in Health Care

Choose one of

400850.2 Professional Topic

Or one elective

Full-time (Mid-year intake)

Spring session

300398.2 Methods of Researching
400778.2 Leadership and the Development of Organisational Capacity
400777.3 Leadership for Quality and Safety in Health Care

Choose one of

400850.2 Professional Topic

Or one elective

Autumn session

400845.2 Health Financial Management
400837.2 Health and Socio-political Issues in Aged Care
400843.2 Health Workforce Planning

Choose one of

400416.2 Public Health, Policy and Society
400238.3 Policy, Power and Politics in Health Care Provision

Part-time (Mid-year intake)

Year 1

Spring session

300398.2 Methods of Researching
400778.2 Leadership and the Development of Organisational Capacity

Autumn session

400837.2 Health and Socio-political Issues in Aged Care

Choose one of

400416.2 Public Health, Policy and Society
400238.3 Policy, Power and Politics in Health Care Provision

Year 2

Spring session

400777.3 Leadership for Quality and Safety in Health Care

Choose one of

400850.2 Professional Topic

Or one elective

Autumn session

400845.2 Health Financial Management
400843.2 Health Workforce Planning

Specialisation - Health Planning

ST4002.1

All managers undertake forward planning to proactively manage future services and identify workforce and facility requirements. This specialisation keeps students up to date with current forward planning approaches and initiatives in health and other sectors that work with health. Students are exposed to the process of planning, how to set goals and objectives, monitor and evaluate performance outcomes. Current issues are explored in the specialty units Health Services and Facilities Planning, Workforce Planning and also Quality and Safety in Health Care.

Location

Campus	Mode
Parramatta Campus	Internal

Unit Set Structure

Professional Accreditation

Graduates of the Master of Health Science or Graduate Diploma of Health Science with specialisations in Health Services Management, Aged Care Management or Health Planning will be eligible for professional accreditation with the Australasian College of Health Service Management (ACHSE).

Master of Science (Health Planning)

Qualification for this award requires the successful completion of 80 credit points including the units listed in the recommended sequence below.

Full-time (Start year intake)

Autumn session

400843.2 Health Workforce Planning
400845.2 Health Financial Management
300398.2 Methods of Researching

Choose one of

400416.2 Public Health, Policy and Society
400238.3 Policy, Power and Politics in Health Care Provision

Spring session

400844.2 Health Services and Facilities Planning
400846.2 Building Organisational Capacity in Health Care

Students may exit with a Graduate Diploma in Health Science (Health Planning) at this point.

400777.3 Leadership for Quality and Safety in Health Care

Choose one of

400850.2 Professional Topic

Or one elective

Part-time (Start year intake)

Year 1

Autumn session

400843.2 Health Workforce Planning

Choose one of

400416.2 Public Health, Policy and Society
400238.3 Policy, Power and Politics in Health Care Provision

Spring session

300398.2 Methods of Researching
400844.2 Health Services and Facilities Planning

Year 2

Autumn session

400846.2 Building Organisational Capacity in Health Care
400845.2 Health Financial Management

Students may exit with a Graduate Diploma in Health Science (Health Planning) at this point.

Spring session

400777.3 Leadership for Quality and Safety in Health Care

Choose one of

400850.2 Professional Topic

Or one elective

Full-time (Mid-year intake)

Spring session

300398.2 Methods of Researching
400844.2 Health Services and Facilities Planning
400777.3 Leadership for Quality and Safety in Health Care
400846.2 Building Organisational Capacity in Health Care

Autumn session

400843.2 Health Workforce Planning
400845.2 Health Financial Management

Choose one of

400416.2 Public Health, Policy and Society
400238.3 Policy, Power and Politics in Health Care Provision

Choose one of

400850.2 Professional Topic

Or one elective

Part-time (Mid-year intake)

Year 1

Spring session

300398.2 Methods of Researching
400844.2 Health Services and Facilities Planning

Autumn session

400843.2 Health Workforce Planning

Choose one of

400416.2 Public Health, Policy and Society
400238.3 Policy, Power and Politics in Health Care Provision

Year 2

Spring session

400777.3 Leadership for Quality and Safety in Health Care
400846.2 Building Organisational Capacity in Health Care

Autumn session

400845.2 Health Financial Management

Choose one of

400850.2 Professional Topic

Or one elective

Specialisation - International Health

ST4003.1

This specialisation broadens the public health approach of looking at all determinants of health, which include broader social and environmental factors in addition to physical risk factors to include international health studies. For this, students will study a wide range of evaluation processes and research methods such as policy analysis, economic evaluation, epidemiology and qualitative methods. The focus of practical skills is in Communicable Diseases, and students will integrate research, analytical and practical skills in the evaluation of contemporary public health issues.

Location

Campus	Mode
Parramatta Campus	Internal

Unit Set Structure

Master of Health Science (International Health)

Qualification for this award requires the successful completion of 80 credit points including the units listed in the recommended sequence below.

Full-time (Start year intake)

Autumn session

400416.2 Public Health, Policy and Society
400846.2 Building Organisational Capacity in Health Care
300398.2 Methods of Researching
400841.2 A Global Perspective on Social Determinants of Health

Spring session

400840.3 Communicable Diseases
400967.2 Health Economics and Comparative Health Systems

Students may exit with a Graduate Diploma in Health Science (International Health) at this point.

400417.2 Epidemiology and Quantitative Methods

Choose one of

400850.2 Professional Topic

Or one elective

Part-time (Start year intake)

Year 1

Autumn session

400416.2 Public Health, Policy and Society
400841.2 A Global Perspective on Social Determinants of Health

Spring session

400840.3 Communicable Diseases
400967.2 Health Economics and Comparative Health Systems

Year 2

Autumn session

400846.2 Building Organisational Capacity in Health Care
300398.2 Methods of Researching

Students may exit with a Graduate Diploma in Health Science (International Health) at this point.

Spring session

400417.2 Epidemiology and Quantitative Methods

Choose one of

400850.2 Professional Topic

Or one elective

Full-time (Mid-year intake)

Spring session

400840.3 Communicable Diseases
400967.2 Health Economics and Comparative Health Systems
400417.2 Epidemiology and Quantitative Methods

Choose one of

400850.2 Professional Topic

Or one elective

Autumn session

400416.2 Public Health, Policy and Society
400846.2 Building Organisational Capacity in Health Care
300398.2 Methods of Researching
400841.2 A Global Perspective on Social Determinants of Health

Part-time (Mid-year intake)

Year 1

Spring session

400840.3 Communicable Diseases
400967.2 Health Economics and Comparative Health Systems

Autumn session

400416.2 Public Health, Policy and Society
400841.2 A Global Perspective on Social Determinants of Health

Year 2

Spring session

400417.2 Epidemiology and Quantitative Methods

Choose one of

400850.2 Professional Topic

Or one elective

Autumn session

400846.2 Building Organisational Capacity in Health Care
300398.2 Methods of Researching

Specialisation - Health Promotion

ST4004.1

In addition to the four core units, this specialty includes Health Promotion Health Advancement and A Global Perspective on Social Determinants of Health. Students are taken through the process of health needs analysis, risk and protective factors, planning, writing grant applications and evaluating interventions, based on identified competency requirements.

Location

Campus	Mode
Parramatta Campus	Internal

Unit Set Structure

Master of Health Science (Health Promotion)

Qualification for this award requires the successful completion of 80 credit points including the units listed in the recommended sequence below.

Full-time (Start year intake)

Autumn session

400416.2 Public Health, Policy and Society
400845.2 Health Financial Management
300398.2 Methods of Researching
400841.2 A Global Perspective on Social Determinants of Health

Spring session

400418.2 Health Advancement and Health Promotion
400846.2 Building Organisational Capacity in Health Care

Students may exit with a Graduate Diploma in Health Science (Health Promotion) at this point.

Spring session

Choose one of

400850.2 Professional Topic

Or one elective

Elective

Part-time (Start year intake)

Year 1

Autumn session

400416.2 Public Health, Policy and Society
300398.2 Methods of Researching

Spring session

400418.2 Health Advancement and Health Promotion
400846.2 Building Organisational Capacity in Health Care

Year 2

Autumn session

400845.2 Health Financial Management
400841.2 A Global Perspective on Social Determinants of Health

Students may exit with a Graduate Diploma in Health Science (Health Promotion) at this point.

Choose one of

400850.2 Professional Topic

Or one elective

Elective

Full-time (Mid-year intake)

Spring session

400418.2 Health Advancement and Health Promotion
400846.2 Building Organisational Capacity in Health Care

Choose one of

400850.2 Professional Topic

Or one elective

Elective

Autumn session

400416.2 Public Health, Policy and Society
400845.2 Health Financial Management
300398.2 Methods of Researching
400841.2 A Global Perspective on Social Determinants of Health

Part-time (Mid-year intake)

Year 1

Spring session

400418.2 Health Advancement and Health Promotion

400846.2 Building Organisational Capacity in Health Care

Autumn session

400416.2 Public Health, Policy and Society
300398.2 Methods of Researching

Year 2

Spring session

Choose one of

400850.2 Professional Topic

Or one elective

Elective

Autumn session

400845.2 Health Financial Management
400841.2 A Global Perspective on Social Determinants of Health

Specialisation - Occupational Health & Safety

ST4005.1

Specialisation units include Occupational Health Management and Safety and Risk Management which focus on the practice of occupational health within national and international frameworks. It explores issues such as the physical, social and mental impact of the occupational environment on health. Strategies for the management of occupational health are examined, together with methods of monitoring and evaluating occupational health programs. Students have the opportunity to develop a safety systems approach concentrating on hazard identification, risk assessment and devising control measures incorporating safety management principles. The legal underpinning of OHS requirements at the workplace are also covered. Students may select two electives to suit their career aspirations.

Location

Campus	Mode
Parramatta Campus	Internal

Unit Set Structure

Master of Health Science (Occupational Health & Safety)

Qualification for this award requires the successful completion of 80 credit points including the units listed in the recommended sequence below.

Full-time (Start year intake)

Autumn session

400416.2 Public Health, Policy and Society
400845.2 Health Financial Management
300391.2 Occupational Health Management
300677.2 Safety and Risk Management

Spring session

300398.2 Methods of Researching
400846.2 Building Organisational Capacity in Health Care

Students may exit with a Graduate Diploma in Health Science (Occupational Health & Safety) at this point.

Spring session

Choose one of

400850.2 Professional Topic

Or one elective

Elective

Part-time (Start year intake)

Year 1

Autumn session

400416.2 Public Health, Policy and Society
300391.2 Occupational Health Management

Spring session

300398.2 Methods of Researching
400846.2 Building Organisational Capacity in Health Care

Year 2

Autumn session

400845.2 Health Financial Management

And one elective

Students may exit with a Graduate Diploma in Health Science (Occupational Health & Safety) at this point.

Spring session

300677.2 Safety and Risk Management

Choose one of

400850.2 Professional Topic

Or one elective

Full-time (Mid-year intake)

Spring session

300398.2 Methods of Researching
400846.2 Building Organisational Capacity in Health Care
300677.2 Safety and Risk Management

And one elective

Autumn session

400416.2 Public Health, Policy and Society

400845.2 Health Financial Management
300391.2 Occupational Health Management

Choose one of

400850.2 Professional Topic

Or one elective

Part-time (Mid-year intake)

Year 1

Spring session

300398.2 Methods of Researching
400845.2 Health Financial Management

Autumn session

400416.2 Public Health, Policy and Society
300391.2 Occupational Health Management

Year 2

Spring session

400846.2 Building Organisational Capacity in Health Care

And one elective

Autumn session

300677.2 Safety and Risk Management

Choose one of

400850.2 Professional Topic

Or one elective

Specialisation - Occupational & Environmental Hygiene

ST4006.1

The specialisation includes the units Occupational and Enviro Hygiene also Air Water and Noise Management. They show students the methods involved in measuring potential hazards, how to compare results with current standards before recommending methods of control. Hazards such as chemical and biological pollutants, ergonomics, noise, heat, cold and lighting in both the workplace and general indoor environment, and the various methods are considered. A range of skills required to assess the environment in relation to air, water and noise and underpinning legislative framework are explored.

Location

Campus	Mode
Parramatta Campus	Internal

Unit Set Structure

Master of Health Science (Occupational & Environmental Hygiene)

Qualification for this award requires the successful completion of 80 credit points including the units listed in the recommended sequence below.

Full-time (Start year intake)

Autumn session

400416.2 Public Health, Policy and Society
400845.2 Health Financial Management
300679.2 Air, Water and Noise Management
300682.2 Occupational and Environmental Hygiene

Spring session

300398.2 Methods of Researching
400846.2 Building Organisational Capacity in Health Care

Students may exit with a Graduate Diploma in Health Science (Occupational & Environmental Hygiene Specialisation) at this point.

Choose one of

400850.2 Professional Topic

Or one elective

Elective

Part-time (Start year intake)

Year 1

Autumn session

400416.2 Public Health, Policy and Society
400845.2 Health Financial Management

Spring session

300398.2 Methods of Researching
300679.2 Air, Water and Noise Management

Year 2

Autumn session

400846.2 Building Organisational Capacity in Health Care
300682.2 Occupational and Environmental Hygiene

Students may exit with a Graduate Diploma in Health Science (Occupational & Environmental Hygiene) at this point.

Spring session

Choose one of

400850.2 Professional Topic

Or one elective

Elective

Full-time (Mid-year intake)

Spring session

300398.2 Methods of Researching
400846.2 Building Organisational Capacity in Health Care
300679.2 Air, Water and Noise Management

Choose one of

400850.2 Professional Topic

Or one elective

Autumn session

400416.2 Public Health, Policy and Society
300682.2 Occupational and Environmental Hygiene
400845.2 Health Financial Management

And one elective

Part-time (Mid-year intake)

Year 1

Spring session

300398.2 Methods of Researching
400846.2 Building Organisational Capacity in Health Care

Autumn session

400416.2 Public Health, Policy and Society
400845.2 Health Financial Management

Year 2

Spring session

300679.2 Air, Water and Noise Management

And one elective

Autumn session

300682.2 Occupational and Environmental Hygiene

Choose one of

400850.2 Professional Topic

Or one elective

Specialisation - Research Studies

ST4010.1

This specialty is designed for students wishing to proceed to higher degree in research. It includes specialty units in Research Philosophy and Methodology and a 20 credit point unit Advanced Thesis Preparation, in addition to the core unit of methods of Researching. This helps students understand how to identify a research problem critically evaluated the literature and prepare a research proposal. It allows students to become familiar with the requirements of thesis writing from an early stage and develops an appreciation for ethical issues in research in higher degrees.

Location

Campus	Mode
Parramatta Campus	Internal

Unit Set Structure

Master of Health Science (Research Studies)

Qualification for this award requires the successful completion of 80 credit points including the units listed in the recommended sequence below.

Full-time (Start year intake)

Autumn session

400416.2 Public Health, Policy and Society
400845.2 Health Financial Management
300398.2 Methods of Researching
300742.2 Science and Health Research Project PG

Note: 300742 - Science and Health Research Project PG is a 20 credit point unit taken over Autumn and Spring sessions

Spring session

400846.2 Building Organisational Capacity in Health Care
300742.2 Science and Health Research Project PG
400850.2 Professional Topic

And one elective

Part-time (Start year intake)

Year 1

Autumn session

400416.2 Public Health, Policy and Society
400845.2 Health Financial Management

Spring session

300398.2 Methods of Researching
400850.2 Professional Topic

Year 2

Autumn session

400846.2 Building Organisational Capacity in Health Care
300742.2 Science and Health Research Project PG

Spring session

300742.2 Science and Health Research Project PG

Ane one elective

Specialisation - Clinical Teaching

ST4011.1

The Clinical Teaching specialisation provides students with an opportunity to gain formal education in clinical teaching to either enhance their existing teaching experience or provide skill development in this area. Graduates who complete the Clinical Teaching specialisation will be prepared to take on a leadership role in clinical teaching in the roles such as clinical nurse educator, nurse educator, clinical nurse specialist and undergraduate placement facilitator.

Location

Campus	Mode
Parramatta Campus	Internal

Unit Set Structure

Students must complete 80 credit points including the units listed in the recommended sequence below.

Recommended Sequence

Full-time

Year 1

Autumn session

400235.2	Leadership in Clinical Practice
400238.3	Policy, Power and Politics in Health Care Provision
400974.1	Clinical Teaching for Learning

And one elective

Spring session

400206.2	Evidence-based Nursing
400973.1	Clinical Teaching and Professional Development
400807.2	Transforming Nursing Practice

And one elective

Part-time

Year 1

Autumn session

400235.2	Leadership in Clinical Practice

And one elective

Spring session

400973.1	Clinical Teaching and Professional Development
400206.2	Evidence-based Nursing

Year 2

Autumn session

400238.3	Policy, Power and Politics in Health Care Provision
400974.1	Clinical Teaching for Learning

Spring session

400807.2	Transforming Nursing Practice

And one elective

Specialisation - Research

ST4012.1

The Research specialisation provides students with foundation level research training that will support them to increase their involvement in research within the clinical setting or seek admission to a research higher degree. Graduates who complete the Research specialisation will be prepared to function as an active member of a research team or seek admission to a higher degree research program.

Location

Campus	Mode
Parramatta Campus	External

Unit Set Structure

Students must complete 80 credit points including the units listed in the recommended sequence below.

Recommended Sequence

Full-time

Year 1

Autumn session

400235.2	Leadership in Clinical Practice
400238.3	Policy, Power and Politics in Health Care Provision
400200.2	Applied Nursing Research

And one elective

Spring session

400975.1	Ethics in Health Research
400206.2	Evidence-based Nursing
400807.2	Transforming Nursing Practice

And one elective

Part-time

Year 1

Autumn session

400235.2 Leadership in Clinical Practice

And one elective

Spring session

400975.1 Ethics in Health Research
400206.2 Evidence-based Nursing

Year 2

Autumn session

400238.3 Policy, Power and Politics in Health Care Provision
400200.2 Applied Nursing Research

Spring session

400807.2 Transforming Nursing Practice

And one elective

Specialisation - Health Services Management

ST4013.1

This specialisation is designed for managers who require skills in contemporary management and their application in the health care setting. Particular emphasis is placed on critical and analytic skills in policy analysis, economic evaluation and epidemiology, thus providing graduates with the ability to respond creatively to changes as they arise. Health managers need to be current with developments in the general business area so potential in the health care setting can be evaluated and appropriate initiatives implemented. Particular specialty units include Strategy Analysis, Decision Making Human Resource Management, also Quality and Safety in Health Care.

Location

Campus	Mode
Parramatta Campus	External
Parramatta Campus	Internal

Unit Set Structure

Professional Accreditation

Graduates of the Master of Health Science or Graduate Diploma of Health Science with specialisations in Health Services Management, Aged Care Management or Health Planning will be eligible for professional accreditation with the Australasian College of Health Service Management (ACHSE).

Master of Health Science (Health Services Management)

Qualification for this award requires the successful completion of 80 credit points including the units listed in the recommended sequence below.

Full-time (Start year intake)

Autumn session

400846.2 Building Organisational Capacity in Health Care
400843.2 Health Workforce Planning
400845.2 Health Financial Management

Choose one of

400416.2 Public Health, Policy and Society
400238.3 Policy, Power and Politics in Health Care Provision

Spring session

51109.3 Strategic Analysis and Decision-Making
300398.2 Methods of Researching

Students may exit with a Graduate Diploma in Health Science (Health Services Management) at this point.

400777.3 Leadership for Quality and Safety in Health Care

Choose one of

400850.2 Professional Topic

Or one elective

Part-time (Start year intake)

Year 1

Autumn session

400845.2 Health Financial Management

Choose one of

400416.2 Public Health, Policy and Society
400238.3 Policy, Power and Politics in Health Care Provision

Spring session

51109.3 Strategic Analysis and Decision-Making
300398.2 Methods of Researching

Year 2

Autumn session

400846.2 Building Organisational Capacity in Health Care
400843.2 Health Workforce Planning

Students may exit with a Graduate Diploma in Health Science (Health Services Management) at this point.

Spring session

400777.3 Leadership for Quality and Safety in Health Care

Choose one of

400850.2 Professional Topic

Or one elective

Full-time (Mid-year intake)

Spring session

300398.2 Methods of Researching
51109.3 Strategic Analysis and Decision-Making
400777.3 Leadership for Quality and Safety in Health Care

Choose one of

400850.2 Professional Topic

Or one elective

Autumn session

400845.2 Health Financial Management
400846.2 Building Organisational Capacity in Health Care
400843.2 Health Workforce Planning

Choose one of

400416.2 Public Health, Policy and Society
400238.3 Policy, Power and Politics in Health Care Provision

Part-time (Mid-year intake)

Year 1

Spring session

300398.2 Methods of Researching
51109.3 Strategic Analysis and Decision-Making

Autumn session

400845.2 Health Financial Management

Choose one of

400416.2 Public Health, Policy and Society
400238.3 Policy, Power and Politics in Health Care Provision

Year 2

Spring session

400777.3 Leadership for Quality and Safety in Health Care

Choose one of

400850.2 Professional Topic

Or one elective

Autumn session

400846.2 Building Organisational Capacity in Health Care
400843.2 Health Workforce Planning

Units

400841.2 A Global Perspective on Social Determinants of Health

Credit Points 10 **Level** 7

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Evidence is mounting that the health of individuals, groups and whole populations is significantly determined by social factors - the social determinants. The related research has its origins in concern for the growing inequalities in health both within and between countries. This unit examines the framework of the social determinants of health in a global perspective and includes a reflection on the phenomenon of globalisation and its impact, both positive and negative on people's health. Students will critically reflect on this relatively new and emerging body of knowledge and research which clearly situates the maintenance of health and healthy societies within their socioeconomic and socio-cultural contexts. They will also examine implications for policy, health systems and different groups within society.

400578.2 Advanced Acupuncture

Credit Points 10 **Level** 7

Assumed Knowledge

Equivalent to undergraduate studies in acupuncture.

.....

This is a practical unit that helps strengthen graduate acupuncture skills in the management of a range of illnesses. This unit will deepen the practitioners' understanding of the ancient acupuncture theories and techniques and their application in contemporary practice. Practitioners will extend their understanding of different theoretical approaches in the design of acupuncture point prescriptions and examine the strengths and weaknesses of each approach. Evidence in support of acupuncture practice will be explored.

