

Health and Science Schools

Electronic Postgraduate Handbook 2016

Western Sydney University

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About the Health and Science Schools Electronic Postgraduate Handbook

Sessions and dates

There are two main sessions in 2016: Autumn and Spring. Weeks shown in the dateline refer to the session weeks for these main sessions.

The dateline is available at:

http://www.westernsydney.edu.au/currentstudents/current_students/dates/2016_academic_year_dateline.

Unit outlines

Brief outlines of 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 Western Sydney University 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.westernsydney.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 2016 at:

http://handbook.westernsydney.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, Western Sydney University 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 and Midwifery, and Science & Health. The next part contains details on current postgraduate specialisations 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.westernsydney.edu.au/hbook/>

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SCHOOL OF MEDICINE

Master of Epidemiology

4738.1

The Master of Epidemiology course is designed for graduates interested in a career in health research, including clinicians (medical, nursing and allied health) and practitioners from health-related fields (public health, environmental health, communicable disease control). It provides an advanced understanding of epidemiological concepts and methods and their application in clinical, public health and health policy settings. A variety of electives allow acquisition of specialist skills and knowledge in areas including disease surveillance, research protocol design and statistical modelling. A capstone unit involving design and conduct of an epidemiological study, which may be workplace-based, allows students to integrate their knowledge and experiences from the whole program.

Study Mode

Two years full-time or four years part-time. A one and a half years full time program is also available, depending upon entry qualifications (see Pathways listed under Course Structure below).

Location

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

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

Master of Epidemiology (160 credit points)

Applicants must have an undergraduate degree, or higher, in any discipline.

Master of Epidemiology (Advanced Standing) (120 credit points)

Applicants must have an undergraduate degree, or higher, in a health, welfare or aged care discipline.

Course Structure

Pathways

A4013.1	Master of Epidemiology - 1.5 year pathway
A4012.1	Master of Epidemiology - 2 year pathway

Graduate Diploma in Epidemiology

4739.1

The Graduate Diploma in Epidemiology is a one year course designed for both clinicians (medical, nursing and allied health) and practitioners from health-related fields (public health, environmental health, communicable disease control) seeking to improve their knowledge of key areas of health-related research. It provides an understanding of epidemiological concepts and methods and their application in clinical, public health and health policy settings. Its core units include introductory and advanced subjects in epidemiology and biostatistics, while a range of specialist electives can be undertaken including disease surveillance, research protocol design and statistical modelling.

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

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

Applicants must have an undergraduate degree or higher, in any discipline.

Course Structure

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

Pathway

Year 1

Autumn session

401077.1 Introduction to Biostatistics

Choose one of

401076.1 Introduction to Epidemiology
401173.1 Introduction to Clinical Epidemiology

And two alternate units from the pool below

Spring session

401175.1 Analytic Approaches in Epidemiology

And three alternate units from the pool below

Alternate units

400967.2	Health Economics and Comparative Health Systems
400840.3	Communicable Diseases
401080.1	Research Protocol Design and Practice
400841.2	A Global Perspective on Social Determinants of Health
401174.1	Epidemiology of Non-Communicable Diseases
401179.1	Data Management and Programming for Epidemiology
401177.1	Environmental Epidemiology
401178.1	Controversies in Epidemiology
401176.1	Statistical Methods in Epidemiology

Graduate Certificate in Epidemiology**4740.1**

The Graduate Certificate in Epidemiology is designed for graduates seeking to improve their knowledge of key areas of health-related research. It provides an understanding of epidemiological concepts and methods and their application in clinical, public health and health policy settings. Its core units include foundation subjects in epidemiology and biostatistics, while a range of specialist electives can be undertaken including disease surveillance, environmental epidemiology and research protocol design.

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

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

Applicants must have either an undergraduate degree, or higher, in any discipline

Or

three years full-time equivalent work experience in a health, welfare or aged care environment.

Course Structure

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

Pathway**Year 1****Autumn session**

401077.1 Introduction to Biostatistics

Choose one of

401076.1 Introduction to Epidemiology

401173.1 Introduction to Clinical Epidemiology

Choose two of

400841.2 A Global Perspective on Social Determinants of Health

401174.1 Epidemiology of Non-Communicable Diseases

401179.1 Data Management and Programming for Epidemiology

401177.1 Environmental Epidemiology

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 (SWAPS) 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

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

Practicum units

- 400993.2** Clinical Minimally Invasive Gynaecological Surgery 1
401057.2 Clinical Minimally Invasive Gynaecological Surgery 2

Additional units

- 400996.1** Power Modalities
400995.2 Port Entry
400994.2 Laparoscopic Hysterectomy
401061.1 Pelvic Anatomy
401059.1 Gynaecological Surgery Ergonomics
401062.1 Pelvic Floor Function and Dysfunction
401058.1 Endometriosis
401060.1 Laparoscopic Adnexal Surgery

Graduate Certificate in Allergic Diseases

4689.2

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.

Units may be revised or replaced to ensure students are provided with up to date curriculum throughout their studies, and this may result in a new course version. Refer to the Check My Course Progress page in MySR for the most up to date information for your course.

Study Mode

Two years part-time.

Location

Campus	Attendance	Mode
Campbelltown Campus	Part Time	External
Online	Part Time	Multi Modal

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 the University 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.

Note: Students are required to enrol in the units for both 1H and 2H sessions

Part-time (Start year intake)

Year 1

- 401063.1** Allergic Sciences

Year 2

- 401064.1** Clinical Allergy

Graduate Diploma in Cardiac Sonography

4743.1

This course is an Australian Sonographers Accreditation Registry (ASAR) approved graduate entry training program in cardiac sonography (echocardiography). It integrates online and on-campus learning activities with the students employed sonography practice. Students will develop theoretical, practical and professional skills that are essential for the practice of cardiac sonography and for further professional development.

Study Mode

Two years part time.

Location

Campus	Attendance	Mode
Campbelltown Campus	Part Time	Multi Modal
Online	Part Time	Multi Modal

Accreditation

On completion of the course graduates will be eligible for registration by the Australian Sonographers Accreditation Registry.

Admission

Applicants must have successfully completed an undergraduate degree in natural and physical sciences or health

Course Structure

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

Year 1

Autumn session

- 401185.1 Principles of Cardiac Sonography 1
- 401189.1 Practice of Cardiac Sonography 1

Spring session

- 401186.1 Principles of Cardiac Sonography 2
- 401190.1 Practice of Cardiac Sonography 2

Year 2

Autumn session

- 401187.1 Principles of Cardiac Sonography 3
- 401191.1 Practice of Cardiac Sonography 3

Spring session

- 401188.1 Principles of Cardiac Sonography 4
- 401192.1 Practice of Cardiac Sonography 4

Specialisations

Postgraduate Admission Pathway - Master of Epidemiology - 2 year pathway

A4012.1

The Master of Epidemiology course is designed for graduates interested in a career in health research, including clinicians (medical, nursing and allied health) and practitioners from health-related fields (public health, environmental health, communicable disease control). It provides an advanced understanding of epidemiological concepts and methods and their application in clinical, public health and health policy settings. A variety of electives allow acquisition of specialist skills and knowledge in areas including disease surveillance, research protocol design and statistical modelling. A capstone unit involving design and conduct of an epidemiological study, which may be workplace-based, allows students to integrate their knowledge and experiences from the whole program.

Location

Campus	Mode
Parramatta Campus	Internal

Specialisation Structure

Master of Epidemiology - Two year program (160 credit points)

Applicants must have either an undergraduate degree (Level 7), 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 3 years work experience in a health, welfare or aged care discipline.

Year 1

Autumn session

Core Units

401077.1 Introduction to Biostatistics

Choose one of

401076.1 Introduction to Epidemiology

401173.1 Introduction to Clinical Epidemiology

Alternate units

Choose two of

401179.1 Data Management and Programming for Epidemiology

401174.1 Epidemiology of Non-Communicable Diseases

400841.2 A Global Perspective on Social Determinants of Health

Spring session

Core Units

401175.1 Analytic Approaches in Epidemiology

401176.1 Statistical Methods in Epidemiology

Alternate Units

Choose two of

400840.3 Communicable Diseases

400967.2 Health Economics and Comparative Health Systems

401080.1 Research Protocol Design and Practice

Year 2

Autumn session

Choose four of

401179.1 Data Management and Programming for Epidemiology

401174.1 Epidemiology of Non-Communicable Diseases

401177.1 Environmental Epidemiology

401178.1 Controversies in Epidemiology

400841.2 A Global Perspective on Social

Determinants of Health

401080.1 Research Protocol Design and Practice

Spring session

401079.1 Dissertation

Exit Awards

Students can elect to exit the program with a Graduate Certificate (40 credit points) or Graduate Diploma in Epidemiology (80 credit points). These are offered as 6 and 12 month full-time programs respectively, or as part-time equivalent programs.

Postgraduate Admission Pathway - Master of Epidemiology - 1.5 year pathway

A4013.1

The Master of Epidemiology course is designed for graduates interested in a career in health research, including clinicians (medical, nursing and allied health) and practitioners from health-related fields (public health, environmental health, communicable disease control). It provides an advanced understanding of epidemiological concepts and methods and their application in clinical, public health and health policy settings. A variety of electives allow acquisition of specialist skills and knowledge in areas including disease surveillance, research protocol design and statistical modelling. A capstone unit involving design and conduct of an epidemiological study, which may be workplace-based, allows students to integrate their knowledge and experiences from the whole program.

Location

Campus	Mode
Parramatta Campus	Internal

Specialisation Structure**Master of Epidemiology - Advanced Standing. One and a half year program (120 credit points)**

Applicants must have an undergraduate honours degree (Level 8), or higher, in a health, welfare or aged care discipline.

In addition to these higher qualifications, applicants with Advanced Standing must also have a demonstrated breadth of prior knowledge related to health-related policy and/or practice, including epidemiology and its research/policy applications.

Year 1**Autumn session****Core Units**

401077.1 Introduction to Biostatistics

Choose one of

401076.1 Introduction to Epidemiology

401173.1 Introduction to Clinical Epidemiology

Alternate Units

Choose two of

401179.1 Data Management and Programming for Epidemiology

401174.1 Epidemiology of Non-Communicable Diseases

400841.2 A Global Perspective on Social Determinants of Health

401177.1 Environmental Epidemiology

401178.1 Controversies in Epidemiology

Spring session**Core Units**

401175.1 Analytic Approaches in Epidemiology

401176.1 Statistical Methods in Epidemiology

Alternate Units

Choose two of

400840.3 Communicable Diseases

400967.2 Health Economics and Comparative Health Systems

401080.1 Research Protocol Design and Practice

Year 2**Autumn session**

401079.1 Dissertation

Notes

No units are removed or waived from this program pathway. All prospective students must complete core, capstone and alternate units. Students who demonstrate that they qualify for Advanced Standing on the basis of a breadth of prior knowledge in a cognate area are exempt from completing alternate units that represent more specialised areas of the program.

For applicants with a background in health-related policy and/or practice, including epidemiology and its research/policy applications, units 400967, 400841, 401174, 401177 and 401178 do not constitute core requirements for their completion of the course.

Exit Awards

Students can elect to exit the program with a Graduate Certificate (40 credit points) or Graduate Diploma in Epidemiology (80 credit points). These are offered as 6 and 12 month full-time programs respectively, or as part-time equivalent programs.

SCHOOL OF NURSING AND MIDWIFERY

Master of Child and Family Health (Karitane)

4713.1

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 is 2015 or later.

The Master of Child and Family Health (Karitane) aims 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 practice, 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. Opportunities will be provided for students to undertake in-depth study into aspects of child and family health relevant to their specific areas of practice.

Study Mode

Three years part-time

Location

Campus	Attendance	Mode
Hawkesbury Campus	Part Time	External

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. Inherent requirements for this course can be viewed via the following link.

Admission

Candidature for admission to the Master of Child & Family Health (Karitane) is based on the following requirements:

Registered Nurse or Midwife (currently registered to practice with the Australian Health Practitioner Regulation Agency - Nursing and Midwifery). Any other type of registration (non-practicing, limited, or student) is not acceptable for this course

And

Completion of an undergraduate degree in health-related sciences (AQF Level 7 or equivalent), such as health science, human science, midwifery, naturopathy, nursing, nutrition, psychology

And

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

Applicants seeking admission on the basis of work experience MUST support their application with a statement of service for all work experience listed on the application.

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 the University 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 Western Sydney University.

Course Structure

Qualification for this award requires the successful completion of 120 credit points including the units listed below.

Students enrolled in the course who have not completed Family Partnership Training through their employer will be required to complete the five day Family Partnership Training workshop on campus as part of their studies for the unit 400832.

400971.1	Child and Family Health: Professional Practice and Frameworks
400972.2	Child and Family Health Practice: Supporting Growth and Development
400830.3	Clinical Practice: Infant and Child Nutrition and Feeding
400831.2	Healthy Families and Communities
400832.1	Partnership in Practice
400833.3	Perinatal Mental Health
401168.1	Evidence Based Health Care
401082.1	Cultural and Social Diversity in Health Care

And two elective units

*See list of recommended elective units below

Choose one of

401083.1	Capstone Experience in Health Care
401084.1	Research Project in Health Care

Or choose two of

401086.1	Writing for Publication
401085.1	Scholarship for Practice Change in Health Care

Recommended elective units

Note: Students undertaking 401084 Research Project in Health must first complete 401167 Applied Research in Health Care and 400975 Ethics in Health Research.

400834.1	Advanced practice: Infant and Child feeding and Nutrition
400835.1	Infant Mental Health
401167.1	Applied Research in Health Care
400975.1	Ethics in Health Research

Graduate Diploma in Child and Family Health (Karitane)

4714.1

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 is 2015 or later.

The Graduate Diploma in Child & Family Health (Karitane) aims 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 practice, concepts and analysis and lead nursing practice to promote optimal health outcomes for children and families. Students who successfully complete this course may transfer into the Master of Child and Family Health (Karitane).

Study Mode

Two years part-time.

Location

Campus	Attendance	Mode
Hawkesbury Campus	Part Time	External

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. Inherent requirements for this course can be viewed via the following link.

Admission

Candidature for admission to the Graduate Diploma in Child & Family Health (Karitane) is based on the following requirements:

Registered Nurse or Midwife (currently registered to practice with the Australian Health Practitioner Regulation Agency - Nursing and Midwifery). Any other type of registration (non-practicing, limited, or student) is not acceptable for this course

And

Completion of an undergraduate degree (AQF Level 7 or equivalent), in any discipline

And

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

Applicants seeking admission on the basis of work experience MUST support their application with a statement of service for all work experience listed on the application.

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 the University 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 Western Sydney University.

Course Structure

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

Students enrolled in the course who have not completed Family Partnership Training through their employer will be required to complete the five day Family Partnership Training workshop on campus as part of their studies for the unit 400832.

Recommended Sequence

400971.1	Child and Family Health: Professional Practice and Frameworks
400972.2	Child and Family Health Practice: Supporting Growth and Development
400830.3	Clinical Practice: Infant and Child Nutrition and Feeding
400831.2	Healthy Families and Communities
400832.1	Partnership in Practice
400833.3	Perinatal Mental Health
401168.1	Evidence Based Health Care

And one elective

Graduate Certificate in Child and Family Health (Karitane)

4715.1

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 is 2015 or later.

The Graduate Certificate in Child & Family Health (Karitane) aims 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 to promote optimal health outcomes for children and families. Students who successfully complete this course may transfer into the Graduate Diploma in Child and Family Health (Karitane).

Study Mode

One year part-time.

Location

Campus	Attendance	Mode
Hawkesbury Campus	Part Time	External

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. Inherent requirements for this course can be viewed via the following link.

Admission

Candidature for admission to the Graduate Certificate in Child & Family Health (Karitane) is based on the following requirements:

Registered Nurse or Midwife (currently registered to practice with the Australian Health Practitioner Regulation Agency - Nursing and Midwifery). Any other type of registration (non-practicing, limited, or student) is not acceptable for this course

And

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

Applicants seeking admission on the basis of work experience MUST support their application with a statement of service for all work experience listed on the application.

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 the University 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 Western Sydney University.

Course Structure

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

- 400971.1** Child and Family Health: Professional Practice and Frameworks
- 400972.2** Child and Family Health Practice: Supporting Growth and Development
- 400830.3** Clinical Practice: Infant and Child Nutrition and Feeding
- 400831.2** Healthy Families and Communities

Master of Mental Health Nursing

4719.1

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 is 2015 or later.

This course provides students with the theoretical knowledge and critical thinking skills to prepare them for advanced practice in mental health nursing, across a range of health care settings. Graduates will be able to apply advanced practice, concepts and analysis in mental health nursing to promote optimal health outcomes for clients with mental illness. Opportunities will be provided for students to

undertake in-depth study into aspects of mental health and mental illness relevant to their specific area of practice.

Study Mode

One and a half years full-time or three years part-time.

Location

Campus Attendance Mode

Online Full Time Multi Modal

Online Part Time Multi Modal

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

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

Registered Nurse or Midwife (currently registered to practise with the Australian Health Practitioner Regulation Agency - Nursing and Midwifery). Any other type of registration (non-practising, limited, or student) is not acceptable for this course.

And

Completion of an undergraduate degree in health-related sciences (AQF Level 7 or equivalent), such as health science, human science, midwifery, naturopathy, nursing, nutrition, psychology OR Completion of a Graduate Diploma in Mental Health Nursing (AQF Level 8 or equivalent).

And

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

Applicants seeking admission on the basis of work experience must support their application with a statement of service for all work experience listed on the application.

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 the University 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 Western Sydney University.

Course Structure

Qualification for this award requires the successful completion of 120 credit points including the units listed below

- 400217.3** Mental Health Assessment and Application

- 400218.2** Mental Health Nursing Practice 1
400219.3 Mental Health Nursing Practice 2
400220.2 Contemporary Professional Practice in Mental Health Nursing
401168.1 Evidence Based Health Care
401139.1 Clinical Supervision in Health Care
400957.3 Biological Considerations in Mental Health and Mental Illness for Advanced Practice
400858.3 Psychopharmacology for Advanced Practice Mental Health Nurses

And two elective units

Choose one of

- 401083.1** Capstone Experience in Health Care
401084.1 Research Project in Health Care

Or choose two of

- 401085.1** Scholarship for Practice Change in Health Care
401086.1 Writing for Publication

Graduate Diploma in Mental Health Nursing

4720.1

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 is 2015 or later.

The course aims 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. Issues include learning how to use the self therapeutically, relationships with clients, understanding the experience of people who have mental illnesses, disorders and crises. Students who successfully complete this course may transfer into the Master of Mental Health Nursing.

Study Mode

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

Location

Campus Attendance Mode

Online	Full Time	Multi Modal
Online	Part Time	Multi Modal

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

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

Registered Nurse or Midwife (currently registered to practice with the Australian Health Practitioner Regulation Agency - Nursing and Midwifery)

And

Completion of an undergraduate degree (AQF Level 7 or equivalent), in any discipline

Or

Completion of a Graduate Certificate in Mental Health Nursing (AQF Level 8 or equivalent)

And

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

Applicants seeking admission on the basis of work experience must support their application with a statement of service for all work experience listed on the application.

One year full-time equivalent work experience as a registered nurse or registered midwife 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 the University 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 Western Sydney University.

Course Structure

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

- 400217.3** Mental Health Assessment and Application
400218.2 Mental Health Nursing Practice 1
400219.3 Mental Health Nursing Practice 2
400220.2 Contemporary Professional Practice in Mental Health Nursing
401168.1 Evidence Based Health Care
401139.1 Clinical Supervision in Health Care
400957.3 Biological Considerations in Mental Health and Mental Illness for Advanced Practice

And one elective unit

Graduate Certificate in Mental Health Nursing

4721.1

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 is 2015 or later.

The aim of this course is for a graduate to possess necessary knowledge and clinical skills to practice mental health nursing skilfully and within ethical and legal boundaries, and who can think abstractly and critically. The course encourages critical examination of current issues in mental health within national strategic directions for mental health care. Students gain understandings of how to use the self therapeutically, and the experiences of people who have mental illnesses, disorders and crises. Students who successfully complete this course may transfer into the Graduate Diploma in Mental Health Nursing.

Study Mode

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

Location

Campus Attendance Mode

Online Full Time Multi Modal

Online Part Time Multi Modal

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

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

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

One year full-time equivalent work experience as a registered nurse or registered midwife within the last five years OR current and continuing employment as a registered nurse in a mental health setting.

Applicants seeking admission on the basis of work experience must support their application with a statement of service for all work experience listed on the application.

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 the University 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 Western Sydney University.

Course Structure

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

400217.3	Mental Health Assessment and Application
400218.2	Mental Health Nursing Practice 1
400219.3	Mental Health Nursing Practice 2
400220.2	Contemporary Professional Practice in Mental Health Nursing

Master of Mental Health Nursing (Nurse Practitioner)

4673.3

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 2015 or later.

Units may be revised or replaced to ensure students are provided with up to date curriculum throughout their studies, and this may result in a new course version. Refer to the Check My Course Progress page in MySR for the most up to date information for your course.

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 Nursing and Midwifery Board of Australia (NMBA). From 1st July 2010 the approval, recognition and accreditation of courses has been transferred to the Australian Nursing and Midwifery Accreditation Council (ANMAC). Course accreditation can be checked on their website. [Http://www.nursingmidwiferyboard.gov.au/Accreditation.aspx](http://www.nursingmidwiferyboard.gov.au/Accreditation.aspx)

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

Applicants must meet all of the following criteria to be eligible for entry:

- Registered Nurse (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
- Graduate certificate, or higher, in mental health nursing
- 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 the University 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 Western Sydney University.

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 Master of Mental Health Nursing on completion of the relevant units.

Recommended Sequence

Year 1

Autumn session

- 400220.2** Contemporary Professional Practice in Mental Health Nursing
- 401168.1** Evidence Based Health Care

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 Graduate Diploma in Nursing Leadership (Mental Health) 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

Graduate Diploma in Midwifery

4697.1

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 is 2015 or later.

The Graduate Diploma in Midwifery is a course for registered nurses wishing to pursue a career in Midwifery. The course combines theory and practice with an emphasis on the art and science of midwifery, health promotion, communication skills, evidenced based practice and models of midwifery care within a primary health care approach. To be eligible for this course students are required to obtain a 12 month position of employment as a midwifery student in an affiliated NSW Health Local Health District hospital. The course will be offered over 15 months with the students completing the last unit in Quarter 1 of the second year.

Study Mode

Fifteen months full-time.

Location

Campus	Attendance	Mode
Parramatta Campus	Full Time	Internal

Accreditation

The Graduate Diploma in Midwifery is accredited by Australian Health Practitioner's Regulation Agency (AHPRA) on recommendation by the Australian Nursing and Midwifery Accreditation Council (ANMAC).

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 midwifery student 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 the University should also use the information provided on the UAC website.

Course Structure

Qualification for this award requires the successful completion of 100 credit points including the units listed in the recommended sequence below.

Recommended Sequence**Year 1****Summer B**

401087.1	Midwifery as a Profession
401088.1	Bioscience for Midwifery Practice

Autumn session

401089.1	Childbirth in the Australian Context
401090.1	Midwifery Practice 1

Spring session

401091.1	Complex Care
401092.1	Essentials of Best Practice in Midwifery
401093.1	Midwifery Practice 2

Year 2**Quarter 1**

401094.1 Midwifery Practice 3

Master of Nursing**4722.1**

This version of the course is available to new and continuing students. 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 the course was 2015 or later.

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. Students will be able to align their career goals with one of a number of professional pathways. Specialisations available include clinical leadership, clinical teaching, aged care, primary health care or research studies. Opportunities will be provided for students in their final sessions of study to synthesise and apply advanced nursing concepts through a capstone experience or research project relevant to their professional goals.

Study Mode

One and a half years full-time or three years part-time.

Location

Campus	Attendance	Mode
Hong Kong Baptist University	Part Time	Internal
Kiang Wu College of Nursing, Macau	Part Time	Internal
Online	Full Time	Multi Modal
Online	Part Time	Multi Modal
Parramatta Campus	Full Time	Internal
Parramatta Campus	Part Time	Internal
Parkway College, Singapore	Part Time	Internal

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

Candidature for admission to the Master of Nursing and the various specialisations are detailed below:

Registered Nurse (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. Any other type of registration (non-practicing, limited, or student) is not acceptable for this course

And

Completion of an undergraduate degree in health-related sciences (AQF Level 7 or equivalent), in health science, human science, midwifery, naturopathy, nursing, nutrition, psychology

Or

Completion of a Graduate Diploma in Nursing (AQF Level 8 or equivalent)

And

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

Applicants seeking admission on the basis of work experience MUST support their application with a statement of service for all work experience listed on the application.

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

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

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 the University 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 Western Sydney University.

Course Structure

Students may complete the Master of Nursing (no specialisation) below or may enrol in and complete one of the listed Specialisations.

Master of Nursing (no specialisation)

Qualification for this award requires the successful completion of 120 credit points including the units listed below.

Students must complete the following units

401082.1	Cultural and Social Diversity in Health Care
400774.2	Perspectives on Nursing
401168.1	Evidence Based Health Care
400235.2	Leadership in Clinical Practice
400412.3	Primary Health Care and its Applications
400238.3	Policy, Power and Politics in Health Care Provision
400210.2	Health Promotion and the Nurse

And three electives (Onshore International student visa holders must enrol in postgraduate units offered in the DAY mode)

Choose one of

401083.1	Capstone Experience in Health Care
401084.1	Research Project in Health Care

Or Choose two of

401085.1	Scholarship for Practice Change in Health Care
401086.1	Writing for Publication

Specialisations

ST4014.1	Clinical Leadership
ST4015.1	Clinical Teaching
ST4016.1	Aged Care
ST4017.1	Primary Health Care
ST4018.1	Research Studies

Graduate Diploma in Nursing

4723.1

The aim of the Graduate Diploma in 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. Students who successfully complete this course may transfer into the Master of Nursing.

Study Mode

One year full time or two years part-time.

Location

Campus	Attendance	Mode
Hong Kong Baptist University	Part Time	Internal
Kiang Wu College of Nursing, Macau	Part Time	Internal
Online	Full Time	Multi Modal
Online	Part Time	Multi Modal
Parkway College, Singapore	Part Time	Internal

Admission

Candidature for admission to the Graduate Diploma in Nursing is based on the following requirements

Registered Nurse (currently registered to practice 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

Completion of an undergraduate degree (AQF Level 7 or equivalent), in any discipline

And

One year FTE professional work experience as a registered nurse within the last five years.

Applicants seeking admission on the basis of work experience MUST support their application with a statement of service for all work experience listed on the application.

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 the University 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 Western Sydney University.

Course Structure

Students may complete the Graduate Diploma in Nursing (no specialisation) below or may enrol in and complete one of the listed Specialisations.

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

401082.1	Cultural and Social Diversity in Health Care
400774.2	Perspectives on Nursing
401168.1	Evidence Based Health Care
400235.2	Leadership in Clinical Practice
400412.3	Primary Health Care and its Applications
400238.3	Policy, Power and Politics in Health Care Provision

And two electives

Specialisations

ST4019.1	Clinical Leadership
ST4020.1	Clinical Teaching
ST4021.1	Aged Care
ST4022.1	Primary Health Care
ST4023.1	Research Studies

Graduate Certificate in Nursing

4724.1

The aim of the Graduate Certificate in Nursing is to provide Registered Nurses with the theoretical knowledge and associated skills to prepare them for autonomous practice in clinical settings. Graduates will be able to synthesise and apply advanced nursing concepts in order to lead nursing practice and optimise health outcomes. Students who successfully complete this course may transfer to the Graduate Diploma in Nursing.

Study Mode

Six months full time or one year part-time.

Location

Campus Attendance Mode

Online Full Time Multi Modal

Campus Attendance Mode

Online Part Time Multi Modal

Admission

Candidature for admission to the Graduate Certificate in Nursing is based on the following requirements:

Registered Nurse (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

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

Applicants seeking admission on the basis of work experience MUST support their application with a statement of service for all work experience listed on the application.

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 the University 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 Western Sydney University.

Course Structure

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

401082.1	Cultural and Social Diversity in Health Care
400774.2	Perspectives on Nursing
401168.1	Evidence Based Health Care
400235.2	Leadership in Clinical Practice

Graduate Diploma in Nursing Leadership (Mental Health) (exit only)

4734.1

This is an exit course only. Applicants apply to 4673 Master of Mental Health Nursing (Nurse Practitioner) and exit with the Graduate Diploma in Nursing Leadership (Mental Health) 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
401168.1 Evidence Based Health Care

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

Master of Nursing (Professional Studies)

4735.1

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year for this course is Spring 2015.

The aim of the Master of Nursing (Professional Studies) is to provide students who hold an undergraduate nursing degree with the theoretical knowledge and critical thinking skills to enhance their practice in the contemporary clinical setting. Opportunities will be provided for students in their final sessions of this qualification to synthesise and apply advanced nursing concepts through clinical placements as part of their capstone experience.

Study Mode

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

Location

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

Campus Attendance Mode

Parramatta Campus Part Time Internal

Admission

Candidature for admission to the Master of Nursing (Professional Studies) is based on admission requirements detailed below:

Completion of an undergraduate degree in nursing (AQF Level 7 or equivalent).

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 the University should also use the information provided on the UAC website.

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

International students applying to The University through the International Office can find details of minimum English proficiency requirements and acceptable proof on their 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 Western Sydney University

Course Structure

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

- 401082.1** Cultural and Social Diversity in Health Care
400412.3 Primary Health Care and its Applications
400241.3 Supporting Aged Communities

And one elective

Students may exit with the Graduate Certificate in Nursing (Professional Studies) at this point.

- 400773.4** Mental Health for Communities
401168.1 Evidence Based Health Care
400210.2 Health Promotion and the Nurse

And one elective

Students may exit with the Graduate Diploma in Nursing (Professional Studies) at this point.

- 400235.2** Leadership in Clinical Practice
400238.3 Policy, Power and Politics in Health Care Provision
400774.2 Perspectives on Nursing
400777.3 Leadership for Quality and Safety in Health Care

And two electives

Capstone Unit (20 credit points)**401083.1** Capstone Experience in Health Care**Graduate Diploma in Nursing (Professional Studies) (exit only)****4736.1**

This is an exit course only. Applicants apply to 4735 Master of Nursing (Professional Studies) and exit with the Graduate Diploma in Nursing (Professional Studies) award.

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

Course Structure

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

401082.1	Cultural and Social Diversity in Health Care
400412.3	Primary Health Care and its Applications
400241.3	Supporting Aged Communities
400773.4	Mental Health for Communities
401168.1	Evidence Based Health Care
400210.2	Health Promotion and the Nurse

And two electives

Graduate Certificate in Nursing (Professional Studies) (exit only)**4737.1**

This is an exit course only. Applicants apply to 4735 Master of Nursing (Professional Studies) and exit with the Graduate Certificate in Nursing (Professional Studies) award.

Study Mode

Six months full time or one 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

Course Structure

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

401082.1	Cultural and Social Diversity in Health Care
400412.3	Primary Health Care and its Applications
400241.3	Supporting Aged Communities

And one elective

Master of Primary Health Care**4694.1**

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 is 2015 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 health care provider in a changing community environment. 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 full-time or three years part-time.

Location

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

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

Candidature for admission to the Master of Primary Health Care is based on the following requirements:

Completion of an undergraduate degree in health-related sciences (AQF Level 7 or equivalent), such as medicine, dentistry, pharmacy, pathology, optometry, nutrition, human science, naturopathy, complementary medicine, nursing, psychology, health science, sports science or physiotherapy.

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 the University 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 Western Sydney University.

Course Structure

Qualification for this award requires the successful completion of 120 credit points, including the units listed in the recommended sequence below.

400412.3	Primary Health Care and its Applications
401082.1	Cultural and Social Diversity in Health Care
400836.2	Health Promotion: A Primary Health Care Approach
400856.1	Approaches to Epidemiology
400838.1	Supporting Individuals and Communities in Crisis
400773.4	Mental Health for Communities
400837.3	Health and Socio-political Issues in Aged Care
400414.2	Leadership and Change
400839.1	Collaborative Inquiry for Primary Health Care Action

And one elective

Choose one of

401083.1	Capstone Experience in Health Care
401084.1	Research Project in Health Care

Or choose two of

401085.1	Scholarship for Practice Change in Health Care
401086.1	Writing for Publication

Graduate Diploma in Primary Health Care

4695.1

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 is 2015 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 health care provider in a changing community environment. Key knowledge areas include primary health care principles and application, health promotion, and strategies to support individuals and communities. Students who successfully complete this course may transfer into the Master of Primary Health Care.

Study Mode

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

Location

Campus Attendance Mode

Online	Full Time	Multi Modal
Online	Part Time	Multi Modal

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

Candidature for admission to the Graduate Diploma in Primary Health Care is based on the following requirements:

Completion of an undergraduate degree (AQF Level 7 or equivalent) in any discipline

And

3 years FTE professional work experience in the health sector.

Applicants seeking admission on the basis of work experience MUST support their application with a statement of service for all work experience listed on the application.

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 the University 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 Western Sydney University.

Course Structure

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

400412.3	Primary Health Care and its Applications
401082.1	Cultural and Social Diversity in Health Care
400836.2	Health Promotion: A Primary Health Care Approach
400856.1	Approaches to Epidemiology
400838.1	Supporting Individuals and Communities in Crisis
400773.4	Mental Health for Communities
400837.3	Health and Socio-political Issues in Aged Care

And one elective

Graduate Certificate in Primary Health Care

4696.1

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 is 2015 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 health care provider in a changing community environment. Key knowledge areas include primary health care principles and application and health promotion. Students who successfully complete this course may transfer into the Graduate Diploma in Primary Health Care.

Study Mode

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

Location

Campus Attendance Mode

Online	Full Time	Multi Modal
Online	Part Time	Multi Modal

Admission

Candidature for admission to the Graduate Certificate in Primary Health Care is based on the following requirements:

Completion of a professional qualification in health (> AQF Level 6 or equivalent), such as an Advanced Diploma or higher qualification in a discipline such as medicine, dentistry, pharmacy, pathology, optometry, nutrition, human science, naturopathy, complementary medicine, nursing, psychology, health science, sports science or physiotherapy.

and

3 years FTE professional work experience in the health sector.

Applicants seeking admission on the basis of work experience must support their application with a statement of service for all work experience listed on the application.

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 the University 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 Western Sydney University.

Course Structure

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

400412.3	Primary Health Care and its Applications
401082.1	Cultural and Social Diversity in Health Care
400836.2	Health Promotion: A Primary Health Care Approach
400856.1	Approaches to Epidemiology

Specialisations

Postgraduate Specialisation - Clinical Leadership

ST4014.1

The Clinical Leadership specialisation provides students with an opportunity for clinical nurse leaders (nurse clinicians, nurse managers) and aspiring nurse leaders to gain formal education in contemporary clinical leadership to support them to facilitate nursing excellence within the clinical practice environment. Graduates who complete the Clinical Leadership specialisation will be prepared to take on clinical leadership roles such as clinical nurse specialist and clinical nurse consultant.