300678.2 Advanced Analytical Techniques

Credit Points 10 **Level** 7

Assumed Knowledge

Basic understanding of chemistry, physics, biology, and mathematics.

.....

The unit will introduce students to the underpinning theory, practice and application of a range of advanced analytical techniques used in science and technology. These will include neutron and X ray scattering/reflectometry, vibrational spectroscopy, multidimensional NMR, confocal microscopy, GC MS, multidimensional chromatography and associated modelling methods. Students will explore the strengths and weaknesses of the various methods, and develop expertise in building complementary suites of techniques for addressing real world problems in science and technology.

300603.2 Advanced Control Systems

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge is assumed in Continuous time control systems, the use of Laplace and Z-transforms, Analog to digital, digital to analog conversion, Vector matrix difference equations, State variable models and familiarity with Matlab or similar software

Incompatible Units

300211 - Digital Control, 300172 - Advanced Control Systems

Special Requirements

Students must have appropriate background and have competence in the use of test equipment, components and data sheets.

.....

This unit covers continuous and discrete control systems. It reviews and builds on the fundamental concepts of the theory of feedback in continuous and discrete time to examine the analysis and design of advanced continuous and discrete time linear control systems. Transfer function and state variable methods are employed. Instruction makes use of extensive experimental tasks. There is also considerable use of Matlab simulations.

300173.2 Advanced Data Networks

Credit Points 10 **Level** 7

Assumed Knowledge

Communication Systems / Digital Communication

.....

This unit covers all major network technologies: asynchronous transfer mode (ATM), Internet, and telephony. Essential networking topics such as protocol layering, multiple access, switching, scheduling, routing, congestion control, error and flow control, and network security are covered in detail. An engineering approach is taken to provide insight into network design.

300174.2 Advanced Digital Systems

Credit Points 10 **Level** 7

Assumed Knowledge

Electronics

.....

This unit extends work on modern digital design techniques and the process of creating a digital circuits, from design specifications to the implementation of more complex digital circuits and systems. Topics include: a review of logic design techniques; hardware description languages (HDL); digital circuit modelling using an HDL; logic simulations; state-of-the-art digital circuit design tools; programmable logic devices; digital circuit implementation rapid circuit prototyping; and integration of HDL, a digital circuit design tool and programmable logic devices in a single design process.

300601.2 Advanced Electrical Machines and Drives

Credit Points 10 **Level** 7

Assumed Knowledge

Electric Circuits and Basic Electro magnetics.

Incompatible Units

300208 - Variable Speed Electric Drives, 300204 - Special Electrical Machines

.....

The subject covers various types of electrical motors and drive systems, their applications and control. The unit aims to introduce an advanced study of electrical machines and drives. It also covers application considerations and modern developments in high performance drive systems. This course covers various types of the speed control, the starting, the braking and the dynamics of different electrical machines and drives.

300602.2 Advanced Environmental Engineering

Credit Points 10 **Level** 7

Assumed Knowledge

University level Mathematics, Chemistry and Fluid Mechanics.

.....

The unit provides advanced materials on ecological sustainability (e.g. life cycle analysis of water sensitive urban design components, water recycling and reuse and rainwater tanks), water quality modelling (stormwater pollution build up and washoff and contaminant transport in natural rivers) and wastewater treatment using traditional and new techniques. This involves application of software packages and computer programs to analyse and design a number of real world environmental engineering projects. The unit is delivered on a project-based learning mode.

300604.2 Advanced Geotechnical Engineering

Credit Points 10 **Level** 7

Assumed Knowledge

Fundamental knowledge of soil mechanics.

Equivalent Units

300520 - Foundation Engineering (PG)

.....

This unit will provide an overview of soil mechanics concepts required for the solution of practical geotechnical engineering problems. Students will be taught soil and foundation analysis including design techniques. The topics will cover shallow foundations, pile foundations, the stability of earth retaining structures, excavations, soft soils, groundwater flow and stability of slopes. Practical engineering cases will be emphasized.

400859.2 Advanced Mental Health Nursing Clinical Practice 1

Credit Points 20 **Level** 7

Assumed Knowledge

Registered nurse students are expected to be working at an advanced practice level in a mental health setting and thus to have knowledge of a range of assessment and clinical intervention skills and knowledge commensurate with their clinical role in this area.

Prerequisite

400228.3 Assessment for Advanced Practice Mental Health Nurses AND **400858.3** Psychopharmacology For Advanced Practice Mental Health Nurses

Incompatible Units

400229 - Advanced Mental Health Nursing Clinical Practice 1

Special Requirements

Students must be registered nurses working in mental health services at an advanced clinical practice level, must nominate a clinical supervisor and must nominate a clinical panel.

.....

Students are required to demonstrate the capacity to work autonomously in a mental health setting and to be able to utilise various forms of supervision. Students undertake at least 150 hours supervised advanced practice in assessment, treatment planning and provision of care for clients in a mental health setting. Supervision is provided by a primary supervisor/mentor/assessor and a multidisciplinary clinical panel who can support and review the student's work in respect of working at an advanced level of clinical practice. The requirement for primary supervision and a review panel is mandated by the NSW Nurses and Midwives Board.

400860.2 Advanced Mental Health Nursing Clinical Practice 2

Credit Points 20 **Level** 7

Assumed Knowledge

This is an advanced level clinical nursing unit. Students are expected to be working in situations where they can demonstrate this level of practice. They will have advanced skills in mental health nursing assessment, clinical decision-making and treatment planning; knowledge of mental disorders and illnesses; human response to mental illness; the development of relationships with people with mental illness and their families; and a range of treatments for mental illness.

Prerequisite

400228.3 Assessment for Advanced Practice Mental Health Nurses AND **400858.3** Psychopharmacology For Advanced Practice Mental Health Nurses AND **400859.2** Advanced Mental Health Nursing Clinical Practice 1

Incompatible Units

400231 - Advanced Mental Health Nursing Clinical Practice 2

Special Requirements

Students are working in mental health services at an advanced clinical practice level, are required to have previously nominated a Primary Supervisor/Mentor/ Assessor and a clinical support group.

.....

Students are required to demonstrate the capacity to work autonomously in a mental health setting and to be able to utilise supervision to support achievement of unit learning objectives. Students undertake at least 150 hours supervised advanced clinical practice in assessment, treatment planning and provision of care for clients in a mental health setting. Clinical practice setting supervision is provided by a Primary Supervisor/Mentor/Assessor and a multidisciplinary clinical support group who will support and review the student's work in respect of working at an advanced level of clinical practice towards the attainment of a Nurse Practitioner qualification. A clinical assessment peer review panel that complies with NMB guidelines will be convened at the end of the session to assess the student's knowledge, clinical decision-making, understanding of therapeutic interventions including pharmacological and non-pharmacological agents, as well as their capacity to meet all requirements of the National Competency Standards for the Nurse Practitioner.

400834.1 Advanced practice: Infant and Child feeding and Nutrition

Credit Points 10 **Level** 7

Assumed Knowledge

Basics of breastfeeding including techniques for positioning and attachment and common breastfeeding problems; socio-cultural and political context of infant feeding; normal newborn behaviour, infant-parent attachment, factors that influence the transition to parenthood and parenting styles; skills required to critcially appraise research literature and high level communication skills and capacity to work in partnership with families.

Special Requirements

Registered Nurse, Registered Midwife or health professional due to public safety issues.

.....

This unit provides students with advanced theoretical knowledge around infant and young child feeding. The unit is predominantly theoretical although students will also be expected to gain practical skills including developing the capacity to undertake comprehensive breastfeeding assessments and assessment of nutritional status in children 0 to 5 years of age. Topics covered include management of complex breastfeeding problems and skills to support women who have unexpected birth outcomes with breastfeeding; the impact of acute and chronic infant and childhood illness on nutritional status and feeding; evidence based strategies and approaches to facilitate good nutritional practices including breastfeeding among disadvantaged and vulnerable populations and working effectively in multidisciplinary teams and with peer or volunteer support groups to promote and support healthy infant and young child feeding practices. This unit provides students with the theoretical background required to undertake the examination set by the International Board of Clinical Lactation Consultants. There are 120 hours of theoretical content of which approximately 90 hours is directly related to breastfeeding and human lactation. The role of the lactation consultant and legal and ethical issue are addressed for those who wish to work towards this exam.

300599.2 Advanced Robotics

Credit Points 10 **Level** 7

Assumed Knowledge

Basic knowledge in mechanics.

Incompatible Units

300176 - Advanced Robotics, 300192 - Mobile Robotic Systems

.....

To develop an understanding of the advanced concepts involved in Robotics. The kinematics, dynamics, control and sensing aspects in robotics will be studied. In addition, the current development in the mobile robotics area will be introduced. There will be a considerable use of MATLAB in the unit.

300596.2 Advanced Signal Processing

Credit Points 10 **Level** 7

Assumed Knowledge

Engineering mathematics, circuit theory, signals and systems.

Equivalent Units

300200 - Signal Processing 1

.....

This unit covers the principles and techniques in signal processing. Topics include sampling and quantisation of analogue signals, analysis of digital signals in the time domain and frequency domain, digital filter design, multi-rate signal processing, signal processing hardware and finite word-length effects in hardware implementation. Students develop skills of analysing and designing digital signal processing systems.

300594.3 Advanced Structural Analysis

Credit Points 10 **Level** 7

Assumed Knowledge

Student must have knowledge in engineering mathematics, engineering mechanics at intermediate level and structural analysis at fundamental level.

Incompatible Units

300205 - Linear and Nonlinear Analysis of Structures, 300367 - Advanced Structural Engineering, 300195 - Numerical and Finite Element Methods

.....

This unit introduces students to the aspects of structural analysis of beams, trusses, frames and plates. It covers several displacement based methods for the analysis of trusses, beams and frames, i.e. slope deflection method and matrix method. The basic concepts of plate bending analysis will be discussed. This unit aims to teach students

to master necessary skills in structural analysis as well as skills in using computer software to analyse complex structures.

300605.2 Advanced Structural Design

Credit Points 10 **Level** 7

Assumed Knowledge

Students must have knowledge in engineering mechanics and structural analysis at intermediate level.

Incompatible Units

88131 - Concrete Structures (UG), 88121 - Steel Structures (UG)

.....

This unit introduces students to advanced topics in the structural design of reinforced concrete, pre-stressed concrete and steel structures. It will discuss the stiffness, stability and strength of structural elements and structural systems composed of these materials.

300694.2 Advanced Topics in ICT

Credit Points 10 **Level** 7

Assumed Knowledge

300693 Web Technologies and 300695 Network Technology are the two core units for Master of Information and Communications Technologies. Without the basic understanding of these technologies, students will not be able to deal with the advanced topics.

Prerequisite

300693.2 Web Technologies AND **300695.2** Network Technologies

Special Requirements

Students must be enrolled in a postgraduate course.

.....

The information and communications technologies are advancing at an ever-increasing rate. The whole world is now interconnected. The World Wide Web community is actively engaged in developing the next generation of the Web, called Web 2.0. Social networking on the Internet is facilitated by the latest developments such as Facebook, YouTube and MySpace. Large scale storage technologies are leading to Cloud Computing where data and applications may reside anywhere in the world. Research in how to access meaningful data from the vast amounts on the Web have led to initiatives such as Semantic Web and Linked Data. Mashups mix data from disparate sources to enable users to work more efficiently. Event Web and Second Life promise to change the way we interact. Wireless and mobile computing are changing the market place. All of these trends are still in their early stages. To make sense of all these developments, the top echelon of the World Wide Web Consortium are actively engaged in creating a new discipline called Web Science. Advanced Topics in ICT will enable the students to appreciate the scale of new developments and create prototypes of applications in their desired ambit.

300252.3 Advanced Topics in Networking

Credit Points 10 **Level** 7

Assumed Knowledge

The students should be familiar with the fundamentals of computer networking. In particular, they should have a good understanding of the OSI model, the TCP/IP protocol suite, and current Internet and networking technologies. Therefore, it is strongly advisable that the students must have either taken an appropriate unit in computer networking (e.g., 300695 Network Technologies), or have equivalent knowledge.

Special Requirements

Students must be enrolled in a postgraduate course

.....

This unit focuses on the advanced features of networked systems and the emerging network technologies and services. The unit provides students with an in-depth understanding of relevant protocols, the emerging standards, and standards organisations. The emphasis of the unit is on development of the student skills to enable them to do proficient research and development works and studies in the computer networking discipline.

300595.2 Advanced Water Engineering

Credit Points 10 **Level** 7

Assumed Knowledge

Students must have a background in water and related technology at tertiary level

Equivalent Units

300519 - Drainage Engineering (PG)

.....

This unit exposes students to the concepts of drainage analysis. It focuses on the surface water components of a hydrologic cycle. The hydrologic theories will be integrated with the hydraulic principles to enable holistic analysis of a catchment.

300085.2 Advanced Web Site Development

Credit Points 10 **Level** 3

Assumed Knowledge

Basic programming principles and control structures; basic file management and PC operation including how to access the internet; basic HTML, JavaScripting, ASP and use of session variables.

Equivalent Units

J3752 - Internet and Web Design

.....

This unit introduces students to the design, implementation and operation of internet and intranet web sites. It includes the design, development and implementations of server-side applications, the use of multi-media and human interaction on the browser side, the management and operation of internet/intranet systems and the interaction of these information systems with society and the corporate world. Security, access rights, financial transactions and

legal issues are also covered. A major component of this unit is working with server/browser applications in ASP or similar programming environment and the development of web based information systems and methodologies. This unit is heavily orientated to practical experience in developing the theoretical concepts.

300679.2 Air, Water and Noise Management

Credit Points 10 **Level** 7

Assumed Knowledge

The students should have a basic understanding on air, water and noise environmental issues and the science that underpins them.

Equivalent Units

EY810A- Aquatic Resource Management, EY813A - Management of Aquatic Environments, EH837A - Air Quality Assessment and Management.

.....

This unit introduces the student to a range of skills required to assess the environment in relation to air, water and noise. Students will be introduced to the legislative framework that supports pollution control and environmental management in NSW. Methods of controlling air, water and noise pollution will be covered. The concept of indicators and their use will be introduced. Students will select either an air, water or noise issue to undertake a more in-depth study for assessment purposes.

400988.1 Allergic Sciences 1

Credit Points 10 **Level** 7

Assumed Knowledge

Students must have completed a medical degree and be practicing as a clinican.

Special Requirements

Students must be enrolled in course 4689 Graduate Certificate in Allergic Diseases. Must be a practicing medical practitioner. Students will need to attend either the annual ASCIA annual conference or Macarthur annual conference and take part in the specific program run for students of this program.

.....

This unit will consist of 4 online modules dealing with the basic science of allergic diseases. The modules will cover Immunology, Food Hypersensitivity, Gastrointestinal and Food Related Disease and Allergic Airway Disease. These modules will provide a sound basis for the later clinical experiences. Support will be available from an experienced immunologist. Students will also need to attend either the ASCIA annual conference or Macarthur annual conference and take part in the specific program run for students of this program.

400989.1 Allergic Sciences 2

Credit Points 10 **Level** 7

Assumed Knowledge

Students must have completed a medical degree and be practicing as a clinician

Prerequisite

400988.1 Allergic Sciences 1

Special Requirements

Students must be enrolled in course 4689 Graduate Certificate in Allergic Diseases. Must be a practicing medical practitioner. Students will need to attend either the annual ASCIA annual conference or Macarthur annual conference and take part in the specific program run for students of this program.

.....

This unit will consist of 4 online modules dealing with the basic science of allergic disease. The modules will cover Allergic rhinoconjunctivitis, Allergic skin disease, Drug allergy, Insect allergy and Paediatric allergy. These modules will provide a sound basis for later clinical experiences. Support will be available form an experienced immunologist. Students will need to attend either the annual ASCIA annual conference or Macarthur annual conference and take part in the specific program run for students of this program.

200499.2 Alternative Solutions for Bushfire Prone Areas

Credit Points 10 **Level** 7

Assumed Knowledge

Students need to have prior knowledge of bushfire behaviour, planning, building and bushfire fighting and emergency management.

Prerequisite

200457.2 Bushfire Behaviour AND **200458.1** Building in Bushfire Prone Areas AND **200500.1** Bushfire Fighting AND **300708.1** Planning and Development Control

Corequisite

200459.1 Emergency Management for Bushfire Prone Areas

.....

This unit describes the processes and techniques available to develop alternative approaches and solutions to the planning and building of structures within bushfire prone areas. The course builds on other units in the course to consider the concept of measures in combination so as to reduce the effects of bushfire on life, property and the environment. It also introduces the concepts of "bushfire engineering guidelines" and processes similar to that used in developing alternative solutions under the Building Code of Australia. Students are required to develop an alternative solution for bushfire affected premises.

400200.2 Applied Nursing Research

Credit Points 10 **Level** 7

Assumed Knowledge

A basic knowledge of research methods at undergraduate level or equivalent is required.

.....

Research is a necessary undertaking toward the continued development of nursing knowledge as well as personal

professional development. The aim of this unit is to both broaden and deepen students' understanding of research methods and to extend their ability to discuss, appraise the work of others and participate in their own research.

400856.1 Approaches to Epidemiology

Credit Points 10 **Level** 7

Equivalent Units

HC812A - Approaches to Epidemiology

Special Requirements

Students must be enrolled in courses 4569 - Master of Primary Health Care or 4570 - Graduate Deiploma in Primary Health Care.

.....

This unit presents the principles, strategies and activities associated with social epidemiology and the contribution that this epidemiology makes to the understanding of health and illness of individuals, families and communities. Consideration of social epidemiology in supplementing classical approaches is included, as is consideration of primary health care epidemiology in relation to health service delivery and planning. Students will explore the consequences of primary health care decision making that will enable evidence-based health care practice and relate it to their practice.

400228.3 Assessment for Advanced Practice Mental Health Nurses

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course. Students enrolled in course 4673 must have passed the following three units before they can enrol in this unit - 400238 Policy, Power and Politics in Health Care Provision and 400777 Leadership for Quality and Safety in Health Care and 400957 Biological Considerations in Mental Health and Mental Illness for Advanced Practice.

.....

This unit examines assessment and treatment planning practices for advanced practice nurses. Components of the unit include advanced assessment skills, diagnostic decision making, judicious ordering, reading and interpretation of pathology and radiology tests, triaging and prioritisation, pharmacology, intervention and referral skills. These skills will be addressed in a range of assessment and decision-making situations, to include assessment across the lifespan and recognizing deviation from the norm. Nurses working at an advanced practice level are expected to be able to autonomously undertake comprehensive mental health assessments, and to apply clinical judgement to decision making and treatment planning.

400957.3 Biological Considerations in Mental Health and Mental Illness for Advanced Practice

Credit Points 10 **Level** 7

Equivalent Units

400230 - Biological Aspects of Mental Illness for Advanced Practice

Special Requirements

Students must be enrolled in a postgraduate course. Students enrolled in course 4673 must have passed the following three units before they can enrol in this unit - 400220 Contemporary Professional Practice in Mental Health Nursing and 400206 Evidence-based Nursing and 400235 Leadership in Clinical Practice.

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This unit examines neuroanatomy and neurophysiology as they apply to altered thought, mood, perception and behaviour associated with mental illness; biological contributors to mental illness including hormones, genes, immune mechanisms, nutrition, and sleep disturbance; and the application of an understanding of biological contributors to advanced mental health practice.

300680.2 Biotechnology Analytical Techniques

Credit Points 10 **Level** 7

Assumed Knowledge

Bachelors degree in biological sciences or equivalent with a sound knowledge in Microbiology and Biochemistry.

Equivalent Units

MI810A - Principles and Practice of Biotechnology, MI808A - Rapid methods in Microbiology.

Incompatible Units

300307 Analytical Microbiology

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The unit provides a theoretical and practical introduction to a wide range of biotechnology techniques that are commonly used in medical science, industrial and food microbiology, environmental science, and research. Building on a basic understanding, the unit aims at demonstrating traditional and modern techniques commonly used in biotechnology. The laboratory component is an integral component of the unit as the students are able use a variety of techniques, methods and commercial systems that are applied in biotechnology laboratories.

300713.2 Building Engineering

Credit Points 10 **Level** 7

Equivalent Units

EN808A - Building Engineering

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The aim of this unit is to provide students with an understanding of the factors that contribute to decisions in building design in respect of compliance with building

regulations and standards. Topics include soil classification for construction, footing systems, loadings and their evaluation, structural materials and systems, structural behaviour and strength, and failure and rectification.

300711.2 Building Fire Services

Credit Points 10 **Level** 7

Assumed Knowledge

Building surveying, fire safety engineering and related disciplines.

Equivalent Units

PE806A - Building Fire Services

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This unit describes the various types and application of building services and fire safety systems. It introduces appropriate standards for building fire service system design and the methods of applying recommendations of fire engineering assessments with respect to building services and fire safety systems.

200458.2 Building in Bushfire Prone Areas

Credit Points 10 **Level** 7

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This unit describes the basis for the design and construction of buildings to withstand bushfire attack, the measures that can be incorporated into building design to achieve this and the legislative building requirements affecting bushfire environments. The unit examines the mechanisms of bushfire attack on structures, the role of landscaping on building survival and how materials perform in the presence of a bushfire event. The unit describes the role of the Building Code of Australia (BCA) and Australian Standards in the construction of various building types and the legislative and regulatory environment in which this operates.

400846.2 Building Organisational Capacity in Health Care

Credit Points 10 **Level** 7

Equivalent Units

400778 - Leadership and the Development of Organisational Capacity in Health Care

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The concept, form and structure of health care organisations are explored. Organisational theory is used to analyse contemporary health care structures. Factors which influence organisational design, function and effectiveness are discussed including: organisational behaviour, strategy, culture, power and politics, technology, sustainability and effectiveness. A major focus is planning for strategic organisational development to meet the challenges of rapid change and the need for performance improvements in patient care delivery. Concepts related to the strategic development of workforce capacity in the health care arena considered through the application of theories including the learning organisation. Leadership is examined with emphasis on change management.

300716.2 Building Studies

Credit Points 10 **Level** 7

Assumed Knowledge

This subject assumes that the student has undertaken undergraduate coursework in building surveying, planning or related areas or has gained the equivalent building construction knowledge by working in the construction industry in an appropriate capacity for at least four years.