Location

Campus	Mode
Hong Kong Baptist University	Internal
Parramatta Campus	External
Parramatta Campus	Internal

Specialisation Structure

Qualification for this award requires the successful completion of 120 credit points including the units listed below.

401082.1	Cultural and Social Diversity in Health Care
400774.2	Perspectives on Nursing
401168.1	Evidence Based Health Care
400238.3	Policy, Power and Politics in Health Care Provision
400235.2	Leadership in Clinical Practice
400846.3	Building Organisational Capacity in Health Care
400777.3	Leadership for Quality and Safety in Health Care

And three electives (Onshore International student visa holders must enrol in postgraduate units offered in the DAY mode)

Choose one of

401083.1	Capstone Experience in Health Care
401084.1	Research Project in Health Care

or choose two of

401085.1	Scholarship for Practice Change in Health Care
401086.1	Writing for Publication

Postgraduate Specialisation - Clinical Teaching

ST4015.1

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	External
Parramatta Campus	Internal

Specialisation Structure

Qualification for this award requires the successful completion of 120 credit points including the units listed below.

401082.1	Cultural and Social Diversity in Health Care
400774.2	Perspectives on Nursing
401168.1	Evidence Based Health Care
400238.3	Policy, Power and Politics in Health Care Provision
400235.2	Leadership in Clinical Practice
400973.1	Clinical Teaching and Professional Development
400974.1	Clinical Teaching for Learning

And three electives (Onshore International student visa holders must enrol in postgraduate units offered in the DAY mode)

Choose one of

401083.1	Capstone Experience in Health Care
401084.1	Research Project in Health Care

or choose two of

401085.1	Scholarship for Practice Change in Health Care
401086.1	Writing for Publication

Postgraduate Specialisation - Aged Care

ST4016.1

The Aged Care specialisation provides students with an opportunity to gain formal education in contemporary aged care to either enhance their existing clinical experience or provide skill development to facilitate nursing excellence in the provision of quality aged care. Graduates who complete

this specialisation in Aged Care will be prepared to take on a leadership role in nursing within aged care services.

Location

Campus	Mode
Parramatta Campus	External
Parramatta Campus	Internal

Specialisation Structure

Qualification for this award requires the successful completion of 120 credit points including the units listed below.

401082.1	Cultural and Social Diversity in Health Care
400774.2	Perspectives on Nursing
401168.1	Evidence Based Health Care
400235.2	Leadership in Clinical Practice
400837.3	Health and Socio-political Issues in Aged Care
400846.3	Building Organisational Capacity in Health Care
400241.3	Supporting Aged Communities

And three electives (Onshore International student visa holders must enrol in postgraduate units offered in the DAY mode)

Choose one of

401083.1	Capstone Experience in Health Care
401084.1	Research Project in Health Care

or choose two of

401085.1	Scholarship for Practice Change in Health Care
401086.1	Writing for Publication

Postgraduate Specialisation - Primary Health Care

ST4017.1

The Primary Health Care specialisation provides students with an opportunity to gain formal education in primary health care to support them to develop an holistic approach to health care within an integrated, dynamic and complex health system. Graduates of the Primary Health Care specialisation will be prepared to take on leadership roles in health care settings that promote health such as community health services, schools and medical centres.

Location

Campus	Mode
Parramatta Campus	External
Parramatta Campus	Internal

Specialisation Structure

Qualification for this award requires the successful completion of 120 credit points including the units listed below.

401082.1	Cultural and Social Diversity in Health Care
400774.2	Perspectives on Nursing
401168.1	Evidence Based Health Care
400238.3	Policy, Power and Politics in Health Care Provision
400412.3	Primary Health Care and its Applications
400836.2	Health Promotion: A Primary Health Care Approach
400856.1	Approaches to Epidemiology

And three electives (Onshore International student visa holders must enrol in postgraduate units offered in the DAY mode)

Choose one of

401083.1	Capstone Experience in Health Care
401084.1	Research Project in Health Care

or choose two of

401085.1	Scholarship for Practice Change in Health Care
401086.1	Writing for Publication

Postgraduate Specialisation - Research Studies

ST4018.1

The Research Studies 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 Studies 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
Parramatta Campus	Internal

Specialisation Structure

Qualification for this award requires the successful completion of 120 credit points including the units listed below.

401082.1	Cultural and Social Diversity in Health Care
400774.2	Perspectives on Nursing
400235.2	Leadership in Clinical Practice
400238.3	Policy, Power and Politics in Health Care Provision
401168.1	Evidence Based Health Care
401167.1	Applied Research in Health Care
400975.1	Ethics in Health Research

401084.1 Research Project in Health Care

And three electives (Onshore International student visa holders must enrol in postgraduate units offered in the DAY mode)

Postgraduate Specialisation - Clinical Leadership

ST4019.1

The Clinical Leadership specialisation provides students with an opportunity for clinical nurse leaders (nurse clinicians, nurse managers) and aspiring nurse leaders to gain formal education in contemporary clinical leadership to support them to facilitate nursing excellence within the clinical practice environment. Graduates who complete the Clinical Leadership specialisation will be prepared to take on clinical leadership roles such as clinical nurse specialist and clinical nurse consultant.

Location

Campus	Mode
Hong Kong Baptist University	Internal
Parramatta Campus	External
Parramatta Campus	Internal

Specialisation Structure

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

401082.1	Cultural and Social Diversity in Health Care
400774.2	Perspectives on Nursing
401168.1	Evidence Based Health Care
400238.3	Policy, Power and Politics in Health Care Provision
400235.2	Leadership in Clinical Practice
400846.3	Building Organisational Capacity in Health Care
400777.3	Leadership for Quality and Safety in Health Care

And one elective

Postgraduate Specialisation - Clinical Teaching

ST4020.1

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	External
Parramatta Campus	Internal

Specialisation Structure

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

401082.1	Cultural and Social Diversity in Health Care
400774.2	Perspectives on Nursing
401168.1	Evidence Based Health Care
400238.3	Policy, Power and Politics in Health Care Provision
400235.2	Leadership in Clinical Practice
400973.1	Clinical Teaching and Professional Development
400974.1	Clinical Teaching for Learning

And one elective

Postgraduate Specialisation - Aged Care

ST4021.1

The Aged Care specialisation provides students with an opportunity to gain formal education in contemporary aged care to either enhance their existing clinical experience or provide skill development to facilitate nursing excellence in the provision of quality aged care. Graduates who complete this specialisation in Aged Care will be prepared to take on a leadership role in nursing within aged care services.

Location

Campus	Mode
Parramatta Campus	External
Parramatta Campus	Internal

Specialisation Structure

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

401082.1	Cultural and Social Diversity in Health Care
400774.2	Perspectives on Nursing
401168.1	Evidence Based Health Care
400235.2	Leadership in Clinical Practice
400837.3	Health and Socio-political Issues in Aged Care
400846.3	Building Organisational Capacity in Health Care
400241.3	Supporting Aged Communities
401085.1	Scholarship for Practice Change in Health Care

Postgraduate Specialisation - Primary Health Care

ST4022.1

The Primary Health Care specialisation provides students with an opportunity to gain formal education in primary health care to support them to develop an holistic approach to health care within an integrated, dynamic and complex health system. Graduates of the Primary Health Care specialisation will be prepared to take on leadership roles in health care settings that promote health such as community health services, schools and medical centres.

Location

Campus	Mode
Parramatta Campus	External
Parramatta Campus	Internal

Specialisation Structure

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

401082.1	Cultural and Social Diversity in Health Care
400774.2	Perspectives on Nursing
401168.1	Evidence Based Health Care
400238.3	Policy, Power and Politics in Health Care Provision
400412.3	Primary Health Care and its Applications
400836.2	Health Promotion: A Primary Health Care Approach
400856.1	Approaches to Epidemiology

And one elective

Postgraduate Specialisation - Research Studies

ST4023.1

The Research Studies 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 Studies 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
Parramatta Campus	Internal

Specialisation Structure

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

401082.1	Cultural and Social Diversity in Health Care
400774.2	Perspectives on Nursing
400235.2	Leadership in Clinical Practice
401168.1	Evidence Based Health Care
401167.1	Applied Research in Health Care
400975.1	Ethics in Health Research
401085.1	Scholarship for Practice Change in Health Care

And one elective

SCHOOL OF COMPUTING, ENGINEERING AND MATHEMATICS

Master of Advanced Networking

3722.2

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 2016 or later.

Units may be revised or replaced to ensure students are provided with up to date curriculum throughout their studies, and this may result in a new course version. Refer to the Check My Course Progress page in MySR for the most up to date information for your course.

This online Masters course consists of a Postgraduate Diploma in Advanced Networking and an Masters dissertation. The postgraduate diploma consists of four professional vocational units, which include the Cisco Certified Network Professional (CCNP) materials. It will provide students with the knowledge, understanding, and skills needed to plan, implement, verify and troubleshoot local and wide-area enterprise networks. Students will be provided with hands-on experience of configuring networks using online tools. The final dissertation draws together the knowledge and skills in a research-based project. Professionals in IT and related fields will benefit from the completion of a dissertation, helping them to develop the skills required for systematically addressing problems in their own organisations. The Masters is also relevant as a basis for further studies at doctoral level or for students working professionally requiring knowledge and experience of advanced networking and research methods.

Study Mode

Three years part-time

Location

Campus Attendance Mode

Online Part Time Multi Modal

Admission

Applicants must have successfully completed an undergraduate degree in computing, information systems, information and communication technology or software engineering with a minimum credit average (GPA = 5) or higher.

A significant part of this course is based on Cisco Certified Networking Professional (CCNP) curricula. Applicants will need an understanding of the principals covered in the Cisco Certified Networking Associate (CCNA) course before enrolment. In addition, to obtain CCNP certification a successful pass grade in BOTH CCNP and CCNA certification examinations are required.

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. 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 Western Sydney University 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 Western Sydney University.

Course Structure

Qualification for this award requires the successful completion of 120 credit points as per the recommended sequence below.

Recommended Sequence

Part-Time - Start Year Intake

Year 1

Autumn session

301065.1 Advanced Routing

Spring session

301066.1 Multilayer Switching

At this point, students may exit with a Graduate Certificate in Advanced Networking

Year 2

Autumn session

301067.1 Optimising Networks

Spring session

301068.1 Network Security

At this point, students may exit with a Graduate Diploma in Advanced Networking

Year 3

The Year 3 structure will display as soon as available

Part-Time - Mid Year Intake

Year 1

Spring session

301066.1 Multilayer Switching

Year 2

Autumn session

301065.1 Advanced Routing

At this point, students may exit with a Graduate Certificate in Advanced Networking**Spring session****301068.1** Network Security**Year 3****Autumn session****301067.1** Optimising Networks**At this point, students may exit with a Graduate Diploma in Advanced Networking**

The Year 3 Spring and Year 4 Autumn structure will display as soon as available

Graduate Diploma in Advanced Networking**3723.2**

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 2016 or later.

Units may be revised or replaced to ensure students are provided with up to date curriculum throughout their studies, and this may result in a new course version. Refer to the Check My Course Progress page in MySR for the most up to date information for your course.

As a Cisco Academy, Western Sydney University can offer students the opportunity to study the Cisco Certified Network Professional (CCNP) programme using the latest CCNP curriculum. The Graduate Diploma course will provide students with the knowledge, understanding, and skills needed to plan, implement, verify and troubleshoot local and wide-area enterprise networks. Students will be provided with hands-on experience of configuring networks using online tools. On completion of this diploma students will be able to go on and gain the industry recognised certification by taking the CCNP examinations.

Simultaneously, course materials, assessment and tutorial support provided will enable students to broaden their understanding beyond the Cisco domain and to gain a recognised postgraduate diploma. Students may continue their studies and pursue a research project to gain a Master of Advanced Networking.

Study Mode

Two years part-time

Location**Campus Attendance Mode**

Online Part Time Multi Modal

Admission

Applicants must have successfully completed an undergraduate degree or associate diploma in computing, information systems, information and communication

technology or software engineering with a minimum credit average (GPA = 5) or higher.

Or

Five plus years full time equivalent work experience in computer networking or communication technology.

A significant part of this course is based on Cisco Certified Networking Professional (CCNP) curricula. Applicants will need an understanding of the principals covered in the Cisco Certified Networking Associate (CCNA) course before enrolment. In addition, to obtain CCNP certification a successful pass grade in BOTH CCNP and CCNA certification examinations are required.

Applicants seeking admission on the basis of work experience must support their application with a Statement of Service for all work experience listed on the application.

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. 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 Western Sydney University 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 Western Sydney University.

Course Structure

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

Recommended Sequence**Part-time - Start Year Intake****Year 1****Autumn session****301065.1** Advanced Routing**Spring session****301066.1** Multilayer Switching**At this point, students may exit with a Graduate Certificate in Advanced Networking****Year 2****Autumn session****301067.1** Optimising Networks**Spring session****301068.1** Network Security

Part-time - Mid Year Intake**Year 1****Spring session****301066.1** Multilayer Switching**Year 2****Autumn session****301065.1** Advanced Routing**At this point, students may exit with a Graduate Certificate in Advanced Networking****Spring session****301068.1** Network Security**Year 3****Autumn session****301067.1** Optimising Networks**Graduate Certificate in Advanced Networking****3724.2**

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 2016 or later.

Units may be revised or replaced to ensure students are provided with up to date curriculum throughout their studies, and this may result in a new course version. Refer to the Check My Course Progress page in MySR for the most up to date information for your course.

As a Cisco Academy, Western Sydney University can offer students the opportunity to study the Cisco Certified Network Professional (CCNP) programme using the latest CCNP curriculum. The Graduate Certificate course will provide students with the knowledge and understanding of advanced switching and routing technologies. Students will be provided with hands-on experience of configuring networks using online tools. On completion of this graduate certificate students will be able to go on and gain the industry recognised certification by taking the CCNP examinations. Students may also choose to continue their studies and pursue two more units to gain a Graduate Diploma in Advanced Networking that will enable them to gain the industry recognised certification that will enable them to gain the industry recognised certification.

Study Mode

One year part-time

Location**Campus Attendance Mode**

Online Part Time Multi Modal

Admission

Applicants must have successfully completed an undergraduate degree or associate diploma in computing, information systems, information and communication technology or software engineering with a minimum credit average (GPA = 5) or higher.

Or

Three plus years full time equivalent work experience in computer networking or communication technology.

A significant part of this course is based on Cisco Certified Networking Professional (CCNP) curricula. Applicants will need an understanding of the principals covered in the Cisco Certified Networking Associate (CCNA) course before enrolment. In addition, to obtain CCNP certification a successful pass grade in BOTH CCNP and CCNA certification examinations are required.

Applicants seeking admission on the basis of work experience must support their application with a Statement of Service for all work experience listed on the application.

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. 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 Western Sydney University 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 Western Sydney University.

Course Structure

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

Recommended Sequence**Part-time - Start Year Intake****Year 1****Autumn session****301065.1** Advanced Routing**Spring session****301066.1** Multilayer Switching**Part-time - Mid Year Intake****Year 1****Spring session****301066.1** Multilayer Switching

Year 2**Autumn session****301065.1** Advanced Routing**Master of Building Surveying****3703.2**

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 2016 or later.

Units may be revised or replaced to ensure students are provided with up to date curriculum throughout their studies, and this may result in a new course version. Refer to the Check My Course Progress page in MySR for the most up to date information for your course.

This 3-year part-time Master's program aims to provide students with the special knowledge and skills to assess, evaluate and recommend building solutions. It is relevant to professionals certifying alternative solutions under the performance based building code and other relevant standards and guidelines. The course enables students to understand performance requirements, basic fire safety technology and engineering principles, building access and sustainability and other issues related to building surveying practice. The graduates will also acquire the skill to independently appraise the literature and conduct research to address building surveying contemporary issues faced by the building industry.

This postgraduate course has been designed primarily as a Distance Learning course. However, a select unit (one in total) has a 5 day intensive block style compulsory workshop that requires students to attend. This workshop will include fieldwork, site visits or industry tours. Many of the other units have non-compulsory workshops and students are encouraged to attend these workshops to gain the benefit of the face to face interaction within the course.

Study Mode

Three years part-time. Students can fast-track by completing additional units per semester to complete the course in as early as one and a half years.

Location

Campus	Attendance	Mode
Parramatta Campus	Part Time	External

Accreditation

The course is recognised by NSW Building Professionals Board (BPB). Provisional accreditation with Australian Institute of Building Surveyors (AIBS) has been received with full accreditation to be finalised in 2016.

Admission

Applicants must have an undergraduate degree or higher, in engineering, building, building surveying, construction, planning, bushfire protection 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 the University 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 Western Sydney University.

Course Structure

Qualification for this award requires the successful completion of 160 credit points as per the recommended sequence below.

Recommended Sequence**Summer intake****Year 1****Summer session**

300708.4 Planning and Development Control
300713.3 Building Engineering

Autumn session

300948.2 Fire Technology and Engineering Principles
301103.1 Interpreting Building Regulations (Residential Buildings)

Spring session

300711.3 Building Fire Services
300717.3 Egress and Risk Assessment

Students may exit at this point with a Graduate Certificate in Building Surveying (60 credit points)**Year 2****Summer session**

301104.1 Professional Practice and Building Law

Autumn session

300716.3 Building Studies
300947.2 Building Regulations

Quarter 3 session

301050.1 Disaster and Emergency Management (PG)

Spring session

300718.3 Fire Engineering Design and Assessment
200458.3 Building in Bushfire Prone Areas

Students may exit at this point with a Graduate Diploma in Building Surveying (120 credit points)**Year 3****Autumn session**

300597.3 Master Project 1
301004.1 Research Preparation in Post Graduate Studies

Spring session

300598.4 Master Project 2

And one elective unit

Autumn intake**Year 1****Autumn session**

300948.2 Fire Technology and Engineering Principles
301103.1 Interpreting Building Regulations (Residential Buildings)

Spring session

300711.3 Building Fire Services
300717.3 Egress and Risk Assessment

Summer session

300708.4 Planning and Development Control
300713.3 Building Engineering

Students may exit at this point with a Graduate Certificate in Building Surveying (60 credit points)**Year 2****Autumn session**

300716.3 Building Studies
300947.2 Building Regulations

Quarter 3 session

301050.1 Disaster and Emergency Management (PG)

Spring session

300718.3 Fire Engineering Design and Assessment
200458.3 Building in Bushfire Prone Areas

Summer session

301104.1 Professional Practice and Building Law

Students may exit at this point with a Graduate Diploma in Building Surveying (120 credit points)**Year 3****Autumn session**

300597.3 Master Project 1

301004.1 Research Preparation in Post Graduate Studies

Spring session

300598.4 Master Project 2

And one elective unit

Spring intake**Year 1****Spring session**

300711.3 Building Fire Services
300717.3 Egress and Risk Assessment

Summer session

300708.4 Planning and Development Control
300713.3 Building Engineering

Year 2**Autumn session**

300948.2 Fire Technology and Engineering Principles
301103.1 Interpreting Building Regulations (Residential Buildings)

Students may exit at this point with a Graduate Certificate in Building Surveying (60 credit points)**Quarter 3 session**

301050.1 Disaster and Emergency Management (PG)

Spring session

300718.3 Fire Engineering Design and Assessment
200458.3 Building in Bushfire Prone Areas

Summer session

301104.1 Professional Practice and Building Law

Year 3**Autumn session**

300716.3 Building Studies
300947.2 Building Regulations

Students may exit at this point with a Graduate Diploma in Building Surveying (120 credit points)**Spring session**

300597.3 Master Project 1
301004.1 Research Preparation in Post Graduate Studies

Year 4**Autumn session**

300598.4 Master Project 2

And one elective unit

Graduate Diploma in Building Surveying

3704.2

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 2016 or later.

Units may be revised or replaced to ensure students are provided with up to date curriculum throughout their studies, and this may result in a new course version. Refer to the Check My Course Progress page in MySR for the most up to date information for your course.

This 2-year part-time Graduate Diploma program aims to provide students with the special knowledge and skills to assess, evaluate and recommend building solutions. It is relevant to professionals certifying alternative solutions under the performance based building code and other relevant standards and guidelines. The course enables students to understand performance requirements, basic fire technology and engineering principles, building access and sustainability and other issues related to building surveying practice.

This postgraduate course has been designed primarily as a Distance Learning course. However, a select unit (one in total) has a 5 day intensive block style compulsory workshop that requires students to attend. This workshop will include fieldwork, site visits or industry tours. Many of the other units have non-compulsory workshops and students are encouraged to attend these workshops to gain the benefit of the face to face interaction within the course. This course sets a pathway for further learning at the advanced Master level.

Study Mode

Two years part-time.

Location

Campus	Attendance Mode
Parramatta Campus	Part Time External

Accreditation

The course is recognised by NSW Building Professionals Board (BPB). Provisional accreditation with Australian Institute of Building Surveyors (AIBS) has been received with full accreditation to be finalised in 2016.

Admission

Applicants must have an undergraduate degree or higher, in engineering, building, building surveying, construction, planning, bushfire protection or architecture;
OR

A Diploma or higher, in engineering, building, building surveying, construction, planning, bushfire protection or architecture PLUS at least four years full-time equivalent professional work experience in the relevant fields in the building industry or local government.

Applicants seeking admission on the basis of work experience must support their application with a Statement of Service for all work experience listed on the application.

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 the University 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 Western Sydney University.

Course Structure

Qualification for this award requires the successful completion of 120 credit points as per the recommended sequence below.

Recommended Sequence

Summer intake

Year 1

Summer session

300708.4	Planning and Development Control
300713.3	Building Engineering

Autumn session

300948.2	Fire Technology and Engineering Principles
301103.1	Interpreting Building Regulations (Residential Buildings)

Spring session

300711.3	Building Fire Services
300717.3	Egress and Risk Assessment

Students may exit at this point with a Graduate Certificate in Building Surveying (60 credit points)

Year 2

Summer session

301104.1	Professional Practice and Building Law
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Autumn session

300716.3	Building Studies
300947.2	Building Regulations

Quarter 3 session

301050.1	Disaster and Emergency Management (PG)
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Spring session

300718.3	Fire Engineering Design and Assessment
200458.3	Building in Bushfire Prone Areas

Autumn intake**Year 1****Autumn session**

- 300948.2** Fire Technology and Engineering Principles
301103.1 Interpreting Building Regulations
 (Residential Buildings)

Spring session

- 300711.3** Building Fire Services
300717.3 Egress and Risk Assessment

Summer session

- 300708.4** Planning and Development Control
300713.3 Building Engineering

Students may exit at this point with a Graduate Certificate in Building Surveying (60 credit points)

Year 2**Autumn session**

- 300716.3** Building Studies
300947.2 Building Regulations

Quarter 3 session

- 301050.1** Disaster and Emergency Management (PG)

Spring session

- 300718.3** Fire Engineering Design and Assessment
200458.3 Building in Bushfire Prone Areas

Summer session

- 301104.1** Professional Practice and Building Law

Spring intake**Year 1****Spring session**

- 300711.3** Building Fire Services
300717.3 Egress and Risk Assessment

Year 2**Summer session**

- 300708.4** Planning and Development Control
300713.3 Building Engineering

Autumn session

- 300948.2** Fire Technology and Engineering Principles
301103.1 Interpreting Building Regulations
 (Residential Buildings)

Students may exit at this point with a Graduate Certificate in Building Surveying (60 credit points)

Quarter 3 session

- 301050.1** Disaster and Emergency Management (PG)

Spring session

- 300718.3** Fire Engineering Design and Assessment
200458.3 Building in Bushfire Prone Areas

Year 3**Summer session**

- 301104.1** Professional Practice and Building Law

Autumn session

- 300716.3** Building Studies
300947.2 Building Regulations

Graduate Certificate in Building Surveying**3712.2**

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 2016 or later.

Units may be revised or replaced to ensure students are provided with up to date curriculum throughout their studies, and this may result in a new course version. Refer to the Check My Course Progress page in MySR for the most up to date information for your course.

This one year part-time Graduate Certificate program which aims to provide students with the knowledge and basic skills to develop, assess and evaluate building solutions for built environment. The course enables students to understand principles; planning and development control, sustainability and other fundamental issues relating to basic fire technology and engineering that are applicable to building surveying practice. This course covers the interpretation building laws, building regulations and associated Australian Standards relating to the built environment for low-rise buildings. Satisfactory completion of this course establishes a pathway to advanced qualification at the Graduate Diploma level.

Study Mode

One year part-time

Location

Campus	Attendance	Mode
Parramatta Campus	Part Time	External

Admission

Applicants must have an undergraduate degree or higher, or a Diploma in any discipline plus four years full-time equivalent professional work experience in engineering, building, building surveying, construction, planning, bushfire protection or architecture.

Applicants seeking admission on the basis of work experience must support their application with a Statement of Service for all work experience listed on the application.

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 the University 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 Western Sydney University.

Course Structure

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

Recommended Sequence

Summer intake

Year 1

Summer session

300708.4 Planning and Development Control
300713.3 Building Engineering

Autumn session

300948.2 Fire Technology and Engineering Principles
301103.1 Interpreting Building Regulations
(Residential Buildings)

Spring session

300711.3 Building Fire Services
300717.3 Egress and Risk Assessment

Autumn intake

Year 1

Autumn session

300948.2 Fire Technology and Engineering Principles
301103.1 Interpreting Building Regulations
(Residential Buildings)

Spring session

300711.3 Building Fire Services
300717.3 Egress and Risk Assessment

Summer session

300708.4 Planning and Development Control
300713.3 Building Engineering

Spring intake

Year 1

Spring session

300711.3 Building Fire Services
300717.3 Egress and Risk Assessment

Summer session

300708.4 Planning and Development Control
300713.3 Building Engineering

Year 2

Autumn session

300948.2 Fire Technology and Engineering Principles
301103.1 Interpreting Building Regulations
(Residential Buildings)

Master of Bushfire Protection

3708.2

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 2016 or later.

Units may be revised or replaced to ensure students are provided with up to date curriculum throughout their studies, and this may result in a new course version. Refer to the Check My Course Progress page in MySR for the most up to date information for your course.

This three-year part-time Master's program provides students with an understanding of the behaviour and danger of bushfires. Students will gain the knowledge of the relevant planning provisions, building regulations, standards and emergency management arrangements for bushfire protection. Graduates will be able to conduct risk assessments, provide advice on developments in bushfire prone areas and develop alternative engineering design solutions. Graduates will also acquire the skill to independently conduct research to address contemporary issues faced by the building industry in bush fire prone areas.

This postgraduate course has been designed primarily as a Distance Learning course. However, select units (three in total) have intensive block style compulsory workshops that require students to attend. These workshops may include fieldwork, site visits or industry tours. Many of the other units have non-compulsory workshops and students are encouraged to attend the workshops to gain the benefit of the face to face interaction within the course.

Study Mode

Three years part-time. Students can fast-track by completing additional units per semester to complete the course earlier.

Location

Campus	Attendance	Mode
Parramatta Campus	Part Time	External

Accreditation

Accreditation by Fire Protection Association Australia is currently being sought.

Admission

Applicants must have an undergraduate degree or higher, in bushfire protection, engineering, land surveying, building, building surveying, construction, planning, urban studies, architecture, landscape architecture, physical sciences, environmental studies, natural resource management, emergency management, land-use planning, local government or public sector management.

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 the University 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 Western Sydney University.

Course Structure

Qualification for this award requires the successful completion of 160 credit points as per the recommended sequence below.

Recommended Sequence**Summer intake****Year 1****Summer session**

300708.4	Planning and Development Control
200500.3	Bushfire Fighting

Autumn session

200457.4	Bushfire Behaviour
301103.1	Interpreting Building Regulations (Residential Buildings)

Spring session

301049.1	Planning for Bushfire Prone Areas
200458.3	Building in Bushfire Prone Areas

Students may exit at this point with a Graduate Certificate in Bushfire Protection (60 credit points) - for Summer Intake only.

Year 2**Summer session**

301104.1	Professional Practice and Building Law
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Autumn session

300948.2	Fire Technology and Engineering Principles
301002.1	Specialised Software Applications

Quarter 3 session

301050.1	Disaster and Emergency Management (PG)
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Spring session

200459.3	Emergency Management for Bushfire Prone Areas
200499.5	Alternative Solutions for Bushfire Prone Areas

Students may exit at this point with a Graduate Diploma in Bushfire Protection (120 credit points)

Year 3**Autumn session**

300597.3	Master Project 1
301004.1	Research Preparation in Post Graduate Studies

Spring session

300598.4	Master Project 2
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And one elective

Autumn intake**Year 1****Autumn session**

200457.4	Bushfire Behaviour
301103.1	Interpreting Building Regulations (Residential Buildings)

Spring session

200458.3	Building in Bushfire Prone Areas
200459.3	Emergency Management for Bushfire Prone Areas

Summer session

300708.4	Planning and Development Control
200500.3	Bushfire Fighting

Year 2**Autumn session**

300948.2 Fire Technology and Engineering Principles
301002.1 Specialised Software Applications

Quarter 3 session

301050.1 Disaster and Emergency Management (PG)

Spring session

301049.1 Planning for Bushfire Prone Areas
200499.5 Alternative Solutions for Bushfire Prone Areas

Summer session

301104.1 Professional Practice and Building Law

Students may exit at this point with a Graduate Diploma in Bushfire Protection (120 credit points)

Year 3**Autumn session**

300597.3 Master Project 1
301004.1 Research Preparation in Post Graduate Studies

Spring session

300598.4 Master Project 2

And one elective

Spring intake**Year 1****Spring session**

200458.3 Building in Bushfire Prone Areas
200459.3 Emergency Management for Bushfire Prone Areas

Summer session

300708.4 Planning and Development Control
200500.3 Bushfire Fighting

Year 2**Autumn session**

300948.2 Fire Technology and Engineering Principles
301103.1 Interpreting Building Regulations (Residential Buildings)

Spring session

301049.1 Planning for Bushfire Prone Areas
301004.1 Research Preparation in Post Graduate Studies

Summer session

301104.1 Professional Practice and Building Law

Year 3**Autumn session**

200457.4 Bushfire Behaviour
301002.1 Specialised Software Applications

Quarter 3 session

301050.1 Disaster and Emergency Management (PG)

Students may exit at this point with a Graduate Diploma in Bushfire Protection (120 credit points)

Spring session

300597.3 Master Project 1
200499.5 Alternative Solutions for Bushfire Prone Areas

Year 4**Autumn session**

300598.4 Master Project 2

And one elective

Graduate Diploma in Bushfire Protection**3709.2**

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 2016 or later.

Units may be revised or replaced to ensure students are provided with up to date curriculum throughout their studies, and this may result in a new course version. Refer to the Check My Course Progress page in MySR for the most up to date information for your course.

This two-year part-time Graduate Diploma program provides students with a comprehensive understanding of the behaviour and danger of bushfires in relation to local vegetation, land management and weather conditions. Students will gain the knowledge of emergency management and bushfire fighting techniques. Graduates will be able to provide advice on developments in bushfire prone areas, assess building designs against both the deemed-to-satisfy and performance requirements of the planning provisions, building code and standards. The course is a recognised qualification for accreditation with the relevant professional body.

This postgraduate course has been designed primarily as a Distance Learning course. However, select units (three in total) have intensive block style compulsory workshops that require students to attend. These workshops may include fieldwork, site visits or industry tours. Many of the other units have non-compulsory workshops and students are encouraged to attend the workshops to gain the benefit of

the face to face interaction within the course. This course also sets a pathway for further learning at the Master level.

Study Mode

Two years part-time.

Location

Campus	Attendance Mode
Parramatta Campus	Part Time External

Accreditation

Accreditation by Fire Protection Association Australia is currently being sought.

Admission

Applicants must have an undergraduate degree or higher, in bushfire protection, engineering, land surveying, building, building surveying, construction, planning, urban studies, architecture, landscape architecture, physical sciences, environmental studies, natural resource management, emergency management, land-use planning, local government or public sector management;
OR

An AQF Diploma or higher in the bushfire protection, engineering, land surveying, building, building surveying, construction, planning, urban studies, architecture, landscape architecture, physical sciences, environmental studies, natural resource management, emergency management, land-use planning, local government or public sector management PLUS 4 years full-time equivalent professional and/or voluntary work experience in the relevant fields in industry, local government, or state fire services.

Applicants seeking admission on the basis of work experience must support their application with a Statement of Service for all work experience listed on the application.

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 the University 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 Western Sydney University.

Course Structure

Qualification for this award requires the successful completion of 120 credit points as per the recommended sequence below.

Recommended Sequence

Summer intake

Year 1

Summer session

300708.4	Planning and Development Control
200500.3	Bushfire Fighting

Autumn session

200457.4	Bushfire Behaviour
301103.1	Interpreting Building Regulations (Residential Buildings)

Spring session

301049.1	Planning for Bushfire Prone Areas
200458.3	Building in Bushfire Prone Areas

Students may exit at this point with a Graduate Certificate in Bushfire Protection (60 credit points) - for Summer Intake only.

Year 2

Summer session

301104.1	Professional Practice and Building Law
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Autumn session

300948.2	Fire Technology and Engineering Principles
301002.1	Specialised Software Applications

Quarter 3 session

301050.1	Disaster and Emergency Management (PG)
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Spring session

200459.3	Emergency Management for Bushfire Prone Areas
200499.5	Alternative Solutions for Bushfire Prone Areas

Autumn intake

Year 1

Autumn session

200457.4	Bushfire Behaviour
301103.1	Interpreting Building Regulations (Residential Buildings)

Spring session

200458.3	Building in Bushfire Prone Areas
200459.3	Emergency Management for Bushfire Prone Areas

Summer session

300708.4	Planning and Development Control
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200500.3 Bushfire Fighting**Year 2****Autumn session**

- 300948.2** Fire Technology and Engineering Principles
301002.1 Specialised Software Applications

Quarter 3 session

- 301050.1** Disaster and Emergency Management (PG)

Spring session

- 301049.1** Planning for Bushfire Prone Areas
200499.3 Alternative Solutions for Bushfire Prone Areas

Summer session

- 301104.1** Professional Practice and Building Law

Spring intake**Year 1****Spring session**

- 200458.3** Building in Bushfire Prone Areas
200459.3 Emergency Management for Bushfire Prone Areas

Summer session

- 300708.4** Planning and Development Control
200500.3 Bushfire Fighting

Year 2**Autumn session**

- 300948.2** Fire Technology and Engineering Principles
301103.1 Interpreting Building Regulations (Residential Buildings)

Quarter 3 session

- 301050.1** Disaster and Emergency Management (PG)

Spring session

- 301049.1** Planning for Bushfire Prone Areas
200499.3 Alternative Solutions for Bushfire Prone Areas

Summer session

- 301104.1** Professional Practice and Building Law

Year 3**Autumn session**

- 200457.4** Bushfire Behaviour
301002.1 Specialised Software Applications

Graduate Certificate in Bushfire Protection**3710.2**

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 2016 or later.