Equivalent Units

BG812A - Building Studies

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This unit describes and analyses the technological, socio-economic and sustainability factors that influence the building industry. The topics include advances in contemporary issues affecting sustainability and energy conservation, access and adaptable housing, safety in special areas and building design in accordance with the relevant legislative requirements. Use of assessment tools for sustainability is covered. Discussions are also made on development management, the roles and the relationship between building owners /occupiers, developers and building surveyors.

200328.4 Built Environment Research Project

Credit Points 20 **Level** 7

Assumed Knowledge

Knowledge of fire safety engineering and related disciplines.

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The unit will help students to solve a general, technical or fundamental problem on an individual basis. The unit requires the student to identify a issue related to the fire safety engineering, construction or building industry, review and critically appraise current literature related to the issue, develop a research question, identify and apply the appropriate research methodology, prepare a research plan, collect and analyse data, communicate research findings with appropriate recommendations.

200457.3 Bushfire Behaviour

Credit Points 10 **Level** 7

Assumed Knowledge

This unit assumes that the student has undertaken undergraduate coursework in building surveying, planning or related areas or has gained the equivalent building construction knowledge by working in the construction industry in an appropriate capacity for at least four years.

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This unit describes the factors affecting bushfire behaviour and the models which are used to predict bushfire behaviour, the principles of fire ecology, and the assessment of bushfire hazards on property and the environment. Topics include the measurement of fuel, rates of spread and flame length equations, fire danger indices and landscape issues, topographical influences on fire behaviour, the importance of fire regimes and fire thresholds on flora and fauna, habitat and fire impacts on

environmental services such as soils and water catchments. The role of fire behaviour in determining impacts on structures is also described.

200500.2 Bushfire Fighting

Credit Points 10 **Level** 7

Assumed Knowledge

This subject assumes that the student has undertaken undergraduate coursework in building surveying, planning or related areas or has gained the equivalent building construction knowledge by working in the construction industry in an appropriate capacity for at least four years

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This unit describes the techniques, hardware and extinguishing agents used to fight and control bushfires and focuses on the logistics involved in ensuring safe, efficient and effective control. The content includes bushfire fighting strategies in the context of rural and interface environments, hazard reduction, brigade structure and incident control arrangements. The role of planning in supporting fire fighting is also considered.

400984.1 Cardiorespiratory Physiotherapy

Credit Points 10 **Level** 3

Prerequisite

400982.1 Core Competencies in Physiotherapy Practice AND **400981.1** Clinical Pharmacology AND **400870.1** Population Health and Society AND **400864.2** Research Methods (Quantitative and Qualitative)

Corequisite

400984.1 Cardiorespiratory Physiotherapy AND **400986.1** Neurological Physiotherapy AND **400985.1** Clinical Education A

Special Requirements

Students must be enrolled in 4662 Bachelor of Health Science/Master of Physiotherapy, 4668 Bachelor of Health Science (Honours)/Master of Physiotherapy or Graduate Entry Master of Physiotherapy programs. Students in this program are required to participate fully in practical classes. This involves disrobing to shorts and singlet or swim-suit equivalent in mixed gender classes. Students will practice hands-on physiotherapy examination and treatment techniques on both genders, and will personally experience these techniques which will be performed on them by other students and relevant academic staff. Students cannot enrol in Year 3 Physiotherapy units until they have completed 160 credit points in the Bachelor of Health Science/Master of Physiotherapy and 4668 Bachelor of Health Science (Honours)/Master of Physiotherapy programs.

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This unit builds on the knowledge and skills developed in the first two years of physiotherapy study. It focuses on client assessment and evidence-based management in acute cardiorespiratory physiotherapy contexts. This will require strong communication skills, ethical and professional behaviour and an appreciation of interprofessional care. Professional competencies addressed in this unit include introductory skills in cardiorespiratory physiotherapy assessment, interpretation and prioritisation of findings along with the implementation and evaluation of appropriate treatment strategies.

400972.1 Child & Family Health Practice: Supporting Growth and Development

Credit Points 10 **Level** 7

Assumed Knowledge

An understanding of professional frameworks and competencies for the Registered Nurse or Registered Midwife at a undergraduate level, augmented with clinical experience at a general Registered Nurse or Registered Midwife level.

Equivalent Units

400207 - Childhood in Child and Family Health Nursing, 400829 - Child and Family Health Nursing: Supporting Child Growth and Development

Special Requirements

Students must be enrolled in 4682 - Master of Child and Family Health (Karitane) and 4683- Graduate Certificate in Child and Family Health (Karitane) (exit only).

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Child and family health is a diverse speciality area with child and family health professionals required to work autonomously across a variety of clinical settings. This unit will focus on the scope and standards of practice of Child and family health practise exploring; historical beginnings and current models of care, appropriate legal & ethical issues and government policies and initiatives that influence practice. Informed by the principles of Primary Health Care, the student will gain skills in supporting families and children within the context of a strengths based partnership model. Health promotion, public health, health surveillance and cultural competence are introduced in this unit. The various strategies for the appropriate support of child and family health professionals will be addressed. In this unit emphasis is also placed on critical thinking and the development of scholarly writing

400971.1 Child & Family Health: Professional Practice and Frameworks

Credit Points 10 **Level** 7

Assumed Knowledge

An understanding of professional frameworks and competencies for the Registered Nurse or Registered Midwife at a undergraduate level, augmented with clinical experience at a general Registered Nurse or Registered Midwife level.

Equivalent Units

400828 - Child & Family Health Nursing :Professional Practice and Frameworks

Special Requirements

Students must be enrolled in 4682 - Master of Child and Family Health (Karitane) and 4683 - Graduate Certificate in Child and Family Health (Karitane) (exit only).

.....

Child and family health is a diverse speciality area with child and family health professionals required to work

autonomously across a variety of clinical settings. This unit will focus on the scope and standards of practice of Child and family health practise exploring; historical beginnings and current models of care, appropriate legal & ethical issues and government policies and initiatives that influence practice. Informed by the principles of Primary Health Care, the student will gain skills in supporting families and children within the context of a strengths based partnership model. Health promotion, public health, health surveillance and cultural competence are introduced in this unit. The various strategies for the appropriate support of child and family health professionals will be addressed. In this unit emphasis is also placed on critical thinking and the development of scholarly writing.

400162.2 Child and Adolescent Occupations

Credit Points 10 **Level** 3

Assumed Knowledge

First and second year specialty occupational therapy units or Occupational Therapy Theory and Practice.

Special Requirements

Students must be enrolled in courses 4663 - Bachelor of Health Science/Masters of Occupational Therapy and 4664 - Master of Occupational Therapy. To undertake this unit, students must comply with the following special requirements: Prior to enrolling in this unit students must have: 1) successfully completed an approved Child Protection Workshop 2) submitted a Prohibited Employment Declaration prior to 1 June 2010 or a Working with Children Check Student Declaration after 1 June 2010 3) if students are visiting a NSW Health facility they will need to comply with the occupational screening and immunisation policy of NSW Health.

.....

Students learn about paediatric and adolescent occupational therapy practice in different practice settings. This unit examines child development and explores the occupations of childhood and adolescence. Occupational therapy models, frames of reference, assessments and interventions are applied to practice scenarios. Family-centred practice is a key focus of this unit. There will be a self directed and reflective learning approach in this unit.

400576.2 Chinese Medicine Classics

Credit Points 10 **Level** 7

Assumed Knowledge

Equivalent to undergraduate training in TCM including Chinese Herbal Medicine (Materia Medica and Medicinal Formulae) and Chinese medicine classics including Shang Han Lun (Treatise on Cold Induced Disorders).

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This unit will explore in detail the applications of one of the classic texts of Chinese medicine literature, the Shang Han Lun (Treatise of Cold Induced Disorders), in the treatment of a range of illnesses. The unit will cover the essential features of diseases of the ' six channels' (stages of pathogenesis) and modifications and combinations of key medicinal formulae.

400687.2 Chinese Medicine Specialities 1

Credit Points 10 **Level** 7

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This unit will enable practitioners to extend their understanding of the Traditional Chinese Medicine (TCM) diagnosis and management of a range of gastrointestinal and paediatric disorders. A feature of this unit is the integration of TCM and western medical approaches. Treatment will focus on acupuncture with common patent Chinese herbal medicine treatments included.

300681.2 Climate Change Impacts

Credit Points 10 **Level** 7

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This is a flexible learning unit that provides professional environmental resource managers a range of opportunities to upgrade their leadership skills and competencies to develop policies and strategies for climate change mitigation and adaptation at local, national and international levels. The unit aims at developing critical thinking and understanding of the students about environmental issues related to climate change. Students will use contemporary interdisciplinary tools and models that have potential application in real world decision making. Each student will undertake a project in their chosen enterprise to understand and appreciate issues concerning climate change impacts on natural and built environment.

400990.1 Clinical Allergy 1

Credit Points 10 **Level** 7

Assumed Knowledge

Students must have completed a medical degree and be practicing as a clinician

Prerequisite

400989.1 Allergic Sciences 2

Special Requirements

Students must be enrolled in course 4689 Graduate Certificate in Allergic Diseases. Must be a practicing medical practitioner. Students will need to attend either the annual ASCIA annual conference or Macarthur annual conference and take part in the specific program run for students of this program.

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This unit will consist of 20 half day sessions in a specialist immunology/allergy clinic. Students will be under the supervision of experienced immunologists and will develop their skills in the diagnosis and management of allergic disorders. Students will need to attend either the annual ASCIA annual conference or Macarthur annual conference and take part in the specific program run for students of this program.

400991.1 Clinical Allergy 2

Credit Points 10 **Level** 7

Assumed Knowledge

Students must have completed a medical degree and be practicing as a clinician

Prerequisite

400990.1 Clinical Allergy 1

Special Requirements

Students must be enrolled in course 4689 Graduate Certificate in Allergic Diseases. Must be a practicing medical practitioner. Students will need to attend either the annual ASCIA annual conference or Macarthur annual conference and take part in the specific program run for students of this program.

.....

This unit will consist of 20 half day sessions in a specialist immunology/allergy clinic. Students will be under the supervision of experienced immunologists and will develop their skills in the diagnosis and management of allergic disorders. Students will need to attend either the annual ASCIA annual conference or Macarthur annual conference and take part in the specific program run for students of this program.

400985.1 Clinical Education A

Credit Points 10 **Level** 3

Prerequisite

400982.1 Core Competencies in Physiotherapy Practice AND **300754.1** Neuroanatomy AND **400981.1** Clinical Pharmacology AND **400864.2** Research Methods (Quantitative and Qualitative)

Corequisite

400983.1 Orthopaedic Physiotherapy AND **400986.1** Neurological Physiotherapy AND **400984.1** Cardiorespiratory Physiotherapy AND **400987.1** Neurological Physiotherapy Practice

Special Requirements

Students must be enrolled in 4662 Bachelor of Health Science/Master of Physiotherapy, 4668 Bachelor of Health Science (Honours) / Master of Physiotherapy or 4667 Master of Physiotherapy. Prior to enrolling in this unit students must have: 1) submitted a Criminal Record Check form prior to 1 June 2010 or a Student Undertaking Form after 1 June 2010 and have applied for a National Police Certificate 2) submitted a Prohibited Employment Declaration prior to 1 June 2010 or a Working with Children Check Student Declaration after 1 June 2010. 3) A senior first aide certificate which includes cardiopulmonary resuscitation. If students are visiting a NSW Health facility they will need to comply with the NSW Health Occupational Screening and Vaccination Against Infectious Diseases Policy. Students are required to wear the UWS physiotherapy uniform which complies with NSW Health uniform requirements. Students cannot enrol in Year 3 Physiotherapy units until they have completed 160 credit points in the Bachelor of Health Science/Master of Physiotherapy and 4668 Bachelor of Health Science (Honours)/Master of Physiotherapy programs.

.....

This unit focuses on the core competencies of physiotherapy professional practice in acute care settings. These competencies will be developed through a supervised, community-based clinical education placement. Professional competencies addressed in this unit include communication, documentation, reflection, professional and ethical behaviour. In addition, students will develop skills in physiotherapy assessment and treatment in acute care settings which may span the musculoskeletal, neurological and cardiorespiratory domains.

400993.1 Clinical Minimally Invasive Gynaecological Surgery 1

Credit Points 10 **Level** 7

Special Requirements

Students must be an advanced trainee in O&G undertaking a fellowship at Blacktown Hospital. Students undertaking this unit must be enrolled in 4690 Master of Surgery in Advanced Gynaecological Surgery.

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Students undertaking this unit will have a detailed knowledge of open abdominal surgery at commencement. This unit will extend their knowledge in the practical aspects of laparoscopic surgery. This unit will be completed in Year 1 of the program.

400830.2 Clinical Practice: Infant and Child Nutrition and Feeding

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in 4649 - Master of Nursing (Child and Family Health - Karitane) or 4650 Graduate Certificate in Nursing (Child and Family Health - Karitane) (exit only). Patient safety issues are associated. Special requirements are those stipulated by the NSW Health Department and UWS. These include Prohibited Employment Declaration (PED); NSW Health Clinical Placement Authority (Criminal Record Check) and Adult health immunisation.

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This unit version replaces version 1 from 2010. This unit builds upon the unit Child and Family Health Nursing Practice: Supporting Child Growth and Development and focuses on infant feeding including breast feeding as a significant social and cultural process not just an issue of physiology and nutrition. The theoretical component of this unit will focus on the age-appropriate nutrition of infants and young children linked to developmental stages and the role the child and family health nurse in supporting families manage associated issues. All areas of early nutrition will be covered including breastfeeding, use of breast-milk substitutes, introduction of solids and toddler nutrition. The knowlerdge gained in this unit will be consolidated through an 80 hour clinical placement negotiated by the student in a primary, secondary or tertiary child and family health facility.

400973.1 Clinical Teaching and Professional Development

Credit Points 10 **Level** 7

Equivalent Units

400724 - Clinical Teaching and Professional Development

Special Requirements

Students must be enrolled in a Postgraduate course

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This unit prepares clinicians for their role in operationalising key priorities for learning and teaching in their organisations, and for planning and providing appropriate and relevant teaching and learning experiences that build the capacity of colleagues. Theoretically informed, experiential strategies will enable students to explore the potential that clinical teaching has to transform practices and workplaces.

400974.1 Clinical Teaching for Learning

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a Postgraduate course

.....

This unit prepares students for a role in clinical education involving planning and providing appropriate and relevant teaching and learning experiences that build the capacity of students, colleagues and staff. Students will critically reflect on their own teaching practice, explore how theoretical frameworks can guide the development of their teaching practice, develop and provide an education session to address a clinical learning need, and seek feedback on teaching through peer observation.

400839.1 Collaborative Inquiry for Primary Health Care Action

Credit Points 10 **Level** 7

Equivalent Units

400775 - Project Proposal PHC

Special Requirements

Students must be enrolled in course 4569 - Master of Family Health Care

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This unit provides the opportunity for students to apply the principles of primary health care in a proposal to address an issue of primary health care concern in their workplace or community. The student will gain comprehensive knowledge of the process of action research, participatory action research and cooperative inquiry. Each student will have the opportunity to write a proposal using a collaborative inquiry approach that involves planning a genuine partnership to examine and make changes to improve an identified issue in the student's specific area of work / practice.

400840.3 Communicable Diseases

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a Postgraduate degree to be able to enrol in this unit.

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This unit will encompass clinical aspects, epidemiology, prevention and control of important communicable diseases, both in Australia, and globally. Specific topics covered include causative agents, routes of transmission, host responses, risk factors, environmental influences, vector- and food-borne diseases, vaccine-preventable diseases, legislative requirements, surveillance, outbreak investigations, bioterrorism, strategies for prevention and control and emerging challenges.

400953.2 Complex Midwifery 1

Credit Points 10 **Level** 7

Prerequisite

400950.2 Introduction to Midwifery 1 AND **400951.2** Introduction to Midwifery 2

Incompatible Units

400078 - Complications of Pregnancy and the Postnatal Period; 400079 - Complications of Labour/Birth and the Newborn.

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This unit provides students with an in depth knowledge of complex conditions that may arise during pregnancy, labour, birth and the postnatal period. Emphasis will be placed on the biological and physiological aspects of these conditions. The unit also integrates psychosocial and cultural aspects relating to a woman experiencing a complex pregnancy, labour, birth or postnatal period. The unit demonstrates the role of the midwife in maintaining partnerships with women even when childbearing experiences are complex.

400955.2 Complex Midwifery 2

Credit Points 10 **Level** 7

Prerequisite

400950.2 Introduction to Midwifery 1 AND **400951.2** Introduction to Midwifery 2

Incompatible Units

400078 - Complications of Pregnancy and the Postnatal Period; 400079 - Complications of Labour/Birth and the Newborn.

.....

This unit provides students with an in depth knowledge of complex conditions that may arise during pregnancy, labour, birth, the postnatal period and the newborn period. Emphasis will be placed on the biological and physiological aspects of such conditions. The unit also integrates psychological and cultural aspects relating to a woman experiencing a complex pregnancy, labour, birth and postnatal period. The role of the midwife in providing holistic woman centred care is an important component of

the unit, as any obstacles that arise will have an impact on the management of pregnancy, labour, birth, the postnatal period and the newborn period.

300565.2 Computer Networking

Credit Points 10 **Level** 2

Assumed Knowledge

Fundamentals of computer architecture, binary and hexadecimal numbering systems, and programming principles. They should also have a working knowledge of the World Wide Web.

Equivalent Units

300094 - Computer Networking Fundamentals, 300086 - Applied Data Communications and Networking

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Computer Networking is an introductory unit in computer systems networking. It covers basic networking technologies, Ethernet fundamentals, ISO OSI model, routing, switching and subnetting, the Internet architecture, networking protocols including TCP/IP, important networking devices such as repeaters, hubs, bridges, switches, routers and gateways, basic management and security issues. This unit is also the first of three units, which will prepare students for industry based networking certification (CCNA).

300095.4 Computer Networks and Internets

Credit Points 10 **Level** 3

Assumed Knowledge

Fundamentals of data communications and computer networking, such as that covered in the prerequisite unit.

Prerequisite

300565.2 Computer Networking OR **300095.4** Computer Networks and Internets OR **300086.2** Applied Data Communications and Networking OR **300946.1** Computer Networking (Advanced)

Special Requirements

This unit is offered at an advanced level and students need to have a good knowledge in fundamentals of data communications, computer networking and basic knowledge of programming in C++ language to successfully complete the unit.

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This unit extends on the work undertaken in the prerequisite unit and provides students with an in-depth understanding of the role of TCP/IP, ICMP and routing protocols used in IP networks and internetworks. Students will learn about the critical role of routing protocols and how to design, construct and implement small internets. Students will also learn how to perform basic management and security tasks in a practical, hands-on fashion using Cisco routers and other networking equipment. This is the second of three units that prepares the student for industry based networking certification (CCNA).

300238.2 Computing Research Project A

Credit Points 10 **Level** 7

Assumed Knowledge

Fundamentals of software, networking or information systems management

Equivalent Units

54919 - Computing Project A

Special Requirements

Students must be enrolled in a postgraduate course.

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This unit entails a substantial investigation and practical work on a topic in an area of current research interest in computing and information technology that is relevant to candidates' professional and intellectual development. Candidates are encouraged to select topics they envisage to be of value to their future careers. Candidates undertake individual project-based study under guidance of a project supervisor.

400220.2 Contemporary Professional Practice in Mental Health Nursing

Credit Points 10 **Level** 7

Assumed Knowledge

Students are required to be registered nurses with basic knowledge of mental health, mental illness and assessment processes augmented with experience in mental health settings.

Special Requirements

Students must be enrolled in a postgraduate course.

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This version will replace version 1 from 2010. Professional practice in Mental Health Nursing is continually evolving to meet changing social, political and legal requirements related to mental health issues. These requirements include changes in social and political understandings of mental illness and the rights and responsibilities of consumers, carers and providers. There has also been increased emphasis on health promotion, prevention and education in population specific contexts (eg, aged care, child and family, adolescent mental health, alcohol and other drugs services). Mental Health Nurses thus face challenges to develop practice that is congruent with the context of these changing requirements. This unit aims to provide a basis of inquiry into contemporary practice(s) from which the nurse can build an ongoing understanding and appreciation of changing influences.

300697.2 Content Management Systems & Web Analytics

Credit Points 10 **Level** 7

Assumed Knowledge

Web development and HTML basics.

Equivalent Units

300264 Web Site Management and Security

Special Requirements

Students must be enrolled in a postgraduate course.

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Content management systems (CMS) is a collective name for a wide range of web applications used by organisations/ institutions/enterprises and social communities in establishing a continuing web presence. They may connect to backend systems and can provide complete web application services. This unit builds on both the conceptual and practical skills/knowledge to develop and utilise CMS's; in their management; in technical, legal, ethical and security issues; and in utilising web analytics to obtain business intelligence of their operation and impact.

300103.2 Data Structures and Algorithms

Credit Points 10 **Level** 2

Prerequisite

300027.2 Engineering Computing OR **300155.1** Programming Principles 1 OR **300405.2** Fundamentals of Programming OR **300580.2** Programming Fundamentals

Corequisite

200025.2 Discrete Mathematics OR **200237.3** Mathematics for Engineers 1

.....

This unit introduces students to fundamental data structures and algorithms used in computing. The material covered forms the basis for further studies in programming and software engineering in later units. The unit focuses on the ideas of data abstraction, object-oriented programming, and software reuse. Issues relating to computational complexity of algorithms are addressed throughout the session. Topics covered include: the fundamental abstract data types (lists, stacks, queues, trees, hash tables, graphs); recursion; complexity of algorithms; internal and external sorting and searching algorithms; file structures; and B trees.

300104.4 Database Design and Development

Credit Points 10 **Level** 2

Assumed Knowledge

Basic programming skills, including variable declaration, variable assignment, selection statement and loop structure.

Incompatible Units

200129 - Database Management System for Business Information Systems.

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The main purpose of this unit is to provide students with an opportunity to gain a basic knowledge of database design and development including data modeling methods, techniques for database design using a set of business rules that are derived from a case study and finally implementation of the database using a commercial relational database management system. The unit also examines a number of important database concepts such as database administration, concurrency, backup and recovery and security. At the same time student learning and intercommunication skills are enhanced by running tutorial presentations and group assignments.

400572.2 Dermatology in Chinese Medicine 1

Credit Points 10 **Level** 7

Assumed Knowledge

Equivalent to undergraduate training in Traditional Chinese Medicine.