Units may be revised or replaced to ensure students are provided with up to date curriculum throughout their studies, and this may result in a new course version. Refer to the Check My Course Progress page in MySR for the most up to date information for your course.

This one-year part-time Graduate Certificate program aims to provide professionals with a comprehensive understanding of the behaviour and danger of bushfires in relation to local vegetation, land management and weather conditions. Students will gain the knowledge of the relevant planning and building regulations, standards and fire fighting. 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.

This postgraduate course has been designed primarily as a Distance Learning course. However, select units (two in total) have intensive block style compulsory workshops that require students to attend. These workshops may include fieldwork, site visits or industry tours. Many of the other units have non-compulsory workshops and students are encouraged to attend the workshops to gain the benefit of the face to face interaction within the course. This course sets a pathway for further learning at Graduate Diploma and Masters levels.

Study Mode

One year part-time.

Location

Campus	Attendance	Mode
Parramatta Campus	Part Time	External

Accreditation

Accreditation by Fire Protection Association Australia is currently being sought.

Admission

Applicants must have an undergraduate degree or higher, in bushfire protection, engineering, land surveying, building, building surveying, construction, planning, urban studies, architecture, landscape architecture, physical sciences, environmental studies, natural resource management, emergency management, land-use planning, local government or public sector management

OR

A Diploma or higher in in bushfire protection, engineering, land surveying, building, building surveying, construction, planning, urban studies, architecture, landscape architecture, physical sciences, environmental studies, natural resource management, emergency management, land-use planning, local government or public sector

management PLUS 2 years full-time equivalent professional and/or voluntary work experience in the relevant fields in industry, local government or state fire services

OR

A Certificate III or higher (AQF 3 or higher) in bushfire protection, engineering, land surveying, building, building surveying, construction, planning, urban studies, architecture, landscape architecture, physical sciences, environmental studies, natural resource management, emergency management, land-use planning, local government or public sector management or public safety (firefighting) PLUS at least 5 years full-time equivalent professional and/or voluntary work experience in the relevant fields in industry, local government or state fire services.

Applicants seeking admission on the basis of work experience must support their application with a Statement of Service for all work experience listed on the application.

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 the University 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 Western Sydney University.

Course Structure

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

Recommended Sequence

Year 1

Summer session

300708.4 Planning and Development Control
200500.3 Bushfire Fighting

Autumn session

200457.4 Bushfire Behaviour
301103.1 Interpreting Building Regulations (Residential Buildings)

Spring session

200458.3 Building in Bushfire Prone Areas
301049.1 Planning for Bushfire Prone Areas

Master of Data Science

3735.1

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 2016 or later.

Increasingly in the digital age data plays an important role in most, if not all, occupations. Extracting information from data has become a science in itself, blending skill sets from mathematics, statistics and computing. With a strong applications focus, this course covers the nature of data including Big and Unstructured Data, how to embark on data driven investigations and visual and computational analytics. The course graduates will have the knowledge and skills required to operate effectively in a data driven world.

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

Admission

To enter the Master of Data Science program applicants must have successfully completed an undergraduate degree, or higher, in any discipline.

Additional Information

Assumed Knowledge:

For a student to successfully complete this course they will need to have an understanding of Mathematics equivalent to 2-unit HSC, and experience with the use of computer software such as Excel or Word. Previous experience of statistics or computer programming will be an advantage but is not essential.

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 the University should also use the information provided on the UAC website.

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

International students applying to The University through the International Office can find details of minimum English proficiency requirements and acceptable proof on their 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 Western Sydney University.

Course Structure

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

Recommended Sequence

Full-time

Year 1

Autumn session

301113.1	Programming for Data Science
301114.1	The Nature of Data
301046.1	Big Data (PG)
301112.1	Visualisation

Spring session

301044.1	Data Science
301115.1	Advanced Statistical Methods
301117.1	Predictive Analytics

And one elective

Year 2

Autumn session

301116.1	Social Media Intelligence
300597.3	Master Project 1
301118.1	Genomic Data Science

And one elective

Spring session

301119.1	Advanced Machine Learning
300598.4	Master Project 2

And two electives

All elective units must be at Postgraduate Level 7

Master of Engineering

3693.1

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 is 2015 or later.

The Master of Engineering has been designed to meet Engineers Australia professional accreditation requirements. It enables professionals in Engineering 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 further build their skills as their specialised professional field evolves. Advanced standing may be granted for relevant prior studies.

Study Mode

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

Location

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

Accreditation

This course has received Provisional accreditation by Engineers Australia at the level of Professional Engineer.

Admission

Applicants must have successfully completed a recognised four year undergraduate degree, or higher, in engineering in one of the specialisations, e.g. Civil, Environmental, Mechatronic, Mechanical, Electrical, Telecommunication.

Additional Information:

Advanced standing may be granted for relevant prior studies for students who have successfully completed an Engineers Australia accredited four year Bachelor of Engineering program.

Students who have successfully completed a recognised three year undergraduate degree in Science or four year Bachelor of Engineering in a different specialisation or equivalent qualifications must undertake and complete specified non-award undergraduate engineering units with approval of the Director of Academic Program before articulation to the Master of Engineering.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admission 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 the University should also use the information provided on the UAC website.

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

International students applying to The University through the International Office can find details of minimum English proficiency requirements and acceptable proof on their 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 Western Sydney University.

Course Structure

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

Students must complete eight core units, five specialised alternates from chosen area of specialisation and three 10 credit point electives.

Core Units

301002.1	Specialised Software Applications
300597.3	Master Project 1
300598.4	Master Project 2
301003.1	Sustainable Systems
301004.1	Research Preparation in Post Graduate Studies
301005.1	Professional Practice and Communication
301006.1	Advanced Engineering Project 1
301007.1	Advanced Engineering Project 2

Specialisations

All students must enrol in a Specialisation before enrolling in their units

ST3027.1	Civil
ST3028.1	Electrical
ST3029.1	Environmental
ST3030.1	Mechanical
ST3031.1	Mechatronic
ST3032.1	Telecommunication

Recommended Sequence

Units may not be offered in their recommended sequence. Students should seek Academic advice.

Year 1**Autumn session**

301005.1	Professional Practice and Communication
301003.1	Sustainable Systems

Specialised Alternate 1 or Elective 1
Specialised Alternate 2 or Elective 2

Spring session

301004.1	Research Preparation in Post Graduate Studies
301006.1	Advanced Engineering Project 1

Elective 1 or Specialised Alternate 1
Elective 2 or Specialised Alternate 2

Year 2**Autumn session**

300597.3	Master Project 1
301007.1	Advanced Engineering Project 2

Specialised Alternate 3 or Elective 3
Specialised Alternate 4

Spring session

300598.4	Master Project 2
301002.1	Specialised Software Applications

Elective 3 or Specialised Alternate 3
Specialised Alternate 5

Specialist alternate offering is subject to sufficient student demand and may not be offered annually.

Students must also complete (as a condition for EA accreditation) a 12-week industrial experience training program:

301027.1	Industrial Experience (PG)
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Graduate Diploma in Engineering (exit only)**3694.1**

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 is 2015 or later.

This is an exit award only. Students may choose to exit the Master of Engineering after completing 120 Credit Points with the degree of Graduate Diploma in Engineering.

The Graduate Diploma in Engineering provides an opportunity to professionals in Engineering 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.

Study Mode

One and a half years full time or three years part-time.

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.

Course Structure

The Graduate Diploma is a 120 credit point degree and is an exit award only from the Master of Engineering.

Students may exit with the Graduate Diploma on completion of six core units, four specialised alternates from chosen area of specialisation and two 10 credit point electives.

Core Units

301005.1	Professional Practice and Communication
301004.1	Research Preparation in Post Graduate Studies
301003.1	Sustainable Systems
301002.1	Specialised Software Applications
301006.1	Advanced Engineering Project 1
301007.1	Advanced Engineering Project 2

Specialisations offered

All students must enrol in a Specialisation before enrolling in their units

ST3027.1	Civil
ST3028.1	Electrical
ST3029.1	Environmental
ST3030.1	Mechanical
ST3031.1	Mechatronic
ST3032.1	Telecommunication

Graduate Certificate in Engineering

3695.1

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 is 2015 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

One year full time or two years part-time.

Location

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

Admission

Applicants must have successfully completed an Engineers Australia accredited three year undergraduate degree in Engineering Science or a recognised four year undergraduate degree in Engineering in one of the specialisations, e.g. Civil, Environmental, Mechatronic, Mechanical, Electrical, Telecommunication.

Additional Information:

Advanced standing may be granted for relevant prior studies for students who have successfully completed an Engineers Australia accredited four year Bachelor of Engineering program.

Those who have successfully completed a recognised three year undergraduate degree in Science or four year Bachelor of Engineering in another specialisation or equivalent qualifications must undertake and complete specified non-award undergraduate engineering units with approval of the Director of Academic Program before articulation to the Graduate Certificate in Engineering.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admission 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 the University should also use the information provided on the UAC website.

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

International students applying to The University through the International Office can find details of minimum English proficiency requirements and acceptable proof on their 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 Western Sydney University.

Course Structure

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

Students must complete four core units and four specialised alternates from chosen area of specialisation.

Core Units

301005.1	Professional Practice and Communication
301004.1	Research Preparation in Post Graduate Studies
301003.1	Sustainable Systems
301006.1	Advanced Engineering Project 1

Specialisations

All students must enrol in a Specialisation before enrolling in their units

ST3027.1	Civil
ST3028.1	Electrical
ST3029.1	Environmental
ST3030.1	Mechanical
ST3031.1	Mechatronic
ST3032.1	Telecommunication

Master of Fire Safety Engineering

3705.2

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 2016 or later.

Units may be revised or replaced to ensure students are provided with up to date curriculum throughout their studies, and this may result in a new course version. Refer to the Check My Course Progress page in MySR for the most up to date information for your course.

This three-year part-time Master's program aims to provide professionals with the special skills and knowledge to develop, assess and evaluate fire safety engineering solutions for built environment. The course covers fire safety science and engineering principles. It is relevant to professionals developing alternative solutions using the fire

engineering guidelines to meet the objectives and performance requirements of building regulations. Graduates will also acquire the skill to independently appraise the literature and address fire safety engineering issues faced by the building industry.

This postgraduate course has been designed primarily as a Distance Learning course. However, a select unit (one in total) has a 5 day intensive block style compulsory workshop that requires students to attend. This workshop will include fieldwork, site visits or industry tours. Many of the other units have non-compulsory workshops and students are encouraged to attend these workshops to gain the benefit of the face to face interaction within the course.

Study Mode

Three years part-time. Students can fast-track by completing additional units per semester to complete the course earlier.

Location

Campus	Attendance Mode
Parramatta Campus	Part Time External

Admission

Applicants must have an undergraduate degree or higher, in engineering, building, construction, building surveying, bushfire protection, architecture or physical 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 the University 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 Western Sydney University.

Course Structure

Qualification for this award requires the successful completion of 160 credit points as per the recommended sequence below.

Recommended Sequence

Summer intake

Year 1

Summer session

301048.1	Fire Engineering Science
300713.3	Building Engineering

Autumn session

300947.2	Building Regulations
300709.3	Fire Engineering 1 (Fire Dynamics)

Spring session

300717.3	Egress and Risk Assessment
300711.3	Building Fire Services

Students may exit at this point with a Graduate Certificate in Fire Safety Engineering (60 credit points)

Year 2

Summer session

301104.1	Professional Practice and Building Law
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Autumn session

300710.3	Fire Engineering 2 (Fire Models)
301002.1	Specialised Software Applications

Quarter 3 session

301050.1	Disaster and Emergency Management (PG)
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Spring session

200458.3	Building in Bushfire Prone Areas
300718.3	Fire Engineering Design and Assessment

Students may exit at this point with a Graduate Diploma in Fire Safety Engineering (120 credit points)

Year 3

Autumn session

300597.3	Master Project 1
301004.1	Research Preparation in Post Graduate Studies

Spring session

300598.4	Master Project 2
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And one elective

Autumn intake

Year 1

Autumn session

300947.2	Building Regulations
300709.3	Fire Engineering 1 (Fire Dynamics)

Spring session

300717.3	Egress and Risk Assessment
300711.3	Building Fire Services

Summer session

301048.1	Fire Engineering Science
300713.3	Building Engineering

Students may exit at this point with a Graduate Certificate in Fire Safety Engineering (60 credit points)**Year 2****Autumn session**

300710.3 Fire Engineering 2 (Fire Models)
301002.1 Specialised Software Applications

Quarter 3 session

301050.1 Disaster and Emergency Management (PG)

Spring session

200458.3 Building in Bushfire Prone Areas
300718.3 Fire Engineering Design and Assessment

Summer session

301104.1 Professional Practice and Building Law

Students may exit at this point with a Graduate Diploma in Fire Safety Engineering (120 credit points)**Year 3****Autumn session**

300597.3 Master Project 1
301004.1 Research Preparation in Post Graduate Studies

Spring session

300598.4 Master Project 2

And one elective

Spring intake**Year 1****Spring session**

300717.3 Egress and Risk Assessment
300711.3 Building Fire Services

Summer session

301048.1 Fire Engineering Science
300713.3 Building Engineering

Year 2**Autumn session**

300947.2 Building Regulations
300709.3 Fire Engineering 1 (Fire Dynamics)

Students may exit at this point with a Graduate Certificate in Fire Safety Engineering (60 credit points)**Quarter 3 session**

301050.1 Disaster and Emergency Management (PG)

Spring session

200458.3 Building in Bushfire Prone Areas
300718.3 Fire Engineering Design and Assessment

Summer session

301104.1 Professional Practice and Building Law

Year 3**Autumn session**

300710.3 Fire Engineering 2 (Fire Models)
301002.1 Specialised Software Applications

Students may exit at this point with a Graduate Diploma in Fire Safety Engineering (120 credit points)**Spring session**

300597.3 Master Project 1
301004.1 Research Preparation in Post Graduate Studies

Autumn session

300598.4 Master Project 2

And one elective

Graduate Diploma in Fire Safety Engineering**3706.2**

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 2016 or later.

Units may be revised or replaced to ensure students are provided with up to date curriculum throughout their studies, and this may result in a new course version. Refer to the Check My Course Progress page in MySR for the most up to date information for your course.

This two-year part-time Graduate Diploma program aims to provide professionals with the special skills and knowledge to develop, assess and evaluate fire safety engineering solutions for built environment. The course covers fire safety science and engineering principles. It is relevant to professionals developing alternative solutions using the fire engineering guidelines to meet the objectives and performance requirements of building regulations.

This postgraduate course has been designed primarily as a Distance Learning course. However, a select unit (one in total) has a 5 day intensive block style compulsory workshop that requires students to attend. This workshop will include fieldwork, site visits or industry tours. Many of the other units have non-compulsory workshops and students are encouraged to attend these workshops to gain the benefit of the face to face interaction within the course.

Study Mode

Two years part-time. Students can fast-track by completing additional units per semester to complete the course earlier.

Location

Campus	Attendance Mode
Parramatta Campus	Part Time External

Admission

Applicants must have an undergraduate degree or higher, in engineering, building, construction, building surveying, bushfire protection, architecture or physical sciences
OR

A Diploma or higher in engineering, building, construction, building surveying, bushfire protection, architecture or physical sciences PLUS 4 years full-time equivalent professional and/or voluntary work experience in the relevant fields in the building industry, local government or state fire services.

Applicants seeking admission on the basis of work experience must support their application with a Statement of Service for all work experience listed on the application.

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 the University 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 Western Sydney University.

Course Structure

Qualification for this award requires the successful completion of 120 credit points as per the recommended sequence below.

Recommended Sequence**Summer intake****Year 1****Summer session**

301048.1	Fire Engineering Science
300713.3	Building Engineering

Autumn session

300947.2	Building Regulations
300709.3	Fire Engineering 1 (Fire Dynamics)

Spring session

300717.3	Egress and Risk Assessment
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300711.3	Building Fire Services
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Students may exit at this point with a Graduate Certificate in Fire Safety Engineering (60 credit points)

Year 2**Summer session**

301104.1	Professional Practice and Building Law
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Autumn session

300710.3	Fire Engineering 2 (Fire Models)
301002.1	Specialised Software Applications

Quarter 3 session

301050.1	Disaster and Emergency Management (PG)
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Spring session

200458.3	Building in Bushfire Prone Areas
300718.3	Fire Engineering Design and Assessment

Autumn intake**Year 1****Autumn session**

300947.2	Building Regulations
300709.3	Fire Engineering 1 (Fire Dynamics)

Spring session

300717.3	Egress and Risk Assessment
300711.3	Building Fire Services

Summer session

301048.1	Fire Engineering Science
300713.3	Building Engineering

Students may exit at this point with a Graduate Certificate in Fire Safety Engineering (60 credit points)

Year 2**Autumn session**

300710.3	Fire Engineering 2 (Fire Models)
301002.1	Specialised Software Applications

Quarter 3 session

301050.1	Disaster and Emergency Management (PG)
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Spring session

200458.3	Building in Bushfire Prone Areas
300718.3	Fire Engineering Design and Assessment

Summer session

301104.1	Professional Practice and Building Law
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Spring intake

Year 1

Spring session

300717.3 Egress and Risk Assessment
300711.3 Building Fire Services

Summer session

301048.1 Fire Engineering Science
300713.3 Building Engineering

Year 2

Autumn session

300947.2 Building Regulations
300709.3 Fire Engineering 1 (Fire Dynamics)

Students may exit at this point with a Graduate Certificate in Fire Safety Engineering (60 credit points)

Quarter 3 session

301050.1 Disaster and Emergency Management (PG)

Spring session

200458.3 Building in Bushfire Prone Areas
300718.3 Fire Engineering Design and Assessment

Summer session

301104.1 Professional Practice and Building Law

Year 3

Autumn session

300710.3 Fire Engineering 2 (Fire Models)
301002.1 Specialised Software Applications

Graduate Certificate in Fire Safety Engineering

3707.1

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 2015 or later.