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This unit along with Dermatology in Chinese Medicine 2 will enable practitioners to develop an in-depth understanding of Traditional Chinese Medicine (TCM) diagnosis and management of a wide range of skin diseases using acupuncture and Chinese herbal medicine. This unit includes orthodox medical diagnosis and management of common skin disorders and the integration of this with TCM theory, diagnosis and management. Dermatology in Chinese Medicine 1 and 2 together provide a strong specialist clinical focus on the management of skin disorders with Chinese medicine.

400573.2 Dermatology in Chinese Medicine 2

Credit Points 10 **Level** 7

Assumed Knowledge

Equivalent to undergraduate training in Traditional Chinese Medicine.

.....

This unit extends students' knowledge and understanding developed in Dermatology in Chinese Medicine 1. The focus of this unit includes the orthodox medical diagnosis and management of common and systemic skin disorders and the integration of TCM theory, diagnosis and management. Dermatology in Chinese Medicine 1 and 2 together provide a strong specialist clinical focus on the management of skin disorders with TCM.

300396.2 Developing Professional Practice

Credit Points 10 **Level** 7

Assumed Knowledge

Appropriate contextual knowledge and experience.

Equivalent Units

300275 - Professional Praxis: Learning in Context

Special Requirements

This unit is restricted to the following courses: 3602 - Master of Environmental Management, 3605 - Master of Occupational Safety, Health and Environmental Management, 3606 - Graduate Diploma in Occupational Safety, Health and Environmental Management, 3607 - Graduate Certificate in Occupational Safety, Health and Environmental Management, 456S - Graduate Diploma of Applied Science (Occupational Safety, Health & Environmental Management)

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This unit is designed to develop qualities and attributes in professionals consistent with the principles of life long learning, experiential learning and a variety of ways of thinking and acting. The primary aim of the unit is for

students to learn by improving professional problematic issues of concern. A particular focus will be an introduction to system and holistic thinking and practice. Students will be supported in designing and managing two self directed praxis development learning projects that are connected to their own area of professional interest.

300717.2 Egress and Risk Assessment

Credit Points 10 **Level** 7

Assumed Knowledge

This unit assumes that the student has undertaken coursework in building construction, building surveying, engineering, science, architecture or a related area or has gained the equivalent knowledge by working in the construction industry in an appropriate capacity for at least four years.

Equivalent Units

BG810A - Fire Safety Systems 1 (Property)

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This unit introduces the concept of risk assessment for fire safety systems relevant to life safety and property protection. The unit helps students develop an understanding of building occupant characteristics and human behaviour during fire emergencies. Parameters, methods and criteria for risk and economic assessments are covered in this unit.

300567.3 e-Health

Credit Points 10 **Level** 3

Prerequisite

300566.2 Introduction to Health Informatics

Special Requirements

Students in 3663 – Graduate Certificate in Health Informatics are not required to complete the pre-requisite unit 300566 – Introduction to Health Informatics before enrolling in 300567 – e-Health.

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This unit exposes students to the processes and techniques of the development of e-Health applications. It extends the students knowledge of Health Informatics by introducing concepts relating to electronic communications within the Health Industry. Areas include the Electronic Health Record Standards, Security, Privacy and Trust together with TeleHealth / TeleMedicine approaches, methodologies, tools and techniques.

200459.2 Emergency Management for Bushfire Prone Areas

Credit Points 10 **Level** 7

Assumed Knowledge

Bushfire behaviour, planning, building and bushfire fighting units

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This unit describes the organisational and administrative arrangements for the management of emergency events in Australia, including the role of States and local government and the techniques available to develop risk management strategies in order to minimise loss of life and property arising from bushfire emergencies. The unit describes how the three tiers of Government interact during major emergency events, the role of community engagement in emergency management and the process of developing a risk management plan for bushfire emergencies. The unit also discusses the role of post-event survey and emergency and evacuation planning at the property scale.

300513.2 Engineering Software Applications

Credit Points 10 **Level** 7

Assumed Knowledge

Graduate of a recognised engineering or industrial design degree or equivalent.

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This unit offers several streams of practical applications in engineering and industrial design software. Students get to choose a software application stream depending on their key program. Lectures and assignments are delivered online and are enhanced by face to face contact with stream coordinators. Emphasis is placed on teaching students practical software applications skills relevant to industry needs.

300690.2 Environmental Assessment

Credit Points 10 **Level** 7

Equivalent Units

EH830A - Environmental Assessment

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This unit emphasises the role of environmental management in attainment of ecologically sustainable development. Students will be introduced to a variety of environmental assessment methods that are applied to a range of environmental management issues at local, national and international level. A number of environmental assessment methods will be presented to students in terms of their historical background, legislative implication, national/international standards, process/techniques, supported with case studies and critical reviews. Students will be provided with a number of assessments. The assessment tasks are designed to enable student review the environmental assessment methods that are applied to environmental projects and also to undertake an environmental assessment project of their own. Through critical evaluation of others project and also conducting own project, students' knowledge and understanding about the application, technique, usefulness, and limitations of the various environmental assessment methods will be strengthened.

300689.1 Environmental Management Systems

Credit Points 10 **Level** 7

Equivalent Units

EH829A - Environmental Management Systems

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This unit details the complexity of environmental management systems (EMS) and how they interconnect

with other management systems. It considers the difficulties encountered when practicing environmental management on a broad spatial scale and considers the various EMS tools that are available and their strengths, weaknesses and limitations when applying them to different environments.

400417.2 Epidemiology and Quantitative Methods

Credit Points 10 **Level** 7

Equivalent Units

E7228 - Epidemiology and Quantitative Methods.

Special Requirements

Students must be enrolled in a postgraduate course.

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In this unit students study epidemiological design and analytic strategies as well as biostatistics. The unit also examines the use of surveillance and population datasets to measure and monitor population health and plan health services. Students will develop skills to critically appraise research in health and health care. A range of research studies is examined including studies of occurrence and risk factors for disease and studies evaluating intervention treatments or programs. Both the epidemiological and statistical evidence for the findings are critically assessed

400926.1 Ergonomics and Work Occupations

Credit Points 10 **Level** 7

Assumed Knowledge

Human anatomy, functional anatomy.

Special Requirements

Students must be enrolled in courses 4663 - Bachelor of Health Science/Masters of Occupational Therapy and 4664 - Master of Occupational Therapy. To undertake this unit, students must comply with the following special requirements: Prior to enrolling in this unit students must have: 1) successfully completed an approved Child Protection Workshop 2) submitted a Prohibited Employment Declaration prior to 1 June 2010 or a Working with Children Check Student Declaration after 1 June 2010 3) possess a current WorkCover Authority approved First Aid Certificate.

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The productivity role is a key aspect of adult life for most people. Occupational therapists play a major role in assisting clients who have had their productivity role affected in some way. This unit explores the importance of productivity for adults, in particular those engaged in paid employment. The focus of this unit is the rehabilitation of the injured worker within the context of the OH&S legislation and the WorkCover case management system. In addition, this unit will explore vocational counselling and rehabilitation for clients with psychosocial, cognitive and physical disabilities.

400082.5 Essentials for Best Practice in Midwifery

Credit Points 10 **Level** 7

Prerequisite

400950.2 Introduction to Midwifery 1 AND **400951.2** Introduction to Midwifery 2

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This unit provides students with the opportunity to critically evaluate and apply an evidence-based approach to midwifery practice. The unit addresses the value of evidence-based midwifery practice, overviews the contribution of different research approaches to midwifery knowledge development and assists students to develop skills to locate and critique sources of evidence including systematic reviews, meta-analysis, meta-synthesis, integrative reviews, and clinical guidelines. Students are encouraged to become critical consumers of evidence relevant to midwifery practice and to appreciate the process of practice development and practice change.

400975.1 Ethics in Health Research

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a Postgraduate course.

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This unit equips students to explore ethical issues impacting on the conduct of research in the health setting. Students will critically explore ethical issues and their implications in health research, understand the process of gaining Human Research Ethics Approval for research, gain practical experience of developing an ethically sound research plan and application for human ethics approval.

400567.2 Evidence Based Practice in Chinese Medicine 1

Credit Points 10 **Level** 7

Assumed Knowledge

Equivalent to undergraduate training in Traditional Chinese Medicine or acupuncture

.....

This unit will provide the student with the opportunity to develop the skills necessary to search, understand and critically appraise scientific literature related to Chinese medicine. Basic research methods will be introduced sufficient to support the student through this unit. This unit will introduce and develop concepts and principles of evidence-based practice applied to Chinese medicine and explore specific research developments in Chinese medicine.

400568.2 Evidence Based Practice in Chinese Medicine 2

Credit Points 10 **Level** 7

Assumed Knowledge

Equivalent to undergraduate training in Traditional Chinese Medicine or acupuncture

.....

This unit will focus on the integration of Traditional Chinese Medicine (TCM) and Western medicine in the diagnosis and management of disease. A significant focus of this unit will be on the interpretation and integration of medical diagnostic tests with TCM diagnosis, and will include an examination of the research that attempts to validate TCM theory and diagnostic techniques. Students will learn how to integrate and prioritise clinical information and undertake the development of a research proposal.

400206.2 Evidence-based Nursing

Credit Points 10 **Level** 7

Assumed Knowledge

A basic knowledge of research methods at undergraduate level plus basic nursing knowledge and clinical nursing experience.

Special Requirements

Students must be enrolled in a postgraduate course.

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This unit is designed to develop students' knowledge of the principles and processes necessary for evidence-based clinical practice. General concepts associated with evidence-based nursing are explored. In addition students are assisted to formulate focussed clinical questions and conduct a comprehensive literature search for research evidence that may assist in answering such questions. Issues and techniques involved in the rigorous appraisal of research reports are addressed. The importance of clinical significance and individual patient preferences when making clinical judgments about the implementation of research findings are also explored.

400865.2 Evidence-Based Practice

Credit Points 10 **Level** 3

Assumed Knowledge

Knowledge and skills of Foundations of Research & Evidence-based Practice and Research Methods (Qualitative and Quantitative).

Prerequisite

400864.3 Research Methods (Quantitative and Qualitative)

Equivalent Units

400154 - Integrating Evidence into Practice

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In this unit, students incorporate previous research and biostatistics knowledge to develop new skills for using evidence to inform all aspects of their professional practice. Evidence-based practice uses an enquiry led approach to manage expanding and uncertain knowledge by formulating answerable questions, effectively searching literature, critically appraising evidence validity and results, and to assess its significance in clinical practice and healthcare decision-making.

400997.1 Exercise Rehabilitation

Credit Points 10 **Level** 3

Assumed Knowledge

Human anatomy, human physiology and pathophysiology.

Prerequisite

400982.1 Core Competencies in Physiotherapy Practice OR **400987.1** Neurological Physiotherapy Practice

Special Requirements

Students must be enrolled in 4662 Bachelor of Health Science/Master of Physiotherapy, 4667 Master of Physiotherapy, and 4668 Bachelor of Health Science (Honours)/Master of Physiotherapy programs. Students in courses 4662 Bachelor of Health Science/Master of Physiotherapy and 4668 Bachelor of Health Science (Honours)/Master of Physiotherapy are to complete prerequisite unit 400982 - Core Competencies in Physiotherapy Practice. Students in course 4667 Master of Physiotherapy are required to complete prerequisite unit 400987 Neurological Physiotherapy Practice. Students in this program are required to participate fully in practical classes. This involves disrobing to shorts and singlet or swim-suit equivalent in mixed gender classes. Students will practice hands-on physiotherapy examination and treatment techniques on both genders, and will personally experience these techniques which will be performed on them by other students and relevant academic staff.

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Exercise Rehabilitation focuses on client management with exercise in a variety of settings across the lifespan. This will require effective communication skills, ethical and professional behaviour and an appreciation of interprofessional care. Professional competencies addressed in this unit include an understanding of the normal physiological responses to exercise, the implications of pathology and exercise and the integration of exercise based interventions with other physiotherapy modalities.

300719.2 Fire and Building Regulations

Credit Points 10 **Level** 7

Assumed Knowledge

This unit assumes that the student has undertaken coursework in building construction, building surveying, engineering, science, architecture or a related area or has gained the equivalent knowledge by working in the construction industry in an appropriate capacity for at least two years.

Equivalent Units

BG706A - Fire and Building Regulations

.....

This unit introduces the Building Code of Australia (BCA) and in particular those aspects relevant to fire safety in building design and construction. The topics covered with reference to the BCA include its general provisions, structure and philosophy. Students are required to understand how to meet the BCA requirements for fire safety. Covered in this unit are performance based versus prescriptive approaches and the regulation of fire safety maintenance. The unit also discusses the relationship

between research in the development of building codes and the role played by approval/certifying authorities in compliance assessment.

300709.2 Fire Engineering 1 (Fire Dynamics)

Credit Points 10 **Level** 7

Assumed Knowledge

Physics, chemistry, engineering mathematics.

Equivalent Units

EN806A - Fire Engineering 1 (Fire Dynamics)

.....

This unit aims to develop a detailed knowledge of fire behaviour and dynamics in the built environment. Students will be able to understand fuels and combustion processes; the chemistry of combustion; flammability limits; ignition characteristics; and different types of flames and fire plumes. The content also covers the burning of liquids and solids; flammable vapour/air mixtures; extinction and extinguishment; flame spread mechanisms and modeling; flashover; fire resistance and fire severity; projection of flames from burning compartment openings; spread of fire from a compartment; production and measurement of smoke; and smoke movement.

300710.2 Fire Engineering 2 (Fire Models)

Credit Points 10 **Level** 7

Assumed Knowledge

Physics, chemistry, engineering mathematics, building regulations, fire dynamics, building fire services.

Equivalent Units

PH703A - Fire Engineering 2 (Fire Models)

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This unit aims to develop an understanding of various types of computational tools used in engineering design of fire safety systems. The fundamentals of control volume, applications of conservations laws in modeling and the form of predictive equations are explained. The content includes evaluations of fire severity, fire resistance levels of various types of building structures and elements. Hand calculation equations, zone models and field models are covered. The limitations of the models in representing the real phenomena are also discussed.

300718.2 Fire Engineering Design and Assessment

Credit Points 10 **Level** 7

Assumed Knowledge

Fire safety engineering principles, building regulations, fire dynamics, building fire services, fire modelling and human behaviour in fires.

Equivalent Units

BG811A - Fire Safety Systems (Life Safety)

.....

This unit helps to develop a high level of knowledge of fire safety systems relevant to life protection and the design and assessment of such systems. The unit covers the process of fire safety engineering design and assessment including the fire engineering brief, conceptual design, regulatory objectives, fire safety engineering subsystems, verification methods, timeline analysis, design fires, evaluation of performance of passive and active fire protection systems, risk analysis and fire engineering project reporting.

300714.2 Fire Engineering Principles

Credit Points 10 **Level** 7

Assumed Knowledge

This unit assumes that the student has undertaken undergraduate coursework in building construction, building surveying or a related area or has gained the equivalent building construction and building surveying knowledge by working in the construction industry in an appropriate capacity for at least four years.

Equivalent Units

EN804A - Fire Engineering Principles

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The unit describes the principles used to design fire safety systems for life safety objectives and the processes that need to be followed to complete a fire safety engineering study. The role of other objectives are also introduced. The unit covers the process of fire safety engineering design and assessment including the fire engineering brief, conceptual design, regulatory objectives, verification methods, evaluation of performance of fire protection systems, risk analysis and fire engineering reporting. Basic concepts and descriptions of fire safety engineering tools are also included.

300712.2 Fire Technology Principles

Credit Points 10 **Level** 7

Assumed Knowledge

This subject assumes that the student has undertaken undergraduate coursework in building surveying, planning or related areas or has gained the equivalent building construction knowledge by working in the construction industry in an appropriate capacity for at least four years.

Equivalent Units

PE804A - Fire Technology Principles

.....

The unit introduces students to the basic principles of fire behaviour so that they can appreciate fire safety systems and interpret fire safety engineering design concepts. The unit covers the basics of combustion, building fire characteristics, smoke movement and responses of fire safety devices. The unit provides the basis for understanding fire safety engineering and the techniques and tools used in fire safety engineering.

300125.2 Fundamentals of Computer Science

Credit Points 10 **Level** 1

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This unit introduces a broad range of topics which make up the study of computer science. The four broad areas to be

examined are Machine Architecture (data storage and manipulation), Software (operating systems, networks, programming languages), Data Organisation (data structures, file structures, database structures) and Algorithmic Machines (Theory of Computation). The treatment is intended to prepare students for later in-depth treatment of these topics.

400418.2 Health Advancement and Health Promotion

Credit Points 10 **Level** 7

Equivalent Units

E7234 - Health Advancement, E7306 - Health Advancement

Special Requirements

Students must be enrolled in a postgraduate course.

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By investigating and addressing the multilevel determinants of health outcomes and inequalities, health promotion initiatives aim to improve the health and wellbeing of individuals and societies. In this unit, we will nurture an understanding of concepts and models of health promotion, evaluate the relative successes of recent and classic initiatives within Australia and overseas, and critically engage with debates concerned with the most appropriate strategies for tackling health inequalities in the context of major societal challenges (e.g. population ageing, urbanisation and climate change). Core competencies are nurtured (e.g. Plan and evaluate an intervention) to prepare students for practicing and further study in the field of health promotion.

400837.1 Health and Socio-political Issues in Aged Care

Credit Points 10 **Level** 7

Equivalent Units

400239 - Contemporary Issues in Aged Care

Special Requirements

Students must be enrolled in one of the following courses 4569, 4570, 4540, 4541, 4602, 4603, 4604, 4651, 4652 or 4653.

.....

This unit provides an insight into the contemporary world of older people though selected themes. Students will gain experience dealing with the ways older people are represented through the media, health and social policies, laws and legislation, and the way that these representations impact on their lives. In particular ageism and its link to health and sociopolitical issues in older people is examined. Additional issues for older people in regard to their opportunities to access health care services and their experiences of these services are also addressed.

400837.2 Health and Socio-political Issues in Aged Care

Credit Points 10 **Level** 7

Equivalent Units

400239 - Contemporary Issues in Aged Care

Special Requirements

Students must be enrolled in one of the following courses 4569, 4570, 4540, 4541, 4602, 4603, 4604, 4651, 4652 or 4653.

.....

This unit provides an insight into the contemporary world of older people though selected themes. Students will gain experience dealing with the ways older people are represented through the media, health and social policies, laws and legislation, and the way that these representations impact on their lives. In particular ageism and its link to health and sociopolitical issues in older people is examined. Additional issues for older people in regard to their opportunities to access health care services and their experiences of these services are also addressed.

400967.2 Health Economics and Comparative Health Systems

Credit Points 10 **Level** 7

Equivalent Units

E7232 - Economics and Organisation of Health Services, 400420 - Health Economics and Comparative Health Systems

Special Requirements

Students must be enrolled in a postgraduate course.

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The unit explores contemporary examples of the role of economics in the organisation, funding and provision of health services. Case examples include, Australia, America, China, Hong Kong, Scandinavia, United Kingdom and India. Students use the principles of economics to assess funding of health with a focus on the interface between economics, ethics and equity in decision making. They also consider the tendency for health systems to be organised around economic principles in areas such as, contracting out, health insurance and pharmaceuticals. Students are encouraged to reflect on the challenges and future directions of their own health system in the context of the unit components.

400845.2 Health Financial Management

Credit Points 10 **Level** 7

Equivalent Units

400420 - Health Economics and Comparative Health Systems, 400544 - Resources management in Aged Care

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This Unit provides health leaders with an introduction to financial management in health and aged care settings as a basis for understanding the impact of leadership decision-making on financial outcomes and how financial decision-making impacts on clinical service delivery. Content includes an overview of health economics and economic evaluation, health care funding models, the principles, practices and tools for financial planning and management, basic accounting principles and financial terminology and using financial information and reporting for negotiating financial plans, tracking and evaluating financial

performance and using financial information in decision-making within the clinical environment.

400210.2 Health Promotion and the Nurse

Credit Points 10 **Level** 7

Assumed Knowledge

Students require fundamental knowledge and understanding of health and wellness concepts at the undergraduate level, with experience as a registered nurse in health care settings.

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The challenge for nursing in terms of health promotion is to acknowledge the complex interrelatedness between a person's social and economic situation, their sense of power and control over their life and their physical, emotional and spiritual well-being, i.e. To understand that health is determined by the totality of a person's life circumstances and their inherent traits. This unit uses a social health perspective to examine evidence-based health promotion strategies that can be implemented in the context of nursing practice.

400836.1 Health Promotion: A Primary Health Care Approach

Credit Points 10 **Level** 7

Equivalent Units

400413 - Context of Health Promotion

Special Requirements

Students must be enrolled in Courses 4569 - Master of Primary Health Care or 4570 - Graduate Diploma in Primary Health Care.

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An individual's personal characteristics and their family, social and community environments have complex interrelationship with their health and health behaviours. The challenge for health professionals is to understand this complexity and encourage the practice of health promotion within a primary health care framework so enabling people to achieve a sense of power and control over their lives. The unit explores the health of individuals and communities in the context of health promotion. Evidence-based health promotion strategies are examined using social health and ecological perspectives.

400844.2 Health Services and Facilities Planning

Credit Points 10 **Level** 7

Equivalent Units

51109 - Strategic Analysis and Decision Making

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Planning occurs at all levels within all health organisations, government, non-government and in the private sector. There is a hierarchy in planning health services with some global overarching policy documents, national agreed priorities which affect corporate and regional plans as well as local services and projects. Planning focuses on future directions for health, is value based and resource allocation driven. The process of planning will be outlined including how to conduct a needs analysis, develop an evidence based approach, consult with stakeholders including the community, document an implementation plan and evaluate outcomes.

400843.2 Health Workforce Planning

Credit Points 10 **Level** 7

Equivalent Units

46518 - Human Resources Management; 400545 - Workforce Planning and HR Issues in Aged Care, 200718 - Human Resource Management

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This is a flexible learning unit looking at Human Resources Management (HRM) as a strategic activity of health organisations especially as workforce shortages pose significant challenges to the health, welfare and aged care sectors. The workforce, with appropriate knowledge and expertise, is essential to the efficient and effective delivery of quality health services. Successful organisations shape their workforce to anticipate current and future business directions and goals. Workforce planning is a crucial element of this approach and its success.

400831.2 Healthy Families and Communities

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge of Primary Health Care and families in Australian society at an undergraduate level, augmented with clinical experience at a general Registered Nurse or Registered Midwife level.