This one year part-time Graduate Certificate program aims to provide professionals with the special skills and knowledge to develop, assess and evaluate fire safety engineering solutions for built environment. The course delivers the fundamentals of fire safety science and engineering principles. It introduces the performance based build regulatory framework under which fire safety engineering is practiced. The active building fire services, human response to fires and the concept of risk are also covered. The course is relevant to professionals assessing alternative solutions to meet the objectives and

performance requirements of building regulations. The course sets a pathway to advanced qualification at the Graduate Diploma level.

Study Mode

One year part-time.

Location

Campus	Attendance	Mode
Parramatta Campus	Part Time	External

Admission

Applicants must have an undergraduate degree or higher, in engineering, building, construction, building surveying, bushfire protection, architecture or physical sciences;

Or

A Diploma or higher in engineering, building, construction, building surveying, bushfire protection, architecture or physical sciences PLUS two years full-time equivalent professional and/or voluntary work experience in the relevant fields in the building industry, local government or state fire services.

Applicants seeking admission on the basis of work experience must support their application with a Statement of Service for all work experience listed on the application.

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 the University 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 Western Sydney University.

Course Structure

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

Recommended Sequence

Summer intake

Year 1

Summer session

301048.1 Fire Engineering Science
300713.3 Building Engineering

Autumn session

300947.2 Building Regulations
300709.3 Fire Engineering 1 (Fire Dynamics)

Spring session

300717.3 Egress and Risk Assessment
300711.3 Building Fire Services

Autumn intake**Year 1****Autumn session**

300947.2 Building Regulations
300709.3 Fire Engineering 1 (Fire Dynamics)

Spring session

300717.3 Egress and Risk Assessment
300711.3 Building Fire Services

Summer session

301048.1 Fire Engineering Science
300713.3 Building Engineering

Spring intake**Year 1****Spring session**

300717.3 Egress and Risk Assessment
300711.3 Building Fire Services

Summer session

301048.1 Fire Engineering Science
300713.3 Building Engineering

Year 2**Autumn session**

300947.2 Building Regulations
300709.3 Fire Engineering 1 (Fire Dynamics)

Master of Information and Communications Technology (Advanced)

3698.1

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 2015 or later.

Master of Information and Communications Technology (Advanced) course is for students seeking to progress their knowledge in Information and Communications Technology (ICT) discipline. This course is designed to provide in-depth knowledge in a range of theories and state-of-the-art developments in ICT. Students will be required to complete a work experience component and a specialisation, in addition to a number of core and elective units. The course aims to develop students with knowledge and skills required in problem solving and research practice and

provide opportunities to apply those skills and knowledge in a professional and ethical framework to develop themselves as lifelong learners.

Study Mode

Two and a half years full-time or two years full time depending upon entry qualifications (see Pathways listed under Course Structure below) or the equivalent 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 accredited with the Australian Computer Society (ACS) at Professional level.

Admission

Minimum admission requirements to this course are:

A Bachelor qualification in any discipline

Or

A Diploma in ICT/Computing/IS fields and five years full-time equivalent work experience in Information and Communications Technologies which includes experience in applying skills in: programming; networking; database design and development; systems analysis and design; and project management.

Additional Information

The course length and structure varies based on the student's previous study background and level, and work experience. Students should refer to the relevant Pathway listed under Course Structure below.

Applicants seeking admission on the basis of work experience must support their application with a Statement of Service for all work experience listed on the application.

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 the University should also use the information provided on the UAC website.

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

International students applying to The University through the International Office can find details of minimum English proficiency requirements and acceptable proof on their 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 Western Sydney University

Course Structure

The course length and structure varies based on the student's previous study background and level, and work experience.

Students are categorised into three Pathways based on their previous study background and work experience as indicated below and course structure and length is set accordingly. See individual links for detailed course structure.

Pathway A - Two and a half years

Students who have been admitted with non-Computing, non-ICT or non-Information Systems with Bachelor Qualifications are eligible to complete the two and a half year Pathway below.

A3000.1 Master of Information and Communications Technology (Advanced) Pathway A - 2.5 years

Pathway B - Two years

Students who have been admitted with non-Computing, non-ICT or non-Information Systems with Honours or Masters Qualifications are eligible to complete the two year Pathway below.

A3001.1 Master of Information and Communications Technology (Advanced) Pathway B - 2 years

Pathway C - Two years

Students who have been admitted with Computing, ICT or Information Systems with Bachelor OR with Honours or Masters Qualifications are eligible to complete the two year Pathway below.

A3002.1 Master of Information and Communications Technology (Advanced) Pathway C - 2 years

Additional Completion Requirements

Students must complete a four week full-time or part-time equivalent industry placement as a Work Integrated Learning (WIL) component and must enrol in the ICT Practicum unit to receive recognition for WIL.

301047.1 ICT Practicum

Students must also complete one of the listed Specialisations below.

ST3007.1 Networking
ST3033.1 Distributed Computing
ST3034.1 Management
ST3035.1 Web and Mobile Computing
ST3036.1 Health Informatics

Master of Information and Communications Technology

3699.1

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 2015 or later.

Master of Information and Communications Technology (MICT) sets the foundation for students to advance their careers in Information and Communications Technology and/or continue further learning in this discipline. Students will be required to complete a work experience component in addition to a number of core and elective units. Students may also chose to complete a specialisation out of the available specialisations for this course. This course is focused on getting students engaged in enquiry-based learning to acquire knowledge in established theories and recent state-of-the-art developments. Students are also expected develop skills in problem solving and research practice and apply those skills in a professional and ethical framework to develop themselves as lifelong learners.

Study Mode

Two years full-time or one and a half years full time depending upon entry qualifications (see Pathways listed under Course Structure below) or the equivalent 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 accredited with the Australian Computer Society (ACS) at Professional level.

Admission

Minimum admission requirements to this course are:

A Bachelor qualification in any discipline

Or

A Diploma in ICT/Computing/IS fields and five years full-time equivalent work experience in Information and Communications Technologies which includes experience in applying skills in: programming; networking; database design and development; systems analysis and design; and project management.

Additional Information

The course length and structure varies based on the student's previous study background and level, and work experience. Students should refer to the relevant Pathway listed under Course Structure below.

Applicants seeking admission on the basis of work experience must support their application with a Statement of Service for all work experience listed on the application.

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 the University should also use the information provided on the UAC website.

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

International students applying to The University through the International Office can find details of minimum English proficiency requirements and acceptable proof on their 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 Western Sydney University.

Course Structure

The course length and structure varies based on the student's previous study background and level, and work experience.

Students are categorised into three Pathways based on their previous study background and work experience as indicated below and course structure and length is set accordingly. See individual links for detailed course structure.

Pathway A - Two years

Students who have been admitted with non-Computing, non-ICT or non-Information Systems with Bachelor Qualifications are eligible to complete the two year Pathway below.

A3003.1 Master of Information and Communications Technology
Pathway A - 2 years

Pathway B - One and a half years

Students who have been admitted with non-Computing, non-ICT or non-Information Systems with Honours or Masters Qualifications are eligible to complete the one and a half year Pathway below.

A3004.1 Master of Information and Communications Technology
Pathway B - 1.5 years

Pathway C - One and a half years

Students who have been admitted with Computing, ICT or Information Systems with Bachelor OR with Honours or Masters Qualifications are eligible to complete the one and a half year Pathway below.

A3005.1 Master of Information and Communications Technology
Pathway C - 1.5 years

Additional Completion Requirements

Students must complete a four week full-time or part-time equivalent industry placement as a Work Integrated

Learning (WIL) component and must enrol in the ICT Practicum unit to receive recognition for WIL.

301047.1 ICT Practicum

Students may also complete one of the listed Specialisations below.

ST3007.1 Networking
ST3033.1 Distributed Computing
ST3034.1 Management
ST3035.1 Web and Mobile Computing
ST3036.1 Health Informatics

Graduate Diploma in Information and Communications Technology

3700.1

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 2015 or later.

Graduate Diploma in Information and Communications Technology (Grad Dip in ICT) is designed for students from both computing and non-computing backgrounds, to enable them to create pathways into higher studies in Information and Communications Technology and/or commencing a career in ICT. This course is aimed at allowing students to gain knowledge in state of the art developments in the ICT field, apply that knowledge in a professional and ethical framework and develop themselves as lifelong learners.

Study Mode

One and a half years full-time or one year full time depending upon entry qualifications (see Pathways listed under Course Structure below) or the equivalent part-time.

Location

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

Admission

Minimum admission requirements to this course are:

A Bachelor qualification in any discipline

Or

A Diploma in ICT/Computing/IS fields and five years full-time equivalent work experience in Information and Communications Technologies which includes experience in applying skills in: programming; networking; database design and development; systems analysis and design; and project management.

Additional Information

The course length and structure varies based on the student's previous study background and level, and work experience. Students should refer to the relevant Pathway listed under Course Structure below.

Applicants seeking admission on the basis of work experience must support their application with a Statement of Service for all work experience listed on the application.

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 the University should also use the information provided on the UAC website.

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

International students applying to The University through the International Office can find details of minimum English proficiency requirements and acceptable proof on their 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 Western Sydney University.

Course Structure

The course length and structure varies based on the student's previous study background and level, and work experience.

Students are categorised into three Pathways based on their previous study background and work experience as indicated below and course structure and length is set accordingly. See individual links for detailed course structure.

Pathway A - One and a half years

Students who have non-Computing, non-ICT or non-Information Systems with Bachelor qualifications are eligible to complete the one and a half year Pathway below.

A3006.1 Graduate Diploma in Information and Communications Technology
Pathway A - 1.5 years

Pathway B - One year

Students who have non-Computing, non-ICT or non-Information Systems with Honours or Masters qualifications are eligible to complete the one year Pathway below.

A3007.1 Graduate Diploma in Information and Communications Technology
Pathway B - 1 year

Pathway C - One year

Students who have Computing, ICT or Information Systems with Bachelor OR with Honours or Masters qualifications are eligible to complete the one year Pathway below.

A3008.1 Graduate Diploma in Information and Communications Technology
Pathway C - 1 year

Graduate Certificate in Information and Communications Technology

3701.1

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 2015 or later.

Graduate Certificate in Information and Communications Technology (Grad Cert in ICT) is designed for students from both computing and non-computing backgrounds. This course empowers students from computing background to enhance and update their knowledge in core concepts related to Information and Communications Technology domain to further progress their careers. Students from non-computing backgrounds can develop knowledge and skills in core topics related to ICT creating a pathway to higher studies in ICT and/or commencing a career in ICT.

Study Mode

One year full-time or six months full time depending upon entry qualifications (see Pathways listed under Course Structure below) or the equivalent part-time.

Location

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

Admission

Minimum admission requirements to this course are:

A Bachelor qualification in any discipline

Or

A Diploma in ICT/Computing/IS fields and five years full-time equivalent work experience in Information and Communications Technologies which includes experience in applying skills in: programming; networking; database design and development; systems analysis and design; and project management.

Additional Information

The course length and structure varies based on the student's previous study background and level, and work experience. Students should refer to the relevant Pathway listed under Course Structure below.

Applicants seeking admission on the basis of work experience must support their application with a Statement of Service for all work experience listed on the application.

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 the University should also use the information provided on the UAC website.

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

International students applying to The University through the International Office can find details of minimum English proficiency requirements and acceptable proof on their 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 Western Sydney University.

Course Structure

The course length and structure varies based on the student's previous study background and level, and work experience.

Students are categorised into three Pathways based on their previous study background and work experience as indicated below and course structure and length is set accordingly. See individual links for detailed course structure.

Pathway A - One year

Students who have non-Computing, non-ICT or non-Information Systems with Bachelor qualifications are eligible to complete the one year Pathway below.

A3009.1 Graduate Certificate in Information and Communications Technology
Pathway A - 1 year

Pathway B - Six months

Students who have non-Computing, non-ICT or non-Information Systems with Honours or Masters qualifications are eligible to complete the six month Pathway below.

A3010.1 Graduate Certificate in Information and Communications Technology
Pathway B - 0.5 year

Pathway C - Six months

Students who have Computing, ICT or Information Systems with Bachelor OR with Honours or Masters qualifications are eligible to complete the six month Pathway below.

A3011.1 Graduate Certificate in Information and Communications Technology
Pathway C - 0.5 year

Specialisations

Postgraduate Admission Pathway - Master of Information and Communications Technology (Advanced) Pathway A - 2.5 years

A3000.1

Students with Non-Computing/non-ICT/non-IS with Bachelor qualifications must have a minimum of three year undergraduate degree in any discipline or Approved diploma course in ICT/Computing/IS fields and a minimum of five years full-time equivalent work experience in Information and Communications Technologies which includes experience in applying skills in: programming, networking; database design and development, systems analysis and design, and project management.

Specialisation Structure

Students must be enrolled in the Master of Information and Communications Technology (Advanced) to complete this specialisation.

Qualification for this award requires the successful completion of 200 credit points including the units listed below plus 120 hours (full time or part-time equivalent) of work experience component.

Core Units

300695.2	Network Technologies
301005.1	Professional Practice and Communication
301004.1	Research Preparation in Post Graduate Studies
300694.3	Advanced Topics in ICT
300693.3	Web Technologies
301046.1	Big Data (PG)
300260.2	IT Project Management
300597.3	Master Project 1
300598.4	Master Project 2

And students in Pathways A and B must also complete the additional three core units.

301038.2	Programming Proficiency
300977.2	Systems Analysis and Database Management Systems
301045.2	Advanced Topics in User System Interaction

Students must also enrol in the ICT Practicum unit to receive recognition for Work Integrated Learning.

301047.1	ICT Practicum
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And four units from Foundation, Specialised or Multi-disciplinary unit lists in addition to those completed for a Specialisation.

All students must also complete one of the listed Specialisations below. Note: Units for the Specialisations are all included in the Foundation, Specialised or Multi-disciplinary unit lists.

ST3007.1	Networking
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ST3033.1	Distributed Computing
ST3034.1	Management
ST3035.1	Web and Mobile Computing
ST3036.1	Health Informatics

Full Time - Start Year Intake

Year 1

Autumn session

301038.2	Programming Proficiency
300977.2	Systems Analysis and Database Management Systems
300695.2	Network Technologies
301005.1	Professional Practice and Communication

Spring session

301004.1	Research Preparation in Post Graduate Studies
300694.3	Advanced Topics in ICT
300693.3	Web Technologies

And one unit from Foundation, Specialised or Multi-disciplinary unit lists.

Year 2

Autumn session

301045.2	Advanced Topics in User System Interaction
301046.1	Big Data (PG)
300260.2	IT Project Management
300597.3	Master Project 1

Spring session

300598.4	Master Project 2
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And three units from Foundation, Specialised or Multi-disciplinary unit lists.

Year 3

Autumn session

Four units from Foundation, Specialised or Multi-disciplinary unit lists.

Full Time - Mid-Year Intake

Year 1

Spring session

301038.2	Programming Proficiency
300977.2	Systems Analysis and Database Management Systems
300695.2	Network Technologies
301005.1	Professional Practice and Communication

Autumn session

301004.1	Research Preparation in Post Graduate Studies
301045.2	Advanced Topics in User System Interaction
300694.3	Advanced Topics in ICT
300260.2	IT Project Management

Year 2**Spring session**

- 300693.3** Web Technologies
300597.3 Master Project 1

And two units from Foundation, Specialised or Multi-disciplinary unit lists.

Autumn session

- 301046.1** Big Data (PG)
300598.4 Master Project 2

And two units from Foundation, Specialised or Multi-disciplinary unit lists.

Year 3**Spring session**

Four units from Foundation, Specialised or Multi-disciplinary unit lists.

Foundation Units

Note: Units in this list may be included in the course structure as Core Units and cannot be selected as one of the list units.

- 301005.1** Professional Practice and Communication
301004.1 Research Preparation in Post Graduate Studies
301038.2 Programming Proficiency
301045.2 Advanced Topics in User System Interaction
300977.2 Systems Analysis and Database Management Systems
300695.2 Network Technologies
300693.3 Web Technologies
300260.2 IT Project Management
300697.2 Content Management Systems and Web Analytics
300696.2 Systems and Network Security

Specialised Units

Note: Units in this list may be included in the course structure as Core Units and cannot be selected as one of the list units.

- 301046.1** Big Data (PG)
301044.1 Data Science
301042.1 Cloud Computing
301043.2 Mobile Computing
300599.3 Advanced Robotics
301020.1 Advanced Mobile Robotics
301041.1 Service Oriented Architecture
300694.3 Advanced Topics in ICT
300255.2 Network Management
300252.3 Advanced Topics in Networking
300256.2 Multimedia Communication Systems
300389.2 Wireless Networking
300443.2 Web Engineering
300769.3 Intelligent Agents for E-Markets
300692.2 Workflow Management Systems
300770.3 Software Testing and Automation
301028.1 Advanced Healthcare Data Environments

- 301029.1** Advanced Healthcare Software and Systems

Multi-disciplinary Units

A maximum of four units are allowed from this list.