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This unit explores the diversity and complexity of families and communities by examining differing cultural and social values, beliefs and practices relating to family structure, functioning and parenting practices. Students will be encouraged to reflect on their own cultural values and beliefs and how these influence practice when working with children and families. The unit will provide an introduction to community needs, assessment and principles of community development. Focusing on contemporary issues, content includes transition to parenthood, father inclusive practice, parenting children with disabilities, the changing role of gradnparents and carers in Australian society and how neighbourhood and communities influence outcomes for children. This unit will provide students with foundational knowledge in identifying and supporting families with vulnerabilities and fostering resilience. Child protection issues will be addressed.

300570.3 Human-Computer Interaction

Credit Points 10 **Level** 3

Equivalent Units

300160 - Software Interface Design

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A key component to the discipline of Information Systems is the understanding and the advocacy of the user in the development of IT applications and systems. IT graduates must develop a mind-set that recognizes the importance of users and organizational contexts. They must employ user-

centered methodologies in the development, evaluation, and deployment of IT applications and systems. This unit examines human-computer interaction in order to develop and evaluate software, websites and information systems that not only look professional but are usable, functional and accessible.

400835.1 Infant Mental Health

Credit Points 10 **Level** 7

Assumed Knowledge

Fundamental concepts of infant and child physical and mental health at undergraduate degree level.

Equivalent Units

400209 - Introduction to Infant Mental Health - Child and Family Health Nursing

.....

This unit will provide an overview of the issues that impact on infant mental health. Theoretical frameworks influencing the study of infant-parent relationships will be discussed. Nursing management strategies relating to infant mental health disorders and the promotion of positive parent-child relationships will be examined. These form a focal point of this unit.

300515.2 Instrumentation and Measurement (PG)

Credit Points 10 **Level** 7

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This unit covers all topics associated with the measurement and presentation of physical parameters. A wide range of transducers are presented in detail, while instrumentation includes a detailed analysis of a multitude of analog and digital circuits used to amplify, transmit and display electrical signals. The application of these modules in modern measurement equipment is discussed.

300769.2 Intelligent Agents for E-Markets

Credit Points 10 **Level** 7

Assumed Knowledge

This unit requires basic skills in programming with either JAVA or C++ as the programming language.

Incompatible Units

300245 Intelligent Agents; 300385 Automated Negotiation and e-trading

.....

This unit introduces the intelligent agent technology and its applications to e-business. Students will learn the basic theories and algorithms that are used in intelligent agent design and electronic market development. A specific electronic market simulation system will be introduced. Students will have the chance to use this system to build up and practise their skills in developing automated trading agents and e-markets.

300566.2 Introduction to Health Informatics

Credit Points 10 **Level** 2

Assumed Knowledge

Familiarity with use of common business software eg word proceesing, spreadsheets, database.

.....

This unit introduces key concepts and skills required in the emerging Health Informatics domain including: Australian and International healthcare data representation and interchange standards; health care data modelling including patient journey modelling; overview of health information systems with a focus on decision support and clinical systems; telehealth and communication technologies; and electronic health records.

400950.2 Introduction to Midwifery 1

Credit Points 10 **Level** 7

Corequisite

400951.2 Introduction to Midwifery 2

Equivalent Units

400076 - Fundamentals of Pregnancy and Birth

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This unit provides students with an understanding of normal pregnancy and birth. Emphasis will be placed on the biological, physiological, psychosocial and cultural aspects of pregnancy and birth. Students will engage in critical analysis of midwifery care of women during normal pregnancy and birth and apply principles of primary health care. The unit provides an understanding of the role of the midwife in caring for a woman within a continuity of care model.

400951.2 Introduction to Midwifery 2

Credit Points 10 **Level** 7

Corequisite

400950.2 Introduction to Midwifery 1

Equivalent Units

400077 - Fundamentals of the Postnatal Period and the Newborn

.....

This unit provides students with an understanding of the normal postnatal and newborn period. Emphasis will be placed on the biological, physiological, psychosocial and cultural aspects of the postnatal period. The unit also examines the adaptation of the newborn to extra uterine life and care within the neonatal period. Students will engage in critical analysis of midwifery care of women during the puerperium and of the newborn and apply aspects of primary health care. The unit provides an understanding of the role of the midwife in maintaining a woman and family focus within a continuity of care model during the postnatal period.

400942.3 Introduction to Podiatry and Clinical Education

Credit Points 10 **Level** 7

Assumed Knowledge

Anatomy, Pathophysiology 1

Special Requirements

Must hold a: 1. Senior First Aid Certificate and completed the OxyViva Resuscitation and EpiPen components as administrated by a work cover accredited educational body. 2. National Criminal History Record Check (National Police Certificate) 3. Prohibited Employment Declaration Form prior to 1st June 2010 or a Working with Children Check Student Declaration after 1st June 2010 4. NSW Health Department Category A Vaccinations

.....

This is the first unit to introduce Master's entry students to some basic theoretical and practical components related to podiatric practice with an emphasis on clinical competencies in patient communication and management that will be reinforced in the one week clinical placement in either a private practice or public sector setting. In addition, a clinical component will introduce students to skills required to treat basic skin conditions and evaluate the functional anatomy, gait and cursory examination as well as communication skills which are necessary components for the Podiatric Practice clinical units. Furthermore, general clinical treatment techniques will be covered such as chair side devices, strapping and removable pads to more complex skills such as the manufacture of non-cast orthotic devices will be covered.

300260.2 IT Project Management

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course.

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This unit is designed to provide students with an opportunity to learn and apply the knowledge, values and skills of consultancy, project management, and research by undertaking an approved computer-related project, preferably on behalf of a client. The unit covers preparing and presenting project proposals in web-engineering and design and e-business areas, project management, time management, communication skills, and the evolving legal, ethical, and social responsibilities of IT professionals. Students may work in teams or individually, under the supervision of a staff member, to plan and investigate their project. In this unit students prepare and begin projects that they implement the following session in 300261IT Project Implementation. Both units are compulsory for MIT candidates.

400994.1 Laparoscopic Hysterectomy

Credit Points 10 **Level** 7

Special Requirements

Students must be an advanced trainee in O&G undertaking a fellowship at Blacktown Hospital. Students undertaking this unit must be enrolled in 4690 Master Surgery in Advanced Gynaecological Surgery

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Students undertaking this unit will have a detailed knowledge of open hysterectomy at commencement. This unit will extend their knowledge in theoretical and practical terms so that they have a solid foundation for developing their skills in laparoscopic hysterectomy.

400414.2 Leadership and Change

Credit Points 10 **Level** 7

Equivalent Units

NU806A - Processes of Change

Special Requirements

Students must be enrolled in course 4569 - Master of Primary Health Care, 4602 - Master of Aged Care Management or 4603 - Graduate Diploma in Aged Care Management to undertake this unit.

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Within the context of a society where change is ongoing, leadership is required in order to achieve optimum outcomes. Students in this unit will be encouraged to critically explore leadership styles, leadership and change theories, leadership in learning organisations and the community within a primary health care framework. This unit will enable students to assess both the internal and external environments of organisations, communities and individuals as the need for change is identified, planned and implemented. The unit identifies the central strategies necessary for the development of leaders who are able to achieve sustainable change outcomes.

400778.2 Leadership and the Development of Organisational Capacity

Credit Points 10 **Level** 7

Assumed Knowledge

Understanding of the principles of leadership and management theories and the attributes of effective leadership in a changing health care environment.

Special Requirements

Students must be enrolled in a postgraduate course.

.....

This unit examines the concept, form and structure of health care organisations. Organisational theory is explored and used to analyse a range of structures used in nursing and contemporary health care. Factors which influence organisational design, function and effectiveness are explored and discussed including: organisational behaviour, strategy, culture, power and politics, technology, sustainability and effectiveness. A major focus in the unit is planning for strategic organisational development to meet the challenges of rapid change and the need for performance improvements in patient care delivery. Concepts related to the strategic development of workforce capacity in the health care arena are considered through the application of a range of theories including the learning organisation. Leadership will be examined within the

context of the unit with a particular emphasis on change management.

400777.3 Leadership for Quality and Safety in Health Care

Credit Points 10 **Level** 7

Equivalent Units

400842 - Quality and Safety in Health Care

Special Requirements

Students must be enrolled in a postgraduate courses. Students enrolled in course 4673 must have passed the following three units before they can enrol in this unit - 400220 Contemporary Professional Practice in Mental Health Nursing and 400206 Evidence-based Nursing and 400235 Leadership in Clinical Practice.

.....

Increasingly clinical leaders, practitioners and health service managers are being held accountable for improving the quality and safety of patient care and for developing a culture of quality improvement within their teams. In this unit students learn about quality, patient safety and governance frameworks and strategies that they can employ within healthcare to improve system performance, patient safety and patient outcomes. The main approaches used to address quality of care and patient safety are examined and their applications critiqued. Students will explore leadership issues for developing systematic, coherent quality improvement frameworks and quality initiatives that can be applied within their own sphere of practice.

400235.2 Leadership in Clinical Practice

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course.

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We are all confronted with the challenge of leadership, regardless of nursing speciality, role or status. Encompassed within leadership is knowledge of self, relevant theories, skills and political awareness which are developed through higher education. By developing leadership skills and knowledge we can influence better outcomes for our patients/clients and create more positive working environments. In the unit, Leadership in Clinical Practice, nursing leadership arising from expert clinical practice is explored as a general notion rather than as one arising from within any particular clinical speciality. Content includes theories, concepts and styles of leadership, the development of leadership potential, motivation, coaching, and mentorship, concepts of power, authority and empowerment and discussion of contemporary leadership issues. Assignments provide students with the opportunity to apply new knowledge about leadership to their practice, whether they be in management, education or clinical roles.

300400.3 Managing for Sustainable Development

Credit Points 10 **Level** 7

Prerequisite

300397.2 Perspectives of Sustainable Development

Equivalent Units

EH825A - Environmental Management Core Studies 2, EH832A - Environmental & Occupational Health Development and Management

Special Requirements

Students must be enrolled in courses 1641, 1642, 3596, 3599, 3602, 3603, 3605, 3606, 3647, 473A, 475A or 475E.

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This Unit examines environmental management policy and its practice in a variety of settings. In terms of policy, the unit begins with a brief overview of the policy principles associated with the concept of 'sustainable development'. In terms of management practice students are invited to select a vocationally relevant change strategy from a range introduced in the study materials. These include; National and Local Planning, ISO 140000, and Healthy Settings. The implications of the use of one of these strategies (or some agreed alternative) in their workplace/community is addressed in the context of change management, organisational learning, and policy development.

300597.2 Master Project 1

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge in engineering, construction, built environment and related disciplines.

Equivalent Units

300189 - Master of Engineering Specialist Reading, 200327 - Built Environment Project, 200328 - Built Environment Research Project

.....

This unit is a problem based project unit. Students are expected to conduct self studies under supervision by academic staff. Students will identify research topics in consultation with supervisors, carry out literature survey in the fields of engineering and building construction, define research objectives and scope, establish research methodology and prepare a research plan.

300598.2 Master Project 2

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge in engineering, construction, built environment and related disciplines.

Prerequisite

300597.2 Master Project 1

Equivalent Units

300188 - Master of Engineering Project, 200328 - Built environment Research Project

.....

This unit is a continuation of unit Master Project 1 and is a problem based project unit. Students are expected to conduct self studies under supervision by academic staff and deliver the final outcomes of the research topics that are proposed in Master Project 1. Students will employ the identified methodologies to carry out the research plans and fulfill the research objectives with the defined scope. Each individual student is required to produce an oral presentation and a final written report in the fields of engineering and building construction. Students will acquire problem solving skills in this unit.

300600.2 Mechatronic System Design

Credit Points 10 **Level** 7

Assumed Knowledge

Equivalent Bachelor of Engineering degree.

Incompatible Units

300512 - Servo Systems Design (PG), 300191 - Mechatronic System Design

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This unit will advance the skills of mechanics, mechanical systems and automation in the practice of engineering design as applied to mechatronic devices and systems. The ability to perform detailed design analysis of machine elements as well as control systems as applicable to manufacturing and process machinery is the intended outcome of undertaking this unit and project-based tasks will form part of the learning process and team work experience.

400217.2 Mental Health Assessment and Application

Credit Points 10 **Level** 7

Assumed Knowledge

Students must be registered nurses with a basic knowledge of mental health, mental illness, and assessment processes at undergraduate level, augmented with experience in mental health settings.

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Assessment is an essential component of the nurse/client interaction in mental health/psychiatric nursing. Effective nursing depends on comprehensive, accurate, systematic and continuous data collection. This assists the nurse and client to accurately identify and document critical client issues and formulate management strategies. This unit prepares the student in the area of mental health assessment, in identifying the factors that affect individual/ family mental health and applying this knowledge to decisions about appropriate interventions.

400773.3 Mental Health for Communities

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in 4569 - Master of Primary Health Care or 4570 - Graduate Diploma in Primary Health Care, 4673 - Master of Mental Health Nursing (Nurse Practitioner) or 4654 - Graduate Diploma in Nursing (Mental Health) to undertake this unit.

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Evolving diversity and changes within societies mean that what are understood as adaptive and maladaptive lifestyles, behaviours and attitudes towards mental illness and traditional healing approaches will vary greatly. This unit presents an outline of the themes and topics central to discussions of mental health and illness within a community. It examines the influences of stereotype and stigma, environment, culture, adaptive ability and support systems for psychological well-being while considering approaches which focus on and promote resilience, attachment, a sense of belonging and empowerment. Contemporary mental health and illness issues relating to selected vulnerable groups will be explored.

400688.2 Mental Health in Chinese Medicine

Credit Points 10 **Level** 7

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This unit will enable practitioners to extend their understanding of the Traditional Chinese Medicine (TCM) diagnosis and management of a range of mental health conditions that are common in the community. A feature of this unit is the integration of TCM and western approaches. Treatment will focus on acupuncture with common patent Chinese herbal medicine treatments included.

400218.2 Mental Health Nursing Practice 1

Credit Points 10 **Level** 7

Assumed Knowledge

Students are required to be registered nurses with basic knowledge of mental health, mental illness, and assessment processes, augmented with experience in mental health settings.

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This unit will assist the student to develop a comprehensive understanding of the nurse-client relationship in mental health nursing, presenting this relationship in its multiple contexts, (e.g., the interpersonal, cultural and socio-political), in order to appreciate factors influencing this relationship and the way it might be 'lived out' in practice. The unit assists students to understand: (1) the nurse-client relationship and its development; (2) the nature of the relationship between the client and nurse; (3) how skilled nurses use this relationship to assist their clients; and (4) how the type of relationship the nurse develops with the client frequently determines the quality of work they do together.

400219.3 Mental Health Nursing Practice 2

Credit Points 10 **Level** 7

Assumed Knowledge

Students must be registered nurses with a basic knowledge of mental health, mental illness, and assessment processes, augmented with experience in mental health settings.

Special Requirements

Students must be enrolled in postgraduate course 4654 - Graduate Diploma Nursing (Mental Health)

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This unit is designed to challenge the student to consider evidence-based practice in mental health nursing. Nurses are required to be accountable for their clinical practice and to be able to argue the evidence for specific nursing interventions. Students undertake critical analysis of evidence-based practice in mental health nursing as a concept, a means of accountability, as a means of defining nursing knowledge. Students will apply evidence-based practice concepts to specific psychiatric disorders and problems.

300398.2 Methods of Researching

Credit Points 10 **Level** 7

Assumed Knowledge

Library research skills, project design and management, an area of science.

Equivalent Units

ASC411 - Research Methodology & Experimental Design, SC808A - Research Methodology & Experimental Design, NU808A - Introduction to Research PHC, EH838A - Research methods: science in context, 300277 - Professional Praxis - Inquiring in Context

Special Requirements

Students must be enrolled in a Postgraduate course.

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This unit aims for postgraduate students to apply scientific methods to a variety of research situations and questions; to understand the range of ways in which additions to knowledge in the applied sciences are initiated, validated and communicated and to prepare and trial research designs best suited to the particular type of issue each student wishes to address. The unit is taught through self-paced, self-directed learning. Class contact will be a three-day workshop, in the first and second half of session, respectively. Students will have the opportunity to field test their own research design.

300768.2 Methods of Scientific Researching

Credit Points 10 **Level** 7

Assumed Knowledge

Appropriate background in a scientific discipline to conduct research in that area. No previous research experience is required.

Equivalent Units

SC809A - Research methodology and experimental design, 14429 - Science research project, proposal and seminar, 300411 - Research methodology and experimental design

Incompatible Units

300398 - Methods of Researching

Special Requirements

Students must be enrolled in a postgraduate degree.

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This unit introduces students to the principles and tools of scientific research. It is designed for students who are undertaking Master of Science and those who have not previously undertaken training in research. Students attend a series of classes covering topics such as critical thinking, problem definition, formulation and testing of hypotheses, analysis of quantitative and qualitative results, communication of research findings, bibliographic techniques and advanced information retrieval methods. Students are required to prepare an intention to research, an annotated bibliography, seminar, and a research poster.

400954.2 Midwifery Knowledge and Practice 1

Credit Points 10 **Level** 7

Prerequisite

400950.2 Introduction to Midwifery 1 AND **400951.2** Introduction to Midwifery 2

Equivalent Units

400080 - Practice of Midwifery 1

Special Requirements

Students must be employed in a participating health facility in the position of student midwife.

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This unit explores the key concepts and principles underpinning midwifery practice such as primary health care, public health and working in partnership. Students will explore historical development of midwifery and examine contemporary models of midwifery care. The unit will also increase awareness of, and ability to critique, the construct of culture in relation to childbirth. Legal and ethical issues in midwifery practice will also be explored. Students will also be gaining clinical skill development within the clinical setting.

400956.2 Midwifery Knowledge and Practice 2

Credit Points 20 **Level** 7

Prerequisite

400950.2 Introduction to Midwifery 1 AND **400951.2** Introduction to Midwifery 2 AND **400953.2** Complex Midwifery 1 AND **400955.2** Complex Midwifery 2 AND **400954.2** Midwifery Knowledge and Practice 1 AND **400082.2** Essentials for Best Practice in Midwifery

Equivalent Units

400848 - Practice of Midwifery 2

Special Requirements

Sstudents must be employed in a participating health facility in the position of student midwife.

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In this unit students will draw on their clinical midwifery and personal experience to explore the diverse meanings of birth and the transition to parenthood. Students will be encouraged to develop skills as reflective practitioners, recognising the impact of personal beliefs and how to develop these beliefs in ways that enhance midwifery practice. Students will strengthen their skills in undertaking

psychosocial assessment, effectively engaging women in services, facilitating groups and working in collaboration with other professionals to support women. This unit also addresses the professional needs of midwives. Students will complete their clinical requirements.

300256.2 Multimedia Communication Systems

Credit Points 10 **Level** 7

Assumed Knowledge

Basic knowledge in digital compression and coding, digital communication systems and fundamentals of data communication and networking.

Special Requirements

Students must be enrolled in a postgraduate course.

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This unit covers advanced concepts and technologies used in emerging multimedia communication systems. Theory, practice and standards for IT professionals endeavouring to build data compression systems for multimedia applications are emphasised.

300193.2 Multimedia Engineering

Credit Points 10 **Level** 7

Assumed Knowledge

Digital Signal Processing. Signals and Systems.

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This unit introduces students to the digital processing of speech and image signals. Topics include speech generation, analysis/synthesis and speech/speaker identification, FFT implementation, shift theorem, filters correlation and convolution, image reconstruction. On the completion of this unit, students will be exposed to the latest developments in the area of multimedia signal processing.

400574.2 Musculoskeletal Health in Chinese Medicine 1

Credit Points 10 **Level** 7

Assumed Knowledge

Equivalent to undergraduate training in Traditional Chinese Medicine.

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This unit along with Musculoskeletal Health in Chinese Medicine 2 will enable practitioners to develop an in-depth understanding of the diagnosis and management of musculoskeletal conditions using acupuncture and Chinese herbal medicine. This unit presents a systematic approach to the assessment of musculoskeletal disorders using Traditional Chinese Medicine (TCM) and specific medical tests and includes a focus on common musculoskeletal disorders, sports injuries and rehabilitation. Musculoskeletal Health in Chinese Medicine 1 and 2 together, provide a strong specialist clinical focus on the management of musculoskeletal health disorders with acupuncture and Chinese herbal medicine.

400575.2 Musculoskeletal Health in Chinese Medicine 2

Credit Points 10 **Level** 7

Assumed Knowledge

Equivalent to undergraduate training in Traditional Chinese Medicine.

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This unit extends students' knowledge and understanding developed in Musculoskeletal Health in Chinese Medicine 1. This unit includes a systematic approach to the assessment and treatment of fractures, systemic and inflammatory disorders. Musculoskeletal Health in Chinese Medicine 1 and 2 together provide a strong specialist clinical focus on the management of musculoskeletal health disorders with TCM.

400999.1 Musculoskeletal Physiotherapy

Credit Points 10 **Level** 3

Assumed Knowledge

Human anatomy, human physiology, and pathophysiology

Prerequisite

400982.1 Core Competencies in Physiotherapy Practice OR **400987.1** Neurological Physiotherapy Practice

Special Requirements

Students must be enrolled in 4662 Bachelor of Health Science/Master of Physiotherapy, 4667 Master of Physiotherapy, and 4668 Bachelor of Health Science (Honours)/Master of Physiotherapy programs. Students in courses 4662 Bachelor of Health Science/Master of Physiotherapy and 4668 Bachelor of Health Science (Honours)/Master of Physiotherapy are to complete prerequisite unit 400982 - Core Competencies in Physiotherapy Practice. Students in course 4667 Master of Physiotherapy are required to complete prerequisite unit 400987 Neurological Physiotherapy Practice. Students in this program are required to participate fully in practical classes. This involves disrobing to shorts and singlet or swim-suit equivalent in mixed gender classes. Students will practice hands-on physiotherapy examination and treatment techniques on both genders, and will personally experience these techniques which will be performed on them by other students and relevant academic staff.

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This unit focuses on client assessment and treatment using manual physiotherapy techniques. An emphasis is placed on diagnostic reasoning and evaluation, understanding the implications of pathology in a physiotherapy context, prioritising problems and integrating manual therapy with other physiotherapy treatments. This requires strong communication skills, ethical and professional behaviour and an appreciation of interprofessional care.

300255.2 Network Management

Credit Points 10 **Level** 7

Assumed Knowledge

Familiar with the fundamentals of computer networking and data communications. In particular, a good understanding

of the OSI model, the internet protocol suite and current internet technologies.

Equivalent Units

54947 - Management of Networked Systems

Special Requirements

Students must be enrolled in a postgraduate course.

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The increasing demand for IT services and the strong expansion of the Internet have resulted in large complex networks. This unit addresses the issues relevant to management of these networks and the services that they offer. It covers the principles and current practices pertinent to integrated management of networks, systems, services and applications. Topics include: management protocols, standards and standards organisations; introduction to and comparison of some commercial management platforms; the impact of web-based management on distributed systems and services; and future trends in management of networked systems.

300695.2 Network Technologies

Credit Points 10 **Level** 7

Assumed Knowledge

The students should be familiar with the fundamentals of computer architecture and programming principles. They should also have a working knowledge of the World Wide Web.

Equivalent Units

300254 Network Technology and Data Communications

Special Requirements

Students must be enrolled in a postgraduate course.

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Computer networking is probably among the fastest growing technologies of our times. The Internet interconnects millions of computers providing many new exciting opportunities and challenges. The Internet and the World Wide Web have provided the communication and infrastructure needed for global collaboration and information exchange. As a result of the rapid growth of networked systems and the diverse applications that run on them, success in many professions depends on a sound understanding of the technologies underlying these systems and applications. This unit explores these issues further and provides the students with such an understanding. It covers the principles and current practices pertinent to computer networking and communications. It describes some of the important technologies and devices used in modern networks for information distribution and data sharing. The unit helps the students to understand important relevant models, protocols and standards in networking and internetworking.

400689.2 Neurological Disorders in Chinese Medicine

Credit Points 10 **Level** 7

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This unit will enable practitioners to extend their understanding of Traditional Chinese Medicine (TCM) diagnosis and management of a range of neurological disorders. A feature of this unit is the integration of TCM and western medical approaches. Treatment will focus on acupuncture with common patent Chinese herbal medicine treatments included.

400987.1 Neurological Physiotherapy Practice

Credit Points 10 **Level** 7

Assumed Knowledge

Neuroanatomy and research methods. Knowledge of clinical pharmacology would be an advantage

Corequisite

400983.1 Orthopaedic Physiotherapy AND **400984.1** Cardiorespiratory Physiotherapy AND **400985.1** Clinical Education A

Special Requirements

Students must be enrolled in the 4667 Master of Physiotherapy. Students in this program are required to participate fully in practical classes. This involves disrobing to shorts and singlet or swim-suit equivalent in mixed gender classes. Students will practice hands-on physiotherapy examination and treatment techniques on both genders, and will personally experience these techniques which will be performed on them by other students and relevant academic staff.

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This unit introduces the scope of physiotherapy practice in Australia and around the world as well as ethical and professional behaviours and communication skills required by physiotherapists. Students will develop skills in conducting simple subjective and objective examinations of posture, range of movement, muscle strength and length and providing gait rehabilitation. These knowledge and skills will be applied to the physiotherapy management of clients with acute neurological disorders. physiotherapy contexts. Neurological competencies addressed in this unit include introductory skills in neurological physiotherapy assessment, interpretation and prioritisation of findings along with the selection and implementation and evaluation of appropriate treatment strategies.

400998.1 Neurological Rehabilitation

Credit Points 10 **Level** 3

Assumed Knowledge

Human anatomy, human physiology, neuroanatomy, and pathophysiology

Prerequisite

400986.1 Neurological Physiotherapy OR **400987.1** Neurological Physiotherapy Practice

Special Requirements

Students must be enrolled in 4662 Bachelor of Health Science/Master of Physiotherapy, 4668 Bachelor of Health Science (Honours)/Master of Physiotherapy and 4667 Master of Physiotherapy. Students in courses 4662 Bachelor of Health Science/Master of Physiotherapy and

4668 Bachelor of Health Science (Honours)/Master of Physiotherapy are to complete prerequisite unit 400986 - Physiotherapy Practice. Students in course 4667 Master of Physiotherapy are required to complete prerequisite unit 400987 Neurological Physiotherapy Practice. Students in this program are required to participate fully in practical classes. This involves disrobing to shorts and singlet or swim-suit equivalent in mixed gender classes. Students will practice hands-on physiotherapy examination and treatment techniques on both genders, and will personally experience these techniques which will be performed on them by other students and relevant academic staff.

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This unit focuses on client assessment and evidence-based physiotherapy management in neurological rehabilitation. This will require strong communication skills, ethical and professional behaviour and an appreciation of interprofessional care. Professional competencies addressed in this unit include clinical reasoning in neurological physiotherapy assessment and treatment, implementation and evaluation of evidence-based interventions and management of complex conditions.

300688.1 Noise Assessment and Control

Credit Points 10 **Level** 7

Assumed Knowledge

Basic understanding of physics and the generation of noise.

Equivalent Units

EH828A - Noise Assessment and Control, EH805A - Noise Assessment and Control

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This unit is designed to provide the student with the theoretical basis and practical skills to be able to assess environmental and occupational noise problems and to recommend the implementation of noise controls. To control environmental noise problem, the noise level must first be. If a problem exists, the magnitude of the problem must be determined and a solution devised. These issues are discussed starting with first principles: the nature of sound both physical and psychological. The implementation of occupational hearing conservations programs in industry are cover in depth especially in the methods of assessment and control. Other topics covered in the unit include aircraft noise, traffic noise and noise.

300144.4 Object Oriented Analysis

Credit Points 10 **Level** 2

Assumed Knowledge

General understanding of what an information system is and how information systems development is undertaken and; Introductory knowledge about system analysis and design, including - basic problem solving experience in computerised information systems - ability to derive systems requirements from problem definitions - ability to produce system models using process, data, object and network modelling. - understanding design and implementation issues include, (but may not be limited to), elementary database design, input, output and user interface design and prototyping.

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Analyzing and modeling requirements using the object-oriented (OO) approach is the core strength of this unit. The system analysis is taken to greater depths within the context of Object Orientation. The Unified Modeling Language version 2.0 (notably use cases, activity diagrams, class diagrams and sequence diagrams) is used as a modeling standard for creating OO models in the problem space. This unit also covers methodologies for OO analysis work through practical case studies.

300146.2 Object Oriented Design

Credit Points 10 **Level** 2

Prerequisite

300144.2 Object Oriented Analysis

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This unit builds on the knowledge of object oriented modelling acquired in the unit Object Oriented Analysis. Systems design is an important activity that takes place when developing new computer-based information systems or when maintaining existing computer-based systems. The object oriented systems design concepts and skills together with a practical knowledge of UML students will develop in this unit are essential for anyone designing contemporary information systems.

400176.3 Occupation and Ageing

Credit Points 10 **Level** 3

Prerequisite

400912.1 Occupational Therapy Process

Special Requirements

Students must be enrolled in courses 4663 Bachelor of Health Science/Masters of Occupational Therapy and 4664 Master of Occupational Therapy. To undertake this unit, students must comply with the following special requirements: Prior to enrolling in this unit students must have: 1) successfully completed an approved Child Protection Workshop 2) submitted a Prohibited Employment Declaration prior to 1 June 2010 or a Working with Children Check Student Declaration after 1 June 2010 3) possess a current WorkCover Authority approved First Aid Certificate.

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The process of ageing will be examined critically using the biopsychosocial model. Students will use research evidence to prepare occupational therapy intervention for older people and their families that promotes quality of life and maximum social participation. Students will reflect on their own attitudes towards ageing and how social stereotypes of older people must be challenged to promote a positive view of this stage of life.

400169.2 Occupation and Mental Health

Credit Points 10 **Level** 3

Assumed Knowledge

Introductory level psychology.

Special Requirements

Students must be enrolled in courses 4663 - Bachelor of Health Science/Masters of Occupational Therapy or 4664 - Master of Occupational Therapy.

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This unit provides an understanding of the aetiology, signs, symptoms and prognosis of psychiatric conditions commonly encountered by occupational therapists. Mental health policies, strategies and consumer issues are examined in relation to the management of mental illness in the community. Occupational therapy theory, assessments, interventions and outcomes related to psychosocial practice are incorporated in the unit to provide a foundation for occupational therapy practice in mental health settings.

400171.2 Occupation and Neurology

Credit Points 10 **Level** 3

Assumed Knowledge

Neuroanatomy.

Prerequisite

300322.1 Neuroanatomy

Special Requirements

Students must be enrolled in courses 4663 - Bachelor of Health Science/Masters of Occupational Therapy or 4664 - Master of Occupational Therapy.

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This unit prepares occupational therapy students to work in a variety of settings with individuals who have a neurological condition. The impact of common neurological conditions on the person, their environment and their occupations will be examined. Students will be exposed to a variety of assessments, interventions and evaluation tools suitable for this client population.

400165.2 Occupation and the Environment

Credit Points 10 **Level** 3

Prerequisite

400908.1 People, Environment and Occupations OR
400911.1 Occupational Therapy Theory and Practice

Special Requirements

Students must be enrolled in courses 4663 - Bachelor of Health Science/Masters of Occupational Therapy and 4664 - Master of Occupational Therapy. To undertake this unit, students must comply with the following special requirements: Prior to enrolling in this unit students must have: 1) successfully completed an approved Child Protection Workshop 2) submitted a Prohibited Employment Declaration prior to 1 June 2010 or a Working with Children Check Student Declaration after 1 June 2010 3) possess a current WorkCover Authority approved First Aid Certificate.

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Students will demonstrate skills in the analysis and modification of the environment using principles of ergonomics and appropriate Australian standards in building design. The ICF will provide the context for assessment and modification of the environment to enable individuals with impairments to overcome activity limitations or restrictions in participation.

300682.2 Occupational and Environmental Hygiene

Credit Points 10 **Level** 7

Assumed Knowledge

Basic understanding of chemistry, physics, biology, workplace hazards OHS law.

Equivalent Units

300394 - Occupational Environment: Assessment and Control, EH845A - Hazardous Chemical Assessment, EH840A - Ergonomics

Special Requirements

Field visits may limit the numbers in any particular activity for OHS reasons. Students will need appropriate PPE such as safety shoes, laboratory coats and safety glasses.

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The unit will expose students to the various methods used in measuring exposures to chemical pollutants, biological pollutants, ergonomics, noise, heat & cold and lighting in both the workplace and general indoor environment. In addition to assessing the exposures student will explore the various methods available of controlling the different types of exposures. The unit will involve measuring various types of potential hazards and comparing the results to current standards before recommending methods of controlling the hazard/s.

300391.2 Occupational Health Management

Credit Points 10 **Level** 7

Equivalent Units

EH831A - Occupational Health Management

Special Requirements

Students must be enrolled in 3602 - Master of Environmental Management, 3605 - Master of Occupational Safety, Health and Environmental Management, 3606 - Graduate Diploma in Occupational Safety, Health and Environmental Management, 3607 - Graduate Certificate in Occupational Safety, Health and Environmental Management, 3647 - Master of Science, 3648 - Graduate Diploma in Science (exit only), 3649 - Graduate Certificate in Science, 4651 - Master of Health Science, 4652 - Graduate Diploma in Health Science or 4653 - Graduate Certificate in Health Science

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This unit focuses on the practice of occupational health within national and international frameworks. It explores issues such as the physical, social and mental impact of the occupational environment on health and includes the human body's response to occupational health hazard exposure through toxicological and epidemiological principles. Strategies for the management of occupational health are examined, together with methods of monitoring and evaluating occupational health programs.

400916.1 Occupational Justice

Credit Points 10 **Level** 7

Assumed Knowledge

Students are expected to have completed all of the units of their first three years.

Prerequisite

400912.1 Occupational Therapy Process

Equivalent Units

400170 - Occupation & Social Participation

Special Requirements

Students must be enrolled in courses 4663 - Bachelor of Health Science/Masters of Occupational Therapy and 4664 - Master of Occupational Therapy. To undertake this unit, students must comply with the following special requirements: Prior to enrolling in this unit students must have: 1) submitted a Criminal Record Check form prior to 1 June 2010 or a Student Undertaking Form after 1 June 2010 and have applied for a National Police Certificate 2) submitted a Prohibited Employment Declaration prior to 1 June 2010 or a Working with Children Check Student Declaration after 1 June 2010. If students are visiting a NSW Health facility they will need to comply with the occupational screening and immunisation policy of NSW Health.

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This unit critically examines practice in the community with a focus on social inclusion and occupational justice. Life perspectives of people experiencing occupational injustice are explored. Current and historical ideologies which underpin global and national legislation and policies on human rights are examined. The promotion of occupational participation through occupational therapy practice is outlined. This unit challenges popular myths and stereotypes of people with disabilities. Issues such as de-institutionalisation, duty of care, dignity of risk, choice-making, rights and negligence are critiqued against legal, ethical and personal perspectives. This unit assists students to develop critical thinking and reflection skills for practice.

400914.1 Occupational Therapy Practice 4

Credit Points 20 **Level** 7

Assumed Knowledge

Completion of all core Occupational Therapy units.

Equivalent Units

400179 - Occupational Therapy Clinical Practice 4

Special Requirements

Students must be enrolled in courses 4663 Bachelor of Health Science/Masters of Occupational Therapy or 4664 - Master of Occupational Therapy. Prerequisite requirements: 400910 - Occupational Therapy Practice 3 (for students enrolled in 4663) or 400911 - Occupational Therapy Theory and Practice (for students enrolled in 4664). To undertake this unit, students must comply with the following special requirements: Prior to enrolling in this unit students must have: 1) successfully completed an approved Child Protection Workshop 2) submitted a Prohibited Employment Declaration prior to 1 June 2010 or a Working with Children Check Student Declaration after 1 June 2010 3) provide evidence of compliance with the occupational screening and immunisation policy of NSW Health 4) possess a current WorkCover Authority approved First Aid Certificate.

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This unit will allow students to consolidate academic knowledge and practice skills in preparation for becoming a competent beginning practitioner. Students will be expected to actively participate in assessment, analysis, goal setting, intervention and evaluation under the supervision of an occupational therapist. Students will complete practice hours in accordance with World Federation of Occupational Therapy accreditation guidelines.

400913.1 Occupational Therapy Practice 4 Project

Credit Points 10 **Level** 7

Assumed Knowledge

Completion of all core Occupational Therapy units.

Special Requirements

Students must be enrolled in courses 4663 Bachelor of Health Science/Masters of Occupational Therapy or 4664 Master of Occupational Therapy. Prerequisite requirements: 400910 Occupational Therapy Practice 3 (for students enrolled in 4663). To undertake this unit, students must comply with the following special requirements: Prior to enrolling in this unit students must have: 1) submitted a Criminal Record Check form prior to 1 June 2010 or a Student Undertaking Form after 1 June 2010 and have applied for a National Police Certificate 2) submitted a Prohibited Employment Declaration prior to 1 June 2010 or a Working with Children Check Student Declaration after 1 June 2010. If students are visiting a NSW Health facility they will need to comply with the NSW Health Occupational Screening and Vaccination Against Infectious Diseases Policy.

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This unit gives students an opportunity to participate in a community based project that is part of the fieldwork program. There will be a focus on a self directed practice approach. The unit allows students to develop professional skills in conducting a project which will benefit a community-based group.

400915.1 Occupational Therapy Practice 4 Workshop

Credit Points 10 **Level** 7

Assumed Knowledge

Completion of all core Occupational Therapy units.

Prerequisite

400913.1 Occupational Therapy Practice 4 Project

Equivalent Units

400179 - Occupational Therapy Clinical Practice 4

Special Requirements

Students must be enrolled in courses 4663 - Bachelor of Health Science/Masters of Occupational Therapy or 4664 -

Master of Occupational Therapy. To undertake this unit, students must comply with the following special requirements: Prior to enrolling in this unit students must have: 1) submitted a Criminal Record Check form prior to 1 June 2010 or a Student Undertaking Form after 1 June 2010 and have applied for a National Police Certificate 2) submitted a Prohibited Employment Declaration prior to 1 June 2010 or a Working with Children Check Student Declaration after 1 June 2010. If students are visiting a NSW Health facility they will need to comply with the NSW Health Occupational Screening and Vaccination Against Infectious Diseases Policy.

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This unit will facilitate the transition from student to occupational therapy practitioner. The unit will allow students to consider employment opportunities for their future and strategies for career and professional development.

400912.1 Occupational Therapy Process

Credit Points 10 **Level** 3

Special Requirements

Students must be enrolled in courses 4663 - Bachelor of Health Science/Masters of Occupational Therapy or 4664 - Master of Occupational Therapy. Pre-requisite for 4663 - 400160 Introduction to Occupational Therapy. Co-requisite for 4664 - 400911 Occupational Therapy Theory and Practice

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This unit provides students with the knowledge and skills to apply the occupational therapy problem-solving process in an evidence-based way, across a diverse range of practice situations. Students will gain knowledge in the application of each stage of the occupational therapy process, learn skills in the selection and implementation of assessments and outcome measures, and undertake intervention planning to suit clients with different occupational needs and health trajectories. Different occupational therapy approaches will be reviewed and students will gain skills in tailoring intervention approaches to suit client need and practice context.

400917.1 Occupational Therapy Specialties

Credit Points 10 **Level** 7

Assumed Knowledge

It is assumed that students entering this unit will have completed all previous occupational therapy units from the third year of the Bachelor of Health Science/Masters of Occupational Therapy.

Prerequisite

400912.1 Occupational Therapy Process

Special Requirements

Students must be enrolled in courses 4663 - Bachelor of Health Science/Masters of Occupational Therapy or 4664 - Master of Occupational Therapy. To undertake this unit, students must comply with the following special requirements: Prior to enrolling in this unit students must have: 1) successfully completed an approved Child Protection Workshop 2) submitted a Prohibited Employment Declaration prior to 1 June 2010 or a Working with Children Check Student Declaration after 1 June 2010 3) possess a current WorkCover Authority approved First Aid Certificate.

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This unit provides occupational therapy students with the opportunity to select from, and undertake advanced study in, a range of occupational therapy clinical specialty areas. Several streams will run concurrently in this unit representing key clinical areas of specialisation in occupational therapy. Students will be able to focus their study, by selecting a combination of clinical specialty streams. Streams will cover relevant clinical content, examining the unique occupational therapy contribution in each specialty area.

400911.1 Occupational Therapy Theory and Practice

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in course 4664 - Master of Occupational Therapy. To undertake this unit, students must comply with the following special requirements: Prior to enrolling in this unit students must have 1) successfully completed an approved Child Protection Workshop; 2) submitted a Prohibited Employment Declaration prior to 1 June 2010 or a Working with Children Check Student Declaration after 1 June 2010; 3) provide evidence of compliance with the occupational screening and immunisation policy of NSW Health; and 4) possess a current First Aid Certificate.

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This unit introduces master's entry students to the theory and practice of occupational therapy. Students will explore the unique contribution of occupational therapists in the health care setting, apply theoretical and philosophical principles underpinning the profession to client groups, and learn analytical skills to examine the relationship between a person, their environment and their participation in daily occupations. The occupational therapy problem solving process will be briefly introduced. In addition, students will study clinical and professional competencies related to practice as a health professional. Finally, the above knowledge and skills will be applied during supervised fieldwork experience.

400983.1 Orthopaedic Physiotherapy

Credit Points 10 **Level** 3

Prerequisite

400982.1 Core Competencies in Physiotherapy Practice AND **400981.1** Clinical Pharmacology AND **400871.1** Professional Health Competencies AND **101614.1** Psychology and Health AND **400864.2** Research Methods (Quantitative and Qualitative)

Corequisite

400984.1 Cardiorespiratory Physiotherapy AND **400986.1** Neurological Physiotherapy AND **400985.1** Clinical Education A

Special Requirements

Students must be enrolled in 4662 - Bachelor of Health Science/Master of Physiotherapy, 4668 Bachelor of Health Science (Honours)/Master of Physiotherapy or 4667 Graduate Entry Master of Physiotherapy programs. Students in this program are required to participate fully in practical classes. This involves disrobing to shorts and singlet or swim-suit equivalent in mixed gender classes. Students will practice hands-on physiotherapy examination and treatment techniques on both genders, and will personally experience these techniques which will be performed on them by other students and relevant academic staff. Students cannot enrol in Year 3 Physiotherapy units until they have completed 160 credit points in the Bachelor of Health Science/Master of Physiotherapy and 4668 Bachelor of Health Science (Honours)/Master of Physiotherapy programs.

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This unit builds on the knowledge and skills developed in the first 2 years of physiotherapy study. It focuses on client assessment and evidence-based management in acute orthopaedic physiotherapy contexts. This will require strong communication skills, ethical and professional behaviour and an appreciation of interprofessional care. Professional competencies addressed in this unit include introductory skills in cardiorespiratory physiotherapy assessment, interpretation and prioritisation of findings along with the implementation and evaluation of appropriate treatment strategies.

400832.1 Partnership in Practice

Credit Points 10 **Level** 7

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Health services across Australia have demonstrated commitment to the roll-out of Family Parternship Training to all health professionals who support families with young children. This unit will provide an overview of the Family Partnership Model through completion of the core Family Partnership Training (30 hours face to face interactive, experiential learning). Students will examine the theoretical framework underlying the model which emphasises the need for highly skilled professional communication to develop supportive and effective relationships with families. Facilitating groups for parents is a key skill of the child and family health nurse. In this unit participants will also study how adults learn and key skills in group process and facilitation. Working in partnership extends to other professionals and agencies. Knowledge and skill enabling professional collaboration will be gained in this unit.

400833.2 Perinatal Mental Health

Credit Points 10 **Level** 7

Assumed Knowledge

Fundamental concepts of mental health at undergraduate degree level.

Special Requirements

Clinical requirements are those stipulated by the NSW Health Department and UWS. These include: Prohibited Persons Employment Declaration (PPED); NSW Health Clinical Placement Authority (Criminal Record Check) and Adult health immunisation. Clinical requirements for this course preclude students other than those enrolled in course code 4649 and 4650 from taking this unit. Patient safety issues are associated.

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Drawing on a socio-ecological model of child health and development, students will gain knowledge of the risk factors that influences outcomes for infants, children and families. Students will explore issues related to parental mental health including antenatal and postnatal depression and anxiety, substance misuse, domestic violence and the impact of isolation and lack of support. In this unit, students will gain skills in psychosocial screening for risk factors, vulnerabilities and protective factors and identifying related developmental issues in children. Topics studied will increase child and family health nurses' knowledge of targeted and specialist intervention for children and families. The unit will also address effective early intervention strategies and programs delivered in the home or in community settings to promote family emotional well being, positive parent child relationships and social support. The unit has a 40 hour clinical placement that is negotiated by the student in a secondary or tertiary level child and family health service.