- 200820.2** The Contemporary Business Environment
200825.2 Understanding Contemporary Organisations
200821.2 Financial Reports for Decision Making
200826.1 Contemporary People Management
200841.2 Strategic Business Management
200848.2 Governance, Ethics and Social Entrepreneurship
200425.4 Economics

Postgraduate Admission Pathway - Master of Information and Communications Technology (Advanced) Pathway B - 2 years**A3001.1**

Students with Non-Computing/non-ICT/non-IS with Honours or Masters Qualifications must have an Honours or Masters qualification in any discipline.

Specialisation Structure

Students must be enrolled in the Master of Information and Communications Technology (Advanced) to complete this specialisation.

Qualification for this award requires the successful completion of 160 credit points including the units listed below plus 120 hours (full time or part-time equivalent) of work experience component.

Core Units

- 300695.2** Network Technologies
301005.1 Professional Practice and Communication
301004.1 Research Preparation in Post Graduate Studies
300694.3 Advanced Topics in ICT
300693.3 Web Technologies
301046.1 Big Data (PG)
300260.2 IT Project Management
300597.3 Master Project 1
300598.4 Master Project 2

And students in Pathways A and B must also complete the additional three core units.

- 301038.2** Programming Proficiency
300977.2 Systems Analysis and Database Management Systems
301045.2 Advanced Topics in User System Interaction

Students must enrol in the ICT Practicum unit to receive recognition for Work Integrated Learning.

- 301047.1** ICT Practicum

All students must also complete one of the listed Specialisations below. Note: Units for the Specialisations are all included in the Foundation, Specialised or Multi-disciplinary unit lists.

ST3007.1	Networking
ST3033.1	Distributed Computing
ST3034.1	Management
ST3035.1	Web and Mobile Computing
ST3036.1	Health Informatics

Full Time - Start Year Intake

Year 1

Autumn session

301038.2	Programming Proficiency
300977.2	Systems Analysis and Database Management Systems
300695.2	Network Technologies
301005.1	Professional Practice and Communication

Spring session

301004.1	Research Preparation in Post Graduate Studies
300694.3	Advanced Topics in ICT
300693.3	Web Technologies

And one unit from Foundation, Specialised or Multi-disciplinary unit lists.

Year 2

Autumn session

301045.2	Advanced Topics in User System Interaction
301046.1	Big Data (PG)
300260.2	IT Project Management
300597.3	Master Project 1

Spring session

300598.4	Master Project 2
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And three units from Foundation, Specialised or Multi-disciplinary unit lists.

Full Time - Mid-Year Intake

Year 1

Spring session

301038.2	Programming Proficiency
300977.2	Systems Analysis and Database Management Systems
300695.2	Network Technologies
301005.1	Professional Practice and Communication

Autumn session

301004.1	Research Preparation in Post Graduate Studies
301045.2	Advanced Topics in User System Interaction
300694.3	Advanced Topics in ICT
300260.2	IT Project Management

Year 2

Spring session

300693.3	Web Technologies
300597.3	Master Project 1

And two units from Foundation, Specialised or Multi-disciplinary unit lists.

Autumn session

301046.1	Big Data (PG)
300598.4	Master Project 2

And two units from Foundation, Specialised or Multi-disciplinary unit lists.

Foundation Units

Note: Units in this list may be included in the course structure as Core Units and cannot be selected as one of the list units.

301005.1	Professional Practice and Communication
301004.1	Research Preparation in Post Graduate Studies
301038.2	Programming Proficiency
301045.2	Advanced Topics in User System Interaction
300977.2	Systems Analysis and Database Management Systems
300695.2	Network Technologies
300693.3	Web Technologies
300260.2	IT Project Management
300697.2	Content Management Systems and Web Analytics
300696.2	Systems and Network Security

Specialised Units

Note: Units in this list may be included in the course structure as Core Units and cannot be selected as one of the list units.

301046.1	Big Data (PG)
301044.1	Data Science
301042.1	Cloud Computing
301043.2	Mobile Computing
300599.3	Advanced Robotics
301020.1	Advanced Mobile Robotics
301041.1	Service Oriented Architecture
300694.3	Advanced Topics in ICT
300255.2	Network Management
300252.3	Advanced Topics in Networking
300256.2	Multimedia Communication Systems
300389.2	Wireless Networking
300443.2	Web Engineering
300769.3	Intelligent Agents for E-Markets
300692.2	Workflow Management Systems
300770.3	Software Testing and Automation
301028.1	Advanced Healthcare Data Environments
301029.1	Advanced Healthcare Software and Systems

Multi-disciplinary Units

A maximum of four units are allowed from this list.

200820.2	The Contemporary Business Environment
200825.2	Understanding Contemporary Organisations
200821.2	Financial Reports for Decision Making
200826.1	Contemporary People Management
200841.2	Strategic Business Management

- 200848.2** Governance, Ethics and Social
Entrepreneurship
200425.4 Economics

Postgraduate Admission Pathway - Master of Information and Communications Technology (Advanced) Pathway C - 2 years

A3002.1

Students with Computing/ICT/IS Bachelor qualifications must have a minimum of three year undergraduate degree in Information and Communication Technologies, Computing or Information Systems disciplines; or a minimum of three year undergraduate degree in any discipline and a minimum of five years full-time equivalent work experience in Information and Communications Technologies which includes experience in applying skills in: programming, networking; database design and development, systems analysis and design, and project management; or a minimum of three year undergraduate degree in any discipline and graduate diploma in ICT or Postgraduate Diploma in ICT offered prior to 2015 at Western Sydney University or equivalent qualifications from any other reputable tertiary educational institute; or a minimum of three year undergraduate degree in any discipline and Graduate Diploma in ICT offered after 2015 at Western Sydney University or equivalent qualifications from any other reputable tertiary educational institute. Students with Computing/ICT/IS Honours or Masters qualifications must have an Honours or Masters qualification in Information and Communication Technologies, Computing or Information Systems disciplines

Specialisation Structure

Students must be enrolled in the Master of Information and Communications Technology (Advanced) to complete this specialisation.

Qualification for this award requires the successful completion of 160 credit points including the units listed below plus 120 hours (full time or part-time equivalent) of work experience component.

Core Units

- 300695.2** Network Technologies
300260.2 IT Project Management
301005.1 Professional Practice and Communication
301004.1 Research Preparation in Post Graduate Studies
300694.3 Advanced Topics in ICT
300693.3 Web Technologies
301046.1 Big Data (PG)
300597.3 Master Project 1
300598.4 Master Project 2

Students must enrol in the ICT Practicum unit to receive recognition for Work Integrated Learning.

- 301047.1** ICT Practicum

And two units from Foundation or Specialised unit lists in addition to those completed for a Specialisation.

And one unit from Foundation, Specialised or Multi-disciplinary unit lists in addition to those completed for a Specialisation.

All students must also complete one of the listed Specialisations below. Note: Units for the Specialisations are all included in the Foundation, Specialised or Multi-disciplinary unit lists.

- ST3007.1** Networking
ST3033.1 Distributed Computing
ST3034.1 Management
ST3035.1 Web and Mobile Computing
ST3036.1 Health Informatics

Full Time - Start Year Intake

Year 1

Autumn session

- 300695.2** Network Technologies
300260.2 IT Project Management
301005.1 Professional Practice and Communication

And one unit from Foundation units or Specialised unit lists.

Spring session

- 301004.1** Research Preparation in Post Graduate Studies
300694.3 Advanced Topics in ICT
300693.3 Web Technologies

And one unit from Foundation or Specialised unit lists.

Year 2

Autumn session

- 301046.1** Big Data (PG)
300597.3 Master Project 1

And two units from Foundation, Specialised or Multi-disciplinary unit lists.

Spring session

- 300598.4** Master Project 2

And three units from Foundation, Specialised or Multi-disciplinary unit lists.

Full Time - Mid-Year Intake

Year 1

Spring session

- 300693.3** Web Technologies
301005.1 Professional Practice and Communication
300695.2 Network Technologies

And one unit from Foundation or Specialised unit lists.

Autumn session

- 301004.1** Research Preparation in Post Graduate Studies
300694.3 Advanced Topics in ICT
300260.2 IT Project Management

And one unit from Foundation or Specialised unit lists.

Year 2

Spring session

- 301046.1** Big Data (PG)
300597.3 Master Project 1

And two units from Foundation, Specialised or Multi-disciplinary unit lists.

Autumn session

- 300598.4** Master Project 2

And three units from Foundation, Specialised or Multi-disciplinary unit lists.

Foundation Units

Note: Units in this list may be included in the course structure as Core Units and cannot be selected as one of the list units.

- 301005.1** Professional Practice and Communication
301004.1 Research Preparation in Post Graduate Studies
301038.2 Programming Proficiency
301045.2 Advanced Topics in User System Interaction
300977.2 Systems Analysis and Database Management Systems
300695.2 Network Technologies
300693.3 Web Technologies
300260.2 IT Project Management
300697.2 Content Management Systems and Web Analytics
300696.2 Systems and Network Security

Specialised Units

Note: Units in this list may be included in the course structure as Core Units and cannot be selected as one of the list units.

- 301046.1** Big Data (PG)
301044.1 Data Science
301042.1 Cloud Computing
301043.2 Mobile Computing
300599.3 Advanced Robotics
301020.1 Advanced Mobile Robotics
301041.1 Service Oriented Architecture
300694.3 Advanced Topics in ICT
300255.2 Network Management
300252.3 Advanced Topics in Networking
300256.2 Multimedia Communication Systems
300389.2 Wireless Networking
300443.2 Web Engineering
300769.3 Intelligent Agents for E-Markets
300692.2 Workflow Management Systems
300770.3 Software Testing and Automation
301028.1 Advanced Healthcare Data Environments
301029.1 Advanced Healthcare Software and Systems

Multi-disciplinary Units

A maximum of four units are allowed from this list.

- 200820.2** The Contemporary Business Environment
200825.2 Understanding Contemporary Organisations
200821.2 Financial Reports for Decision Making
200826.1 Contemporary People Management
200841.2 Strategic Business Management
200848.2 Governance, Ethics and Social Entrepreneurship
200425.4 Economics

Postgraduate Admission Pathway - Master of Information and Communications Technology Pathway A - 2 years

A3003.1

Students with non-Computing/non-ICT/non-IS with Bachelor qualifications must have a minimum of three year undergraduate degree in any discipline or Approved diploma course in ICT/Computing/IS fields and a minimum of five years full-time equivalent work experience in Information and Communications Technologies which includes experience in applying skills in: programming, networking; database design and development, systems analysis and design, and project management.

Location

Campus	Mode
Parramatta Campus	Internal

Specialisation Structure

Students must be enrolled in the Master of Information and Communications Technology to complete this specialisation.

Qualification for this award requires the successful completion of 160 credit points including the units listed below plus 120 hours (full time or part-time equivalent) of work experience component.

Core Units

- 300695.2** Network Technologies
301005.1 Professional Practice and Communication
301004.1 Research Preparation in Post Graduate Studies
300260.2 IT Project Management
300597.3 Master Project 1

And students in Pathways A and B must also complete the additional three core units.

- 301038.2** Programming Proficiency
300977.2 Systems Analysis and Database Management Systems
301045.2 Advanced Topics in User System Interaction

Students must enrol in the ICT Practicum unit to receive recognition for Work Integrated Learning.

- 301047.1** ICT Practicum

And four units from Foundation, Specialised or Multi-disciplinary unit lists in addition to those completed for a Specialisation.

All students may also complete one of the listed Specialisations below. Note: Units for the Specialisations are all included in the Foundation, Specialised or Multi-disciplinary unit lists.

ST3007.1	Networking
ST3033.1	Distributed Computing
ST3034.1	Management
ST3035.1	Web and Mobile Computing
ST3036.1	Health Informatics

Full Time - Start Year Intake

Year 1

Autumn session

301038.2	Programming Proficiency
300977.2	Systems Analysis and Database Management Systems
300695.2	Network Technologies
301005.1	Professional Practice and Communication

Spring session

301004.1	Research Preparation in Post Graduate Studies
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And three units from Foundation, Specialised or Multi-disciplinary unit lists.

Year 2

Autumn session

301045.2	Advanced Topics in User System Interaction
300260.2	IT Project Management
300597.3	Master Project 1

And one unit from Foundation, Specialised or Multi-disciplinary unit lists.

Spring session

And four units from Foundation, Specialised or Multi-disciplinary unit lists.

Full Time - Mid-Year Intake

Year 1

Spring session

301038.2	Programming Proficiency
300977.2	Systems Analysis and Database Management Systems
300695.2	Network Technologies
301005.1	Professional Practice and Communication

Autumn session

301004.1	Research Preparation in Post Graduate Studies
301045.2	Advanced Topics in User System Interaction
300260.2	IT Project Management

And one unit from Foundation, Specialised or Multi-disciplinary unit lists.

Year 2

Spring session

300597.3	Master Project 1
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And three units from Foundation, Specialised or Multi-disciplinary unit lists.

Autumn session

And four units from Foundation, Specialised or Multi-disciplinary unit lists.

Foundation Units

Note: Units in this list may be included in the course structure as Core Units and cannot be selected as one of the list units.

301005.1	Professional Practice and Communication
301004.1	Research Preparation in Post Graduate Studies
301038.2	Programming Proficiency
301045.2	Advanced Topics in User System Interaction
300977.2	Systems Analysis and Database Management Systems
300695.2	Network Technologies
300693.3	Web Technologies
300260.2	IT Project Management
300697.2	Content Management Systems and Web Analytics
300696.2	Systems and Network Security

Specialised Units

301046.1	Big Data (PG)
301044.1	Data Science
301042.1	Cloud Computing
301043.2	Mobile Computing
300599.3	Advanced Robotics
301020.1	Advanced Mobile Robotics
301041.1	Service Oriented Architecture
300694.3	Advanced Topics in ICT
300255.2	Network Management
300252.3	Advanced Topics in Networking
300256.2	Multimedia Communication Systems
300389.2	Wireless Networking
300443.2	Web Engineering
300769.3	Intelligent Agents for E-Markets
300692.2	Workflow Management Systems
300770.3	Software Testing and Automation
301028.1	Advanced Healthcare Data Environments
301029.1	Advanced Healthcare Software and Systems

Multi-disciplinary Units

A maximum of four units are allowed from this list.

200820.2	The Contemporary Business Environment
200825.2	Understanding Contemporary Organisations
200821.2	Financial Reports for Decision Making
200826.1	Contemporary People Management
200841.2	Strategic Business Management
200848.2	Governance, Ethics and Social Entrepreneurship
200425.4	Economics

Postgraduate Admission Pathway - Master of Information and Communications Technology Pathway B - 1.5 years

A3004.1

Students with Non-Computing Computing/non-ICT/non-IS Honours or Masters qualifications must have an Honours or Masters qualification in any discipline.

Specialisation Structure

Students must be enrolled in the Master of Information and Communications Technology to complete this specialisation.

Qualification for this award requires the successful completion of 120 credit points including the units listed below plus 120 hours (full time or part-time equivalent) of work experience component.

Core Units

300695.2	Network Technologies
301005.1	Professional Practice and Communication
301004.1	Research Preparation in Post Graduate Studies
300260.2	IT Project Management
300597.3	Master Project 1

And students in Pathways A and B must also complete the additional three core units.

301038.2	Programming Proficiency
300977.2	Systems Analysis and Database Management Systems
301045.2	Advanced Topics in User System Interaction

Students must enrol in the ICT Practicum unit to receive recognition for Work Integrated Learning.

301047.1	ICT Practicum
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All students may also complete one of the listed Specialisations below. Note: Units for the Specialisations are all included in the Foundation, Specialised or Multi-disciplinary unit lists.

ST3007.1	Networking
ST3033.1	Distributed Computing
ST3034.1	Management
ST3035.1	Web and Mobile Computing
ST3036.1	Health Informatics

Full Time - Start Year Intake

Year 1

Autumn session

301038.2	Programming Proficiency
300977.2	Systems Analysis and Database Management Systems
300695.2	Network Technologies
301005.1	Professional Practice and Communication

Spring session

301004.1	Research Preparation in Post Graduate Studies
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And three units from Foundation, Specialised or Multi-disciplinary unit lists.

Year 2

Autumn session

301045.2	Advanced Topics in User System Interaction
300260.2	IT Project Management
300597.3	Master Project 1

And one unit from Foundation, Specialised or Multi-disciplinary unit lists.

Full Time - Mid-Year Intake

Year 1

Spring session

301038.2	Programming Proficiency
300977.2	Systems Analysis and Database Management Systems
300695.2	Network Technologies
301005.1	Professional Practice and Communication

Autumn session

301004.1	Research Preparation in Post Graduate Studies
301045.2	Advanced Topics in User System Interaction
300260.2	IT Project Management

And one unit from Foundation, Specialised or Multi-disciplinary unit lists.

Year 2

Spring session

300597.3	Master Project 1
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And three units from Foundation, Specialised or Multi-disciplinary unit lists.

Foundation Units

Note: Units in this list may be included in the course structure as Core Units and cannot be selected as one of the list units.