300196.2 Personal Communication Systems

Credit Points 10 **Level** 7

Assumed Knowledge

Communications Systems. Digital Communications.

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This unit covers the design fundamentals of cellular systems, including frequency reuse, channel assignments, radio wave propagation in mobile environments, modulation techniques, coding techniques, spread spectrum and multiple access. It includes topics from emerging wireless technologies, and third-generation mobile communication systems and standards.

300397.2 Perspectives of Sustainable Development

Credit Points 10 **Level** 7

Equivalent Units

EH824A - Environmental Management Core Studies 1, EH833A - Environmental Management

Special Requirements

Students must be enrolled in the following courses: 3602 - Master of Environmental Management, 3605 - Master of Occupational Safety, Health and Environmental Management, 3606 - Graduate Diploma in Occupational Safety, Health and Environmental Management, 3607 - Graduate Certificate in Occupational Safety, Health and Environmental Management

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This unit explores the philosophy, policies and practice of sustainable development. In exploring environmental philosophy the unit provides students with an understanding of the nature and emergence of both modern and post-modern paradigms that influence the direction and nature of current development policy. The

nature of environmental policy is examined by developing an understanding of how values and attitudes shape a governing ethic about environmental management. The social, political, economic and ecological elements of sustainable development are unfolded to aid students understanding of what needs to be managed. Particular attention is given to those issues confronting developing countries as they move to become industrialised nations yet have high levels of poverty. Finally, the unit introduces the practice of environmental impact assessment as one management tool used in the management process.

400774.2 Perspectives on Nursing

Credit Points 10 **Level** 7

Equivalent Units

400234 - Nursing Knowledge: Concepts, Models and Theories

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This unit addresses the origins and development of nursing knowledge. A major focus is the development and progress of the discipline of nursing. It includes an in-depth exploration of the history and philosophy of nursing science, including epistemology and strategies for theory generation in nursing. The impact of borrowed perspectives on research, theory and practice in the discipline of nursing is also explored. The unit also addresses the development of theoretical perspectives in nursing, including areas of controversy in the discipline. Numerous perspectives on the relationship between nursing theory, research and practice are considered. A major emphasis in the unit is development of knowledge and understanding of the link between nursing theory, research, practice and related issues.

400569.2 Pharmacology of Chinese Medicines

Credit Points 10 **Level** 7

Assumed Knowledge

Equivalent to undergraduate training in Traditional Chinese Medicine.

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This unit will introduce the student to the pharmacology and toxicology of Chinese herbal medicine. The unit will cover the pharmacological principles of Chinese herbal medicines and identify basic active constituents that contribute to the actions of Chinese herbal medicines. This unit will also introduce safety and toxicology of herbal medicines including mechanisms and measurement of toxicity, known potential adverse reactions of commonly used Chinese herbs, known potential interactions with Western pharmaceuticals and management of adverse events.

300708.2 Planning and Development Control

Credit Points 10 **Level** 7

Incompatible Units

BG814A - Development Control, 200498 - Planning for Bushfire Prone Areas

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This unit describes the general planning issues relevant to developments in rural and urban areas. The content covers the factors important in determining the allocation and use of land and resources together with the contributions of development to the built and natural environment. Topics include: urban and rural design issues; the impact of the 3 tiers of Government process on development control, and the legal, political and technical issues relevant to impact assessments. Particular attention will be paid to the role of the private sector in developing controls, self regulation and appeal processes. Planning in both the micro and macro environments is examined in the context of sustainability, community resources and its strategic effects on the recycling of existing land and non-renewable natural resources. Hazardous environments such as bush fires, floods, earthquakes and cyclone are also considered.

400928.2 Podiatric Clinical Block

Credit Points 20 **Level** 7

Assumed Knowledge

Human Anatomy , Podiatry Pre-clinical, Podiatric Techniques 1A, 1B, 2B, 3A, 3B

Prerequisite

400930.2 Podiatric Practice 2 AND **400931.2** Podiatric Practice 3 AND **400937.2** Podiatric Techniques 2A AND **400941.1** Podiatric Techniques 3C

Special Requirements

Podiatry specific - students will be participating in patient assessment and management. It is essential that they have been able to demonstrate competencies in patient assessment, documentation, treatment programs and communication within allied health / community settings. The podiatric practice units in combination with the clinical block placement have been designed to be an integrated suite of units where one unit builds on the clinical competencies of the others. Students must hold: 1. Senior First Aid Certificate and completed the OxyViva Resuscitation and EpiPen components as administrated by a work cover accredited educational body. 2. National Criminal History Record Check (National Police Certificate) 3. Prohibited Employment Declaration Form prior to 1st June 2010 or a Working with Children Check Student Declaration after 1st June 2010 4. NSW Health Department Category A Vaccinations

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This unit will further develop students assessment skills encouraging the student to make the appropriate selection of assessment techniques to diagnose, treat and provide long term health outcomes especially in the public / community based patients. In this clinical unit, students will continue to participate in clinical activities under supervision in public sector placements to manage foot pathologies with increased scope of treating special populations (the high risk foot). Supporting workshop activities will be divided into two areas: Lecture / tutorial format to prepare the student for the block placement and a final feedback session at the end of the placement.

400929.2 Podiatric Practice 1

Credit Points 10 **Level** 3

Assumed Knowledge

Functional Anatomy

Prerequisite

400933.2 Podiatry Pre-Clinical

Corequisite

400942.3 Introduction to Podiatry and Clinical Education

Equivalent Units

400141 - Podiatry Practice 1

Special Requirements

Podiatry specific - students will be participating in patient assessment and management. It is essential that they have been able to demonstrate baseline competencies in patient assessment and infection control procedures. The podiatric practice units have been designed to be an integrated suite of units where one unit builds on the clinical competencies of the others. Students must hold: 1. Senior First Aid Certificate and completed the OxyViva Resuscitation and EpiPen components as administrated by a work cover accredited educational body. 2. National Criminal History Record Check (National Police Certificate) 3. Prohibited Employment Declaration Form prior to 1st June 2010 or a Working with Children Check Student Declaration after 1st June 2010 4. NSW Health Department Category A Vaccinations

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This unit will introduce students to the first clinical unit in the series of 4 where students will demonstrate basic competencies in patient assessment, communication and management skills. The student will also be introduced to basic skills in mechanical therapy as part of the clinical therapies unit. In this unit students will participate in clinics as informed and guided observers, and will commence elementary assessment and diagnostic skills. The activities will be divided into four areas: new patient clinics, clinical tutorials, clinical therapies and a one-week external clinical placement at the end of semester.

400930.3 Podiatric Practice 2

Credit Points 10 **Level** 3

Assumed Knowledge

Functional Anatomy, Podiatry Pre-clinical, Podiatric Techniques 1A, 1B

Prerequisite

400929.2 Podiatric Practice 1

Equivalent Units

400145 - Podiatric Practice 2

Special Requirements

Podiatry specific - students will be participating in patient assessment and management. It is essential that they have been able to demonstrate baseline competencies in patient assessment and infection control procedures. The podiatric practice units have been designed to be an integrated suite of units where one unit builds on the clinical competencies of the others. Must hold a: 1. Senior First Aid Certificate and completed the OxyViva Resuscitation and EpiPen components as administrated by a work cover accredited educational body. 2. National Criminal History Record Check (National Police Certificate) 3. Prohibited Employment Declaration Form prior to 1st June 2010 or a Working with Children Check Student Declaration after 1st June 2010 4. NSW Health Department Category A Vaccinations

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This unit will further develop students assessment skills encouraging the student to make the appropriate selection of techniques (biomechanical assessments) and to introduce the student to the diagnosis and management of a variety of simple foot pathologies. In this unit, the second of the four clinical practice units, students will participate in assessments of patients under supervision and continue with the management of foot pathologies. Clincial activities will be divided into five areas: General Medicine Clinic, Biomechanical Assessment Clinical, Tutorial, Clinical Therapies and External Clinical Placement.

400931.2 Podiatric Practice 3

Credit Points 10 **Level** 7

Assumed Knowledge

Functional Anatomy, Podiatry Pre-clinical, Podiatric Techniques 1A, 1B, 2B

Prerequisite

400930.3 Podiatric Practice 2 AND **400937.3** Podiatric Techniques 2A

Equivalent Units

400152 - Podiatric Practice 4

Special Requirements

Podiatry specific - students will be participating in patient assessment and management. It is essential that they have been able to demonstrate baseline competencies in patient assessment and infection control procedures. The podiatric practice units have been designed to be an integrated suite of units where one unit builds on the clinical competencies of the others. Must hold a: 1. Senior First Aid Certificate and completed the OxyViva Resuscitation and EpiPen components as administrated by a work cover accredited educational body. 2. National Criminal History Record Check (National Police Certificate) 3. Prohibited Employment Declaration Form prior to 1st June 2010 or a Working with Children Check Student Declaration after 1st June 2010 4. NSW Health Department Category A Vaccinations

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This unit will further develop students assessment skills encouraging the student to make the appropriate selection of assessment techniques to diagnose, treat and provide long term health outcomes. In this unit, the third of the four clinical practice units, students will continue to participate in clinical activities under supervision to manage foot pathologies with increased scope of treating special population groups. Clincial activities will be divided into four areas: Clinic-general, biomechanical and surgical assessments, Tutorial, Clinical Therapies and External Clinical Placement.

400932.2 Podiatric Practice 4

Credit Points 10 **Level** 7

Assumed Knowledge

Functional Anatomy, Podiatry Pre-clinical, Podiatric Techniques 1A, 1B, 2B, 3A

Prerequisite

400931.2 Podiatric Practice 3 AND **400937.2** Podiatric Techniques 2A AND **400941.1** Podiatric Techniques 3C

Equivalent Units

400158 - Podiatric Practice 6

Special Requirements

Students must be enrolled in course 4661 Bachelor of Health Science/Master of Podiatric Medicine, 4665 Master of Podiatric Medicine or 4666 Bachelor of Health Science (Honours)/Master of Podiatric Medicine to enrol in this unit. Students will be participating in patient assessment and management. It is essential that they have been able to demonstrate baseline competencies in patient assessment and infection control procedures. The podiatric practice units have been designed to be an integrated suite of units where one unit builds on the clinical competencies of the others. Students must hold: 1. Senior First Aid Certificate and completed the OxyViva Resuscitation and EpiPen components as administrated by a work cover accredited educational body. 2. National Criminal History Record Check (National Police Certificate) 3. Prohibited Employment Declaration Form prior to 1st June 2010 or a Working with Children Check Student Declaration after 1st June 2010 4. NSW Health Department Category A Vaccinations.

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This unit will further develop students assessment skills encouraging the student to make the appropriate selection of assessment techniques to diagnose, treat and provide long term health outcomes. In this final clinical unit, students will continue to participate in clinical activities under supervision in both the Uniclinic and public sector placements to manage foot pathologies with increased scope of treating special population groups. Clincial activities will be divided into four areas: Clinic-general, biomechanical and surgical assessments, Tutorial, Clinical Therapies and External Clinical Placement.

400934.2 Podiatric Professional Practice Studies

Credit Points 10 **Level** 7

Special Requirements

Podiatry specific.

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This unit will introduce students to the principles of professional development and appropriate requirements to function as a registered podiatrist. As podiatrists may work as a primary provider, as part of a multidisciplinary team, in the public or private health care setting, they require extensive knowledge of many aspects of the management of a practice or business. During a one week conference, students will be introduced to a gumut of principles specific to professional, ethical and legal issues associated with working as a podiatrist and practice and workplace administrative policies and procedures.

400935.3 Podiatric Techniques 1A

Credit Points 10 **Level** 3

Assumed Knowledge

Anatomy – structure and function of the lower extremity is important as the focus of this unit is on abnormalities of the lower limb and subsequent assessment and management of conditions of the foot and leg

Prerequisite

400881.3 Functional Anatomy AND **400933.2** Podiatry Pre-Clinical

Incompatible Units

400142 - Pathomechanics of Human Locomotion, 400144 - Podiatric Medicine

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This unit will introduce students to clinical (practical hands on) and theoretical foundations of human biomechanics of the foot and lower extremity and the mechanics, diagnosis and treatment of pathological conditions. The unit consists of coordinated lectures and practical components to cover the introductory theory of gait analysis, relevant physical examinations (joint, muscle testing to therapeutic options), diagnosing conditions such as shin pain, foot pain (plantar fasciitis, heel spur syndrome or digital deformities) and related treatment options.

400936.3 Podiatric Techniques 1B

Credit Points 10 **Level** 3

Prerequisite

400933.2 Podiatry Pre-Clinical AND **400881.3** Functional Anatomy

Incompatible Units

400140 - Introduction to Radiology, 400143 - Musculoskeletal Disorders of the Lower Extremity

Special Requirements

Podiatry specific.

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This unit will introduce students to clinical and theoretical foundations of the musculoskeletal system conditions that will impact on the function of the lower extremity. Disease processes that affect the joint structure such as osteoarthritis, rheumatoid arthritis, arthropathies, gout, osteoporosis, osteomyelitis, systematic disorders and tumours will be covered. Advanced assessment evaluation will be taught that will include diagnostic techniques, eg. x-rays, ultrasound, magnetic resonance imaging and computer tomography. This will assist in the application and clinical interpretation of presenting disease processes in podiatric settings.

400937.3 Podiatric Techniques 2A

Credit Points 10 **Level** 3

Assumed Knowledge

Regional anatomy of the lower extremity is essential as students will be injecting local anaesthesia into the foot. Infection control and manual dexterity skills are essential which will be covered in Podiatric Practice 1 and Podiatry Pre-Clinical.

Prerequisite

400869.2 Human Anatomy and Physiology 2 AND **400881.3** Functional Anatomy AND **400933.2** Podiatry Pre-Clinical AND **400981.2** Clinical Pharmacology

Equivalent Units

400150 - Surgery for Podiatrists

Special Requirements

Students must hold a Senior First Aid Certificate and must have completed the OxyViva Resuscitation and EpiPen components as administered by a Work Cover accredited educational body.

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This unit will introduce students to local anaesthesia, the theory of surgical procedures and the practice of skin and nail surgical techniques. As such, this unit allows students to assess patients suitability for administration of local anaesthesia; understand procedures involved in obtaining voluntary consent, appreciate, reasonably predict and describe the possible adverse effects of administering local anaesthesia. Surgery will focus the medico-legal requirements, principles of theatre protocol, peri-operative and post surgical management of the patient and nail and skin surgery, in preparation for student undertaking surgery during Podiatric Practice 3 and 4.

400938.3 Podiatric Techniques 2B

Credit Points 10 **Level** 3

Assumed Knowledge

400135 - Clinical Pharmacology and Microbiology. As this unit builds on the concepts presented in Clinical Pharmacology and Microbiology, an understanding of the pharmacokinetics and dynamics of drugs is recommended.

Prerequisite

400981.2 Clinical Pharmacology

Incompatible Units

400146 - Pharmacology and Dermatology

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This unit will introduce students to the principles of pharmacology in podiatry and further develop the understanding of drug prescription issues, with particular focus on drugs of importance to podiatry patients, drug interactions and poly pharmacological issues.

400939.2 Podiatric Techniques 3A

Credit Points 10 **Level** 7

Assumed Knowledge

Anatomy and Physiology taught in core units covering the structure and function of the human body coupled with the content about the mechanics and abnormalities in podiatric specific units with particular focus on assessment, treatment and management of the foot and leg taught in Year 3.

Incompatible Units

400147 - Paediatrics and Sports Medicine for Podiatry, 400153 - Gerontology and Neurology

Special Requirements

Students must be enrolled in course 4661 Bachelor of Health Science/Master of Podiatric Medicine, 4665 Master of Podiatric Medicine or 4666 Bachelor of Health Science (Honours)/Master of Podiatric Medicine.

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This unit will introduce students to clinical and theoretical foundations of biomechanical alignment, trauma, psychological and behavioural factors leading to pain and restricted function of the foot and lower extremity affecting daily living activities. Particular focus will be placed on the mechanics, diagnosis and treatment options of problems experienced in special populations or different age groups in normal daily activities or the sporting arena. Furthermore, this integration will enhance the previously taught assessment and diagnostic techniques in the development of appropriate management and treatment programs of the lower extremity in different populations.

400940.2 Podiatric Techniques 3B

Credit Points 10 **Level** 7

Assumed Knowledge

As this unit builds on the concepts presented in Clinical Pharmacology, an understanding of the pharmacokinetics and dynamics of drugs is recommended.

Incompatible Units

400146 - Pharmacology and Dermatology

Special Requirements

Students must be enrolled in course 4661 Bachelor of Health Science/Master of Podiatric Medicine, 4665 Master of Podiatric Medicine or 4666 Bachelor of Health Science (Honours)/Master of Podiatric Medicine.

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This unit will introduce students to clinical and theoretical foundations of dermatology including the function and structure of the skin, assessment, diagnosis, aetiological factors and the management of disorders of the skin, with particular emphasis on common foot conditions.

400941.2 Podiatric Techniques 3C

Credit Points 10 **Level** 7

Assumed Knowledge

Anatomy and Physiology taught in core units covering the structure and function of the human body coupled with the content about the mechanics and abnormalities in podiatric specific units. There will be a particular focus on pharmacological aspects in podiatric settings involving assessments, treatment and management of the foot and leg taught in Year 3.

Incompatible Units

400151 - The High Risk Foot, 400153 - Gerontology and Neurology

Special Requirements

Students must be enrolled in course 4661 Bachelor of Health Science/Master of Podiatric Medicine, 4665 Master of Podiatric Medicine or 4666 Bachelor of Health Science (Honours)/Master of Podiatric Medicine.

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This unit will introduce students to clinical (practical hands on) and theoretical foundations of the management of the high risk foot. The unit consists of coordinated lectures and practical components to cover the overview of systemic conditions covered in pathophysiology and will explore the management of the foot and lower extremity manifestations associated with vascular, endocrine, neurological and immunosuppression. Particular emphasis will be placed on the foot at risk and podiatry assessment, diagnosis and management in context of a health profession team management approach. Diagnostic assessment techniques, both clinical and laboratory based will be covered. Infection control, wound classification and wound care management will be discussed in detail.

400238.3 Policy, Power and Politics in Health Care Provision

Credit Points 10 **Level** 7

Equivalent Units

HC815A - Policy, Power and Politics in Health Care Provision

Special Requirements

Students must be enrolled in a postgraduate course. Students enrolled in course 4673 must have passed the following three units before they can enrol in this unit - 400220 Contemporary Professional Practice in Mental Health Nursing and 400206 Evidence-based Nursing and 400235 Leadership in Clinical Practice.

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This unit enables students to gain an understanding of the political and social constructions that underpin health care services. It also provides students with the opportunity to explore and critically analyse issues related to the development, implementation and outcomes of health and aged care policies.

400995.1 Port Entry

Credit Points 10 **Level** 7

Special Requirements

Students must be an advanced trainee in O&G undertaking a fellowship at Blacktown Hospital. Students undertaking this unit must be enrolled in 4690 Master of Surgery in Advanced Gynaecological Surgery.

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Students undertaking this unit will have a detailed knowledge of the anatomy of the abdominal wall at commencement. This unit will extend their knowledge in theoretical and practical terms so that they can safely and effectively establish ports for laparoscopic surgery.

400996.1 Power Modalities

Credit Points 10 **Level** 7

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Students undertaking this unit will have a detailed knowledge of power sources in use in open surgery at commencement. This unit will extend their knowledge in theoretical and practical terms so that they are able to safely use power sources at endoscopic surgery.

300197.2 Power System Planning and Economics

Credit Points 10 **Level** 7

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This unit covers planning techniques for energy and electrical power systems. It also covers the economics of various options and reliability of electrical power systems.

400412.2 Primary Health Care and its Applications

Credit Points 10 **Level** 7

Equivalent Units

HC814A - Fundamentals of Primary Health Care, HC807A - Applications of Primary Health Care

Special Requirements

Students must be enrolled in 4569 Master of Primary Health Care or 4570 Graduate Diploma in Primary Health Care.

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This unit explores the impact and relevance of Primary Health Care in its context as a World Health Organization (WHO) strategy for achieving "Health for All". It examines the ways in which Primary Health Care, along with other significant WHO initiatives, provides a framework for the organisation of just and humane health care systems and provides an opportunity for detailed discussion of the complex factors that impact on the health status of populations. The integration of associated theoretical concepts will enable an understanding of the complex dimensions of health and well-being to evolve and then to inform health care practices and the planning of programs that can lead to sustainable health within a primary health care framework.

300684.2 Principles & Practice of Biotechnology 2

Credit Points 10 **Level** 7

Assumed Knowledge

A bachelors degree in biological sciences or equivalent with a sound knowledge in microbiology and biochemistry.

Equivalent Units

MI810A - Principles and Practice of Biotechnology

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The unit will provide an overview of biotechnology and an understanding of the principles involved in this multidisciplinary field. It will also demonstrate the applications of biotechnology and familiarise students with the current developments in this field and the methodology used in its applications.

300683.2 Principles and Practice of Biotechnology 1

Credit Points 10 **Level** 7

Assumed Knowledge

A Bachelors degree in biological sciences or equivalent with a sound knowledge in microbiology and biochemistry.

Equivalent Units

MI810A - Principles and Practice of Biotechnology

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This unit will study the principles and practices of biotechnology by investigating in detail the stages involved in a simulated industrial fermentation process. At every stage, the biotechnology principles and the techniques involved in its application will be studies. The unit is very practically oriented and will provide hands-one experience in a number of biotechnological processes.

300578.3 Professional Development

Credit Points 10 **Level** 3

Assumed Knowledge

Understanding of systems analysis and design.

Equivalent Units

300372 - Professional Preparation and Project Management

Special Requirements

Students must have completed 140 credit points in their course before enrolling in this unit. For students enrolled in 3663 Graduate Certificate in Health Informatics, 3645 Graduate Diploma in IT and 3646 Graduate Certificate in ICT this pre-requisite is not applicable.

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This is a final year unit that builds on foundation and intermediate computing units to prepare students for professional experience. The unit covers the content in three modules as 1) Ethics and Professional Code of Conduct, 2) Project Management, and 3) Legal, Social, Environmental issues, Quality Assurance and IT Compliance. The content covered in these three modules are carefully designed to fill in the gaps in knowledge that is not so far covered previous units in preparing students for the challenging projects units and professional working life ahead. This unit is a pre-requisite to the capstone project, covered in Professional Experience Project unit.