301005.1	Professional Practice and Communication
301004.1	Research Preparation in Post Graduate Studies
301038.2	Programming Proficiency
301045.2	Advanced Topics in User System Interaction
300977.2	Systems Analysis and Database Management Systems
300695.2	Network Technologies
300693.3	Web Technologies
300260.2	IT Project Management
300697.2	Content Management Systems and Web Analytics
300696.2	Systems and Network Security

Specialised Units

301046.1	Big Data (PG)
301044.1	Data Science
301042.1	Cloud Computing
301043.2	Mobile Computing
300599.3	Advanced Robotics
301020.1	Advanced Mobile Robotics
301041.1	Service Oriented Architecture
300694.3	Advanced Topics in ICT
300255.2	Network Management
300252.3	Advanced Topics in Networking
300256.2	Multimedia Communication Systems
300389.2	Wireless Networking
300443.2	Web Engineering
300769.3	Intelligent Agents for E-Markets
300692.2	Workflow Management Systems
300770.3	Software Testing and Automation
301028.1	Advanced Healthcare Data Environments
301029.1	Advanced Healthcare Software and Systems

Multi-disciplinary Units

A maximum of four units are allowed from this list.

200820.2	The Contemporary Business Environment
200825.2	Understanding Contemporary Organisations
200821.2	Financial Reports for Decision Making
200826.1	Contemporary People Management
200841.2	Strategic Business Management
200848.2	Governance, Ethics and Social Entrepreneurship
200425.4	Economics

Postgraduate Admission Pathway - Master of Information and Communications Technology Pathway C - 1.5 years

A3005.1

Students with Computing/ICT/IS Bachelor qualifications must have a minimum of three year undergraduate degree in Information and Communication Technologies, Computing or Information Systems disciplines; or a minimum of three year undergraduate degree in any discipline and a minimum of five years full-time equivalent work experience in Information and Communications Technologies which includes experience in applying skills in: programming, networking; database design and development, systems analysis and design, and project management; or a minimum of three year undergraduate degree in any discipline and graduate diploma in ICT or Postgraduate Diploma in ICT offered prior to 2015 at Western Sydney University or equivalent qualifications from any other reputable tertiary educational institute; or a minimum of three year undergraduate degree in any discipline and Graduate Diploma in ICT offered after 2015 at Western Sydney University or equivalent qualifications from any other reputable tertiary educational institute. Students with Computing/ICT/IS Honours or Masters qualifications must have an Honours or Masters qualification in Information and Communication

Technologies, Computing or Information Systems disciplines.

Specialisation Structure

Students must be enrolled in the Master of Information and Communications Technology to complete this specialisation.

Qualification for this award requires the successful completion of 120 credit points including the units listed below plus 120 hours (full time or part-time equivalent) of work experience component.

Core Units

300695.2	Network Technologies
300260.2	IT Project Management
301005.1	Professional Practice and Communication
301004.1	Research Preparation in Post Graduate Studies
300597.3	Master Project 1

Students must enrol in the ICT Practicum unit to receive recognition for Work Integrated Learning.

301047.1	ICT Practicum
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And one unit from Foundation or Specialised unit lists in addition to those completed for a Specialisation.

And two units from Foundation, Specialised or Multi-disciplinary unit lists in addition to those completed for a Specialisation.

All students may also complete one of the listed Specialisations below. Note: Units for the Specialisations are all included in the Foundation, Specialised or Multi-disciplinary unit lists.

ST3007.1	Networking
ST3033.1	Distributed Computing
ST3034.1	Management
ST3035.1	Web and Mobile Computing
ST3036.1	Health Informatics

Full Time - Start Year Intake

Year 1

Autumn session

300695.2	Network Technologies
300260.2	IT Project Management
301005.1	Professional Practice and Communication

And one unit from Foundation or Specialised unit lists.

Spring session

301004.1	Research Preparation in Post Graduate Studies
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And three units from Foundation, Specialised or Multi-disciplinary unit lists.

Year 2

Autumn session

300597.3	Master Project 1
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And three units from Foundation, Specialised or Multi-disciplinary unit lists.

Full Time - Mid-Year Intake

Year 1

Spring session

- 300695.2** Network Technologies
301005.1 Professional Practice and Communication

And two units from Foundation or Specialised unit lists.

Autumn session

- 301004.1** Research Preparation in Post Graduate Studies
300260.2 IT Project Management

And two units from Foundation, Specialised or Multi-disciplinary unit lists.

Year 2

Spring session

- 300597.3** Master Project 1

And three units from Foundation, Specialised or Multi-disciplinary unit lists.

Foundation Units

Note: Units in this list may be included in the course structure as Core Units and cannot be selected as one of the list units.

- 301005.1** Professional Practice and Communication
301004.1 Research Preparation in Post Graduate Studies
301038.2 Programming Proficiency
301045.2 Advanced Topics in User System Interaction
300977.2 Systems Analysis and Database Management Systems
300695.2 Network Technologies
300693.3 Web Technologies
300260.2 IT Project Management
300697.2 Content Management Systems and Web Analytics
300696.2 Systems and Network Security

Specialised Units

- 301046.1** Big Data (PG)
301044.1 Data Science
301042.1 Cloud Computing
301043.2 Mobile Computing
300599.3 Advanced Robotics
301020.1 Advanced Mobile Robotics
301041.1 Service Oriented Architecture
300694.3 Advanced Topics in ICT
300255.2 Network Management
300252.3 Advanced Topics in Networking
300256.2 Multimedia Communication Systems
300389.2 Wireless Networking
300443.2 Web Engineering
300769.3 Intelligent Agents for E-Markets
300692.2 Workflow Management Systems

- 300770.3** Software Testing and Automation
301028.1 Advanced Healthcare Data Environments
301029.1 Advanced Healthcare Software and Systems

Multi-disciplinary Units

A maximum of four units are allowed from this list.

- 200820.2** The Contemporary Business Environment
200825.2 Understanding Contemporary Organisations
200821.2 Financial Reports for Decision Making
200826.1 Contemporary People Management
200841.2 Strategic Business Management
200848.2 Governance, Ethics and Social Entrepreneurship
200425.4 Economics

Postgraduate Admission Pathway - Graduate Diploma in Information and Communications Technology Pathway A - 1.5 years

A3006.1

Students with non-Computing/non-ICT/non-IS Bachelor qualifications must have a minimum of three year undergraduate degree in any discipline or Approved diploma course in ICT/Computing/IS fields and a minimum of five years full-time equivalent work experience in Information and Communications Technologies which includes experience in applying skills in: programming, networking; database design and development, systems analysis and design, and project management.

Location

Campus	Mode
Parramatta Campus	Internal

Specialisation Structure

Students must be enrolled in the Graduate Diploma in Information and Communications Technology to complete this specialisation.

Qualification for this award requires the successful completion of 120 credit points.

Core Units

- 300260.2** IT Project Management
300695.2 Network Technologies
301005.1 Professional Practice and Communication

And students in Pathways A and B must also complete the additional three core units.

- 301038.2** Programming Proficiency
300977.2 Systems Analysis and Database Management Systems
301045.2 Advanced Topics in User System Interaction

And six units from Foundation or Specialised unit lists.

Full Time - Start Year Intake**Year 1****Autumn session**

301038.2	Programming Proficiency
300977.2	Systems Analysis and Database Management Systems
301045.2	Advanced Topics in User System Interaction
300260.2	IT Project Management

Spring session

300695.2	Network Technologies
301005.1	Professional Practice and Communication

And two units from Foundation or Specialised unit lists.

Year 2**Autumn session**

And four units from Foundation or Specialised unit lists.

Full Time - Mid-Year Intake**Year 1****Spring session**

301038.2	Programming Proficiency
300977.2	Systems Analysis and Database Management Systems
300695.2	Network Technologies
301005.1	Professional Practice and Communication

Autumn session

301045.2	Advanced Topics in User System Interaction
300260.1	IT Project Management

And two units from Foundation or Specialised unit lists.

Year 2**Spring session**

And four units from Foundation or Specialised unit lists.

Foundation Units

Note: Units in this list may be included in the course structure as Core Units and cannot be selected as one of the list units.

301005.1	Professional Practice and Communication
301004.1	Research Preparation in Post Graduate Studies
301038.2	Programming Proficiency
301045.2	Advanced Topics in User System Interaction
300977.2	Systems Analysis and Database Management Systems
300695.2	Network Technologies
300693.3	Web Technologies
300260.2	IT Project Management
300697.2	Content Management Systems and Web Analytics
300696.2	Systems and Network Security

Specialised Units

301046.1	Big Data (PG)
301044.1	Data Science
301042.1	Cloud Computing
301043.2	Mobile Computing
300599.3	Advanced Robotics
301020.1	Advanced Mobile Robotics
301041.1	Service Oriented Architecture
300694.3	Advanced Topics in ICT
300255.2	Network Management
300252.3	Advanced Topics in Networking
300256.2	Multimedia Communication Systems
300389.2	Wireless Networking
300443.2	Web Engineering
300769.3	Intelligent Agents for E-Markets
300692.2	Workflow Management Systems
300770.3	Software Testing and Automation
301028.1	Advanced Healthcare Data Environments
301029.1	Advanced Healthcare Software and Systems

Postgraduate Admission Pathway - Graduate Diploma in Information and Communications Technology Pathway B - 1 year**A3007.1**

Students with Non-Computing Computing/non-ICT/non-IS Honours or Masters qualifications must have an Honours or Masters qualification in any discipline.

Location

Campus	Mode
Parramatta Campus	Internal

Specialisation Structure

Students must be enrolled in the Graduate Diploma in Information and Communications Technology to complete this specialisation.

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

Core Units

300260.2	IT Project Management
300695.2	Network Technologies
301005.1	Professional Practice and Communication

And students in Pathways A and B must also complete the additional three core units.

301038.2	Programming Proficiency
300977.2	Systems Analysis and Database Management Systems
301045.2	Advanced Topics in User System Interaction

And two units from Foundation or Specialised unit lists.

Full Time - Start Year Intake**Year 1****Autumn session**

301038.2	Programming Proficiency
300977.2	Systems Analysis and Database Management Systems
301045.2	Advanced Topics in User System Interaction
300260.2	IT Project Management

Spring session

300695.2	Network Technologies
301005.1	Professional Practice and Communication

And two units from Foundation or Specialised unit lists.

Full Time - Mid-Year Intake**Year 1****Spring session**

301038.2	Programming Proficiency
300977.2	Systems Analysis and Database Management Systems
300695.2	Network Technologies
301005.1	Professional Practice and Communication

Autumn session

301045.2	Advanced Topics in User System Interaction
300260.1	IT Project Management

And two units from Foundation or Specialised unit lists.

Foundation Units

Note: Units in this list may be included in the course structure as Core Units and cannot be selected as one of the list units.

301005.1	Professional Practice and Communication
301004.1	Research Preparation in Post Graduate Studies
301038.2	Programming Proficiency
301045.2	Advanced Topics in User System Interaction
300977.2	Systems Analysis and Database Management Systems
300695.2	Network Technologies
300693.3	Web Technologies
300260.2	IT Project Management
300697.2	Content Management Systems and Web Analytics
300696.2	Systems and Network Security

Specialised Units

301046.1	Big Data (PG)
301044.1	Data Science
301042.1	Cloud Computing
301043.2	Mobile Computing
300599.3	Advanced Robotics
301020.1	Advanced Mobile Robotics
301041.1	Service Oriented Architecture

300694.3	Advanced Topics in ICT
300255.2	Network Management
300252.3	Advanced Topics in Networking
300256.2	Multimedia Communication Systems
300389.2	Wireless Networking
300443.2	Web Engineering
300769.3	Intelligent Agents for E-Markets
300692.2	Workflow Management Systems
300770.3	Software Testing and Automation
301028.1	Advanced Healthcare Data Environments
301029.1	Advanced Healthcare Software and Systems

Postgraduate Admission Pathway - Graduate Diploma in Information and Communications Technology Pathway C - 1 year**A3008.1**

Students with Computing/ICT/IS Bachelor qualifications must have a minimum of three year undergraduate degree in Information and Communication Technologies, Computing or Information Systems disciplines; or a minimum of three year undergraduate degree in any discipline and a minimum of five years full-time equivalent work experience in Information and Communications Technologies which includes experience in applying skills in: programming, networking; database design and development, systems analysis and design, and project management; or a minimum of three year undergraduate degree in any discipline and graduate diploma in ICT or Postgraduate Diploma in ICT offered prior to 2015 at Western Sydney University or equivalent qualifications from any other reputable tertiary educational institute; or a minimum of three year undergraduate degree in any discipline and Graduate Diploma in ICT offered after 2015 at Western Sydney University or equivalent qualifications from any other reputable tertiary educational institute. Students with Computing/ICT/IS Honours or Masters qualifications must have an Honours or Masters qualification in Information and Communication Technologies, Computing or Information Systems disciplines.

Location

Campus	Mode
Parramatta Campus	Internal

Specialisation Structure

Students must be enrolled in the Graduate Diploma in Information and Communications Technology to complete this specialisation.

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

Core Units

300695.2	Network Technologies
300260.2	IT Project Management
301005.1	Professional Practice and Communication

And five units from Foundation or Specialised units lists.

Full Time - Start Year Intake**Year 1****Autumn session**

300695.2	Network Technologies
300260.2	IT Project Management
301005.1	Professional Practice and Communication

And one unit from Foundation or Specialised units listed below.

Spring session

Four units from Foundation or Specialised units listed below.

Full Time - Mid-Year Intake**Year 1****Spring session**

300695.2	Network Technologies
301005.1	Professional Practice and Communication
300260.1	IT Project Management

And one unit from Foundation or Specialised units listed below.

Autumn session

Four units from Foundation or Specialised units listed below.

Foundation Units

Note: Units in this list may be included in the course structure as Core Units and cannot be selected as one of the list units.

301005.1	Professional Practice and Communication
301004.1	Research Preparation in Post Graduate Studies
301038.2	Programming Proficiency
301045.2	Advanced Topics in User System Interaction
300977.2	Systems Analysis and Database Management Systems
300695.2	Network Technologies
300693.3	Web Technologies
300260.2	IT Project Management
300697.2	Content Management Systems and Web Analytics
300696.2	Systems and Network Security

Specialised Units

301046.1	Big Data (PG)
301044.1	Data Science
301042.1	Cloud Computing
301043.2	Mobile Computing
300599.3	Advanced Robotics
301020.1	Advanced Mobile Robotics
301041.1	Service Oriented Architecture
300694.3	Advanced Topics in ICT
300255.2	Network Management
300252.3	Advanced Topics in Networking
300256.2	Multimedia Communication Systems
300389.2	Wireless Networking
300443.2	Web Engineering

300769.3	Intelligent Agents for E-Markets
300692.2	Workflow Management Systems
300770.3	Software Testing and Automation
301028.1	Advanced Healthcare Data Environments
301029.1	Advanced Healthcare Software and Systems

Postgraduate Admission Pathway - Graduate Certificate in Information and Communications Technology Pathway A - 1 year**A3009.1**

Students with non-Computing/non-ICT/non-IS Bachelor qualifications must have a minimum of three year undergraduate degree in any discipline or Approved diploma course in ICT/Computing/IS fields and a minimum of five years full-time equivalent work experience in Information and Communications Technologies which includes experience in applying skills in: programming, networking; database design and development, systems analysis and design, and project management.

Location

Campus	Mode
Parramatta Campus	Internal

Specialisation Structure

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

Students must be enrolled in the Graduate Certificate in Information and Communications Technology to complete this specialisation.

Core Unit

301005.1	Professional Practice and Communication
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And students in Pathways A and B must also complete the additional two core units.

301038.2	Programming Proficiency
300977.2	Systems Analysis and Database Management Systems

And five units from Foundation unit list.

Full Time - Start Year Intake**Year 1****Autumn session**

301038.2	Programming Proficiency
300977.2	Systems Analysis and Database Management Systems
301005.1	Professional Practice and Communication

And one unit from Foundation unit list.

Spring session

Four units from Foundation unit list.

Full Time - Mid-Year Intake**Year 1****Spring session**

- 301038.2** Programming Proficiency
300977.2 Systems Analysis and Database
 Management Systems
301005.1 Professional Practice and Communication

And one unit from Foundation unit list.

Autumn session

Four units from Foundation unit list.

Foundation Units

Note: Units in this list may be included in the course structure as Core Units and cannot be selected as one of the list units.

- 301005.1** Professional Practice and Communication
301004.1 Research Preparation in Post Graduate Studies
301038.2 Programming Proficiency
301045.2 Advanced Topics in User System Interaction
300977.2 Systems Analysis and Database
 Management Systems
300695.2 Network Technologies
300693.3 Web Technologies
300260.2 IT Project Management
300697.2 Content Management Systems and Web Analytics
300696.2 Systems and Network Security

Postgraduate Admission Pathway - Graduate Certificate in Information and Communications Technology Pathway B - 0.5 year

A3010.1

Students with Non-Computing Computing/non-ICT/non-IS Honours or Masters qualifications must have an Honours or Masters qualification in any discipline.

Location

Campus	Mode
Parramatta Campus	Internal

Specialisation Structure

Qualification for this award requires the successful completion of 40 credit points.

Students must be enrolled in the Graduate Certificate in Information and Communications Technology to complete this specialisation.

Core Unit

- 301005.1** Professional Practice and Communication

And students in Pathways A and B must also complete the additional two core units.

- 301038.2** Programming Proficiency
300977.2 Systems Analysis and Database
 Management Systems

One unit from Foundation unit list.

Full Time - Start Year Intake**Year 1****Autumn session**

- 301038.2** Programming Proficiency
300977.2 Systems Analysis and Database
 Management Systems
301005.1 Professional Practice and Communication

And one unit from Foundation unit list.

Full Time - Mid-Year Intake**Year 1****Spring session**

- 301038.2** Programming Proficiency
300977.2 Systems Analysis and Database
 Management Systems
301005.1 Professional Practice and Communication

And one unit from Foundation unit list.

Foundation Units