400925.1 Professional Reasoning

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in courses 4663 - Bachelor of Health Science/Masters of Occupational Therapy and 4664 - Master of Occupational Therapy. To undertake this unit, students must comply with the following special requirements: Prior to enrolling in this unit students must have: 1) successfully completed an approved Child Protection Workshop 2) submitted a Prohibited Employment Declaration prior to 1 June 2010 or a Working with Children Check Student Declaration after 1 June 2010 3) possess a current WorkCover Authority approved First Aid Certificate.

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This final year unit focuses on the transition from student to practitioner. The aim of this unit is to provide students with learning opportunities that will consolidate and enhance their competence in professional practice throughout their career. Professional competencies of central concern include advanced clinical reasoning skills, evidence based-practice, reflective practice, personal and career management strategies, self-directed and life long learning. These competencies contribute positively to the effective management of graduates clinical practice in various work contexts, and their future career paths. Acquisition of such skills will allow the graduate to direct and adapt to change in these areas.

400850.2 Professional Topic

Credit Points 10 **Level** 7

Special Requirements

Director of Academic Program/Course Advisor permission is needed for students to be accepted into this unit as it is resource intensive of staff time. Only academically capable students aiming to enrol in a research higher degree after graduating from the Master of Health Science will be accepted.

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This unit is designed to allow high achieving students who have an interest in potentially undertaking higher degree research after graduation the opportunity to comprehensively explore a relevant topic of interest to them.

300580.2 Programming Fundamentals

Credit Points 10 **Level** 1

Equivalent Units

300405 - Fundamentals of Programming, 300155 - Programming Principles 1, 200122 - Business Application Development 1

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As a first unit in computer programming, Programming Fundamentals covers basic computer architecture, basic data and file structures, concept of algorithms,

programming constructs, programming language features and functions, program design, test design, basic documentation. A high level programming language is employed to solve problems in a structured manner.

400858.3 Psychopharmacology For Advanced Practice Mental Health Nurses

Credit Points 10 **Level** 7

Assumed Knowledge

Students are expected to have a working knowledge of mental health assessment and treatment procedures, including basic pharmacological principles and knowledge of drugs used for mental illnesses and disorders.

Prerequisite

400238.3 Policy, Power and Politics in Health Care Provision AND **400777.3** Leadership for Quality and Safety in Health Care AND **400957.2** Biological Considerations in Mental Health and Mental Illness for Advanced Practice

Special Requirements

Students must be enrolled in postgraduate nursing 4673 course. Students must be working in mental health services at an advanced clinical practice level and must nominate a primary supervisor/mentor/assessor a clinical support group.

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This unit examines pharmacological principles including functional neuroanatomy review, pharmacokinetic principles, pharmacodynamic principles, and neuropharmacology. Students examine a number of psychotropic drugs: antipsychotic, mood stabilisers, complementary medicines, drugs of abuse/misuse, antidepressant, anxiolytic and hypnotic drugs in relation to targeted symptoms, titration, side-effects, and monitoring of clients from across the lifespan. Decision-making in psychopharmacology with development of decision algorithms is explored. The importance of appropriate collaborative processes between the nurse practitioner, clients across the lifespan and their families in medication management is addressed.

400416.2 Public Health, Policy and Society

Credit Points 10 **Level** 7

Equivalent Units

E7229 - Health Management: Policy and Society, E7305 - Health Management Policy and Society

Special Requirements

Students must be enrolled in a postgraduate course.

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This unit examines the nature of public health and develops a systemic understanding of various public health policy frameworks and issues. The unit provides the context and history for understanding public health approaches, explores the cultural and social dimensions of health and illness and the economic and political environment in which health policies and strategies are developed and implemented. The unit advocates a view of health that includes an implicit recognition of the physical, social and economic environment, affirms the importance of social justice and equity in health care, and emphasises the importance of inter-sectoral collaboration.

400842.2 Quality and Safety in Health Care

Credit Points 10 **Level** 7

Equivalent Units

400777 - Leadership in Quality and Safety in Health Care

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Health care managers and clinicians are responsible for the quality and safety of patient care within their units. To introduce a culture of safety they must understand and work within current policy, surveillance and governance strategies. In this unit students will study the cultural and governance environments within which quality and safety systems are introduced in health care. Students will also develop skills required to effectively use the tools available for managing and monitoring quality and safety issues within their workplace.

300399.2 Researching Professional Issues

Credit Points 10 **Level** 7

Prerequisite

300398.2 Methods of Researching

Equivalent Units

EH839A - Masters Research Project (1 semester)

Special Requirements

Students must be enrolled in the following courses: 3602 - Master of Environmental Management, 3605 - Master of Occupational Safety, Health and Environmental Management, 3606 - Graduate Diploma in Occupational Safety, Health and Environmental Management

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This unit aims to provide students with the opportunity to develop a high level of conceptual understanding in an area of research relevant to their field of study. Students will develop competencies in reviewing academic literature and in the evaluation and conduct of research.

300677.2 Safety and Risk Management

Credit Points 10 **Level** 7

Assumed Knowledge

Recognition that OHS procedures are legislatively required at the workplace and the ability to recognise the need to protect workers from harm at the workplace. Knowledge of the basics of OHS legislation in the students' jurisdiction.

Equivalent Units

300390 - Safety Management. 300395 - Risk Assessment

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This unit provides a critical insight into the theory and practice of managing safety and health at the workplace with a dual focus on risk management and safety management. Students have the opportunity to develop a safety systems approach concentrating on hazard identification, risk assessment and devising control measures incorporating safety management principles. Safety culture and its influence on OHS practice is also detailed. In addition, the unit addresses the legal underpinning of OHS requirements at the workplace.

Labour market change and the role of government, unions and employer organisations are also examined. Global perspectives on OHS from various jurisdictions ranging from the USA, Hong Kong and China are also scrutinised.

300742.2 Science and Health Research Project PG

Credit Points 20 **Level** 7

Corequisite

300398.2 Methods of Researching OR **300411.3** Research Methodology and Experimental Design

Equivalent Units

EH850A - Masters research project, HT801A - Research Project 811, HT805A - Research Project 821, HT807A - Research Project 831, HT807B - Research Project - Science, HT808A - Research Project 841, 300687 - Science Research Project PG

Special Requirements

Enrolment in this unit by non-Master of Science or Master of Health Science students requires Head of Program permission.

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This unit develops critical and analytical skills by undertaking and completing a research project in an area of relevance. The project is carried out on an individual basis. Research projects are offered in consultation with staff who possess research interests and experience in relevant areas.

300767.2 Science Research Project PG

Credit Points 30 **Level** 7

Corequisite

300398.2 Methods of Researching OR **300768.2** Methods of Scientific Researching

Special Requirements

Enrolment in this unit by non-Master of Science students requires Director of Academic Program/Course Advisor permission.

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This unit develops critical and analytical skills by undertaking and completing a research project in an area of relevance. The project is carried out on an individual basis. Research projects are offered in consultation with staff who possess research interests and experience in relevant areas.

300568.2 Services Computing in Healthcare

Credit Points 10 **Level** 3

Assumed Knowledge

Some ability in design and implementation of Web Applications is desirable but not essential. Students who have worked in the Health sector, or who have gained a broad understanding of Health system and uses of ICT therein may be exempted from the prerequisite unit.

Prerequisite

300566.2 Introduction to Health Informatics

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In this unit students will learn the concepts underpinning the services computing paradigm of 'bridging the gap between Business Services and IT Services'. Services Computing technology includes Web services and service-oriented architecture (SOA), business consulting methodology and utilities, business process modelling, transformation and integration. Students will learn, through the development of practical examples, how to utilise these technologies within a healthcare context.

300160.2 Software Interface Design

Credit Points 10 **Level** 3

Equivalent Units

14947 - Microcomputer Applications Programming , 48544 - Microcomputer Programming, 61251 - Microcomputer Programming

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Computers have become ubiquitous in human society. Humans are now required in interact with computers and computing technology in almost all parts of their lives, particularly in developed countries. In this context software becomes a medium through which people can be provided with a virtual environment where they can satisfy goals related to work and play. This unit explores the theory and practice of design of the interface between this virtual environment and the people who interact with it.

300770.2 Software Testing and Automation

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge about: Software Development Life Cycle; Programming knowledge in one of the Object Oriented programming language for e.g. Java, C++; Scripting Language such as Java Script

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Software Testing and Automation will cover topics in two sections - Fundamentals of Software Testing and Test Automation. Section 1 will enable students to get a good understanding of different types of testing, the entire life cycle of Testing; how to design and prepare Test Cases, Test Data, execute these Test Cases and manage the defects. Students will also learn the importance of exclusive Test Environment for Testing and how to create a Traceability Matrix relating Requirements to Test Cases. Since approaches to testing software have also evolved with rigorous systematic approaches and advanced tools to automate some of the testing tasks. Section 2 will expose students to Test Automation using an automation tool, Object mapping and repository creation, Exception handling, logging and reporting, and Creation and Execution of Automation scripts.

300685.2 Special Issues in Science - PG

Credit Points 10 **Level** 7

Assumed Knowledge

Individual projects or learning programs will assume background skills and knowledge that are appropriate to a

coursework Masters student. Permission of the Head of program will be required for students to enrol in this unit.

Equivalent Units

EH849A - Special Issues In Sustainable Development, EY808A - Special Issues In Environmental Management, SC810A - Special Issues In Science & Technology, HT813A - Personal Study M

Special Requirements

Director of Academic Program/Course Advisor permission is needed for students to be accepted into this unit as it is resource intensive of staff time. Only academically capable students with an identified need for in-depth study in an area not currently covered by existing units will be accepted. Acceptance in the unit will be subject to appropriate supervision being available.

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This is an individual project unit that is designed for the Master of Science program. It provides the student with an in depth understanding of a specific topic relevant to their field of study. It will include information retrieval techniques as well as written and oral communication skills. In addition, it may include the acquisition of technical skills.

51109.3 Strategic Analysis and Decision-Making

Credit Points 10 **Level** 7

Incompatible Units

U51050 - Strategic Management

Special Requirements

Students must be enrolled in a postgraduate program.

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Strategic management processes determine the direction of an enterprise and its viability in the light of the changes in its environments. This unit examines strategic management processes, recognising the interests of stakeholders and a range of external and internal constraints. It critically examines the major theoretical approaches to strategy and emerging trends. A strong emphasis is on the application of knowledge to industry and organisational contexts relevant to the student. Participants research and analyse how decision-making processes, leadership, and organisational politics impact on the strategy process. A dynamic, contingent and contested view of contemporary strategic management processes is presented.

400838.1 Supporting Individuals and Communities in Crisis

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in courses 4569 - Master of Primary Health Care or 4570 - Graduate Diploma in Primary Health Care.

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The planning, development and implementation of primary health care initiatives rest largely on the capacity of health care workers to develop and engage in partnerships with a diverse range of consumers, health care workers and organisations. In this unit students will critically examine the complexities inherent in developing and sustaining effective and active partnerships with individuals and groups in primary health care contexts. The interpersonal, cultural and socio-political issues that shape communication and the development of partnerships will be examined. Current approaches used to plan for and respond to crises, emergencies and disasters at an individual, organisational and community level will also be explored.

400847.2 Surveillance and Disaster Planning

Credit Points 10 **Level** 7

Assumed Knowledge

Prior qualification in above field. Health or mental health professionals, nurses, social workers, psychologists, medical practitioners.

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This unit will address the psychosocial and mental health aspects of disaster management, the systems of disaster response and how these aspects are relevant across the all-hazard approach to Prevention, Preparation, Response and Recovery (PPRR). It will address the current evidence and understanding of this field, leadership and management across the PPRR spectrum and the public health, clinical and other coordination in terms of impact and outcome. It will deal with Australian requirements and systems as well as international and Australian roles in the region. It will utilise on-line resources, a specifically developed handbook, assignment and desktop exercises.

300206.2 Sustainable Design

Credit Points 10 **Level** 7

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The dramatic socio-cultural change required to address sustainability imperatives demands practical, adaptive, proactive and precautionary innovation from a wide range of disciplines. Sustainable Design is a multi-disciplinary unit which explores the challenges faced by post-industrial cultures. It develops forward-thinking and collaborative problem-solving skills to enable students to envision and implement change in their own disciplinary contexts. Sustainable Design investigates the socio-cultural drivers that potentially endanger or improve upon the future of human health and environmental sustainability. This unit provides a unique opportunity for postgraduate students from different fields to come together and apply their skills and knowledge to wider human and environmental problems.

300686.2 Sustainable Resource Management

Credit Points 10 **Level** 7

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This unit introduces a range of skills required to understand and assess issues for sustainable resource management. Students will have opportunities in learning the impacts of soils, climate, water and their interactions on rural, peri-urban and urban landscapes. Each student will undertake a project of their choice to carry out more in-depth study related to environmental factors for improved livelihood and effective land use. Experience gained from this unit will

enhance their skills and competencies for evaluating and adapting appropriate resource management strategies and policy development.

300585.2 Systems Analysis and Design

Credit Points 10 **Level** 1

Assumed Knowledge

Students should have knowledge of the fundamentals of information systems, computer systems, computer applications and information processing

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This unit introduces the concepts of System Analysis and Design. The study of methodologies and techniques for problem recognition, requirement analysis, process modelling and/or data modelling are essential elements of this unit. The Systems Development Life Cycle model is employed as the prime approach to teach the unit, providing students with the basic skills required for analysis and design of logical solutions to information systems problems. The use of Computer Aided System Engineering tools will be investigated in practical sessions.

300696.2 Systems and Network Security

Credit Points 10 **Level** 7

Assumed Knowledge

Basic knowledge of networked and computer systems. Basic understanding of cryptography.

Equivalent Units

300253 - Distributed Systems and Network Security

Special Requirements

Students must be enrolled in a postgraduate course.

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This unit is concerned with the protection of information in computing systems and when transferred over networks. It addresses techniques for securing networking applications and their security arrangements. Students gain an understanding of the fundamentals of the provision of security in networks and systems, as well as an appreciation of some of the problems that arise in devising practical security solutions.

300582.2 Technologies for Web Applications

Credit Points 10 **Level** 2

Assumed Knowledge

Basic programming principles and program control structures equivalent to that covered in Programming Fundamentals. Basic file management and PC operation including how to access and search the World Wide Web.

Prerequisite

300580.2 Programming Fundamentals

Equivalent Units

300129 - Interactive Web Site Development, J2826 - Internet and Web Communications, D2826 - Internet and Web Communications

Incompatible Units

300101 - Creating and Managing Web Sites, CP108A - Principles of the Internet, 101180 - Web and Time Based Design

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Building on material covered in Programming Fundamentals this unit introduces students to the basics of developing interactive and dynamic web applications from both the client and server perspective. The unit covers web site design, web site development, web page accessibility and usability, XHTML, CSS, client side and server side scripting, database interaction, web site promotion (SEO), legal issues and web security.

400807.2 Transforming Nursing Practice

Credit Points 10 **Level** 7

Assumed Knowledge

This unit has the potential to form links with previous assignment topic areas of units in the course for further development at a more comprehensive level.

Special Requirements

Students must be enrolled in a postgraduate course.

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The transformation of nursing practice is facilitated when information about creative and innovative practice change and development is documented, disseminated and critiqued through professional channels such as peer reviewed journals, conference papers, discussion papers or project reports. In this Unit students will be provided with an opportunity to produce a scholarly piece of work that will disseminate information about innovative and creative solutions for transforming practice and improving patient care. Each student will select a topic of interest and examine an issue or aspect of practice to present a comprehensive and scholarly paper as a report, discussion paper, manuscript for publication or conference paper for presentation in which professional practice implications and recommendations are articulated. The Unit aims to enhance scholarly communication skills, provide a vehicle for demonstrating leadership by informing the profession of innovative and creative solutions for transforming practice

MI807A.2 Water and Wastewater Microbiology

Credit Points 10 **Level** 7

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To provide an understanding of the microbiology of water and wastewater and the role of the micro organisms in waste treatment, utilisation and management. The topics addressed will include the following: water and wastewater characteristics, microbial characterisation, nutrient transformations, methods in waste utilisation and, management, industrial effluent treatment process, novel treatment process and recycling technology.

300443.2 Web Engineering

Credit Points 10 **Level** 7

Assumed Knowledge

Ability to develop simple static web sites. Knowledge about server-side and browser-side scripting.

Equivalent Units

300251 - Web Application Development

Special Requirements

Students must be enrolled in a postgraduate course in a Health and Science discipline area.

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There is a rapid growth in use of the web to provide information and to conduct various business activities. In order to benefit from the increasing usage, organisations have started to provide more and more information through the web and also to migrate more of its business activities to web based systems. This has required professionals who can design and develop large, complex, maintainable and evolutionary web systems. This unit provides technologies and standards, architecture, design methodologies, metrics for performance measurement, development processes and policies and guidelines required to develop such web systems.

300693.2 Web Technologies

Credit Points 10 **Level** 7

Assumed Knowledge

The students should be familiar with the fundamentals of computer architecture and programming principles. They should also have a working knowledge of the World Wide Web.

Special Requirements

Students must be enrolled in a postgraduate course

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The Internet and the World Wide Web have now become part of our everyday life. Initially, in the early 1990's Web technologies consisted of only the markup language HTML and the transmission protocol HTTP. Now they include a variety of client-side and server-side technologies with fresh developments on a continual basis. This unit introduces students to Web technologies and, along with Network Technology, is a core unit for the Master's course in Information and Communications Technologies. The unit focuses on Web page and site design, markup languages, standards, protocols, client-side technologies such as CSS and scripting languages, server-side technologies like Web servers, programming languages and databases, authoring tools, and legal, ethical and social issues. It also includes the use of multi-media, the principles of intranets and extranets, security, and access rights. This unit is heavily orientated towards practical experience based on amplifying the theoretical concepts. The unit will cover the role of the W3 Consortium and possible future trends.

300389.2 Wireless Networking

Credit Points 10 **Level** 7

Assumed Knowledge

Students should be familiar with the fundamentals of computer networking and data communications. In particular, they should have a good understanding of the OSI model, the Internet protocol suite and current internet and networking technologies equivalent to satisfactory completion of an introductory networking unit at the undergraduate level such as 300086 offered at UWS or one year professional experience in networking. The unit is at an advanced level and students would not be able to complete the unit successfully unless they have a good understanding of fundamental issues in computer networking, Internet protocol suite and Internet technologies.

Special Requirements

Students must be enrolled in a postgraduate or honour course in the Health and Science discipline area.

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Wireless technologies are amongst the most exciting and rapidly growing areas in computing and information technology. They implement applications that profoundly impact our personal way of communication, as well as how business in a variety of industries and organisations are conducted. This unit goes into details of such issues. It discusses wireless networking technologies and their related applications. The main features of wireless and mobile communication systems and the networked services that are based on these systems are also presented. The unit provides students with an in-depth understanding of relevant protocols, the emerging standards and standard organisations. The students are also introduced to some of the relevant current key research issues of the field.

400570.3 Women's Health in Chinese Medicine 1

Credit Points 10 **Level** 7

Assumed Knowledge

Assumed knowledge equivalent to undergraduate training in Traditional Chinese Medicine. Students must have completed a minimum of two years training in raw Chinese herbal medicine prescribing as part of their overall undergraduate training.

Equivalent Units

400570 - Women's Health in Chinese Medicine 1

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This unit enables practitioners to extend their understanding of a range of gynaecological and obstetric disorders and to diagnose and treat these using acupuncture and patent herbal medicines. The clinical focus of this unit is on the integration of Traditional Chinese Medicine (TCM) in the treatment of disorders of the menstrual cycle, obstetric disorders, menopause and breast disease.

400571.3 Women's Health in Chinese Medicine 2

Credit Points 10 **Level** 7

Assumed Knowledge

Assumed knowledge equivalent to undergraduate training in Traditional Chinese Medicine. Students must have completed a minimum of two years training in raw Chinese herbal medicine prescribing as part of their overall undergraduate training.

Equivalent Units

400571 - Women's Health in Chinese Medicine 2

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This unit enables practitioners to extend their understanding of a range of gynaecological and obstetric disorders and to diagnose and treat these primarily using Chinese herbal medicine. The clinical focus of this unit is on the integration of Traditional Chinese Medicine (TCM) in the treatment of complex disorders of the menstrual cycle, infertility, obstetric disorders, menopause, pelvic and breast disease.

300692.2 Workflow Management Systems

Credit Points 10 **Level** 7

Assumed Knowledge

Students are expected to have basic knowledge of computer systems, software architectures, web technologies such as HTML and XML and client server architectures. In addition, students are anticipated to have studied information systems development concepts or worked in systems development projects. Further, students should have a high interest and capability to read and comprehend the research literature, and explore interdisciplinary research.

Special Requirements

Students must be enrolled in postgraduate course

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This unit covers the both theoretical and practical concepts in the rapidly growing area of Workflow Management System (WfMS). In the current global economy, organisations are investing significantly into WfMS to gain a competitive advantage. With such investments comes the need for an ICT workforce that can use, manage, and create WfMS. Therefore, the objective of this unit is to provide skills and knowledge in: process modelling techniques, system architecture of WfMS, service oriented paradigm in WfMS, workflow analysis, workflow performance analysis, making workflow systems adaptive, process intelligence, and evaluation of ROI of workflow automation efforts.

300437.2 XML and Web Services

Credit Points 10 **Level** 7

Assumed Knowledge

Ability to develop web sites; knowledge of server-side and browser-side scripting.

Special Requirements

Students must be enrolled in a postgraduate course in Health and Science discipline area.

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Web Services is a fast growing area of web-based application development. It goes further than, and is built upon, web site and enterprise-wide applications, which have been the main focus of web development so far. Web services go beyond the boundaries of a single organisation and make it possible to seamlessly bind several applications from one or more organisations to give a consolidated or unified service to users. The challenges to application development thus come from multiple sources and are more complex than until now. There are new technologies, protocols and standards to master and issues like security, trust and performance to address that again transcend the normal organisational limits. In a layered approach to understand web development, if layer one is web site, then layer two is web-based application within an enterprise and web services form layer three, straddling one or more applications, not all of them necessarily web-based and one or more organisations. This unit will cover the technologies, standards and protocols essential for web services and the issues that must be addressed for their success.

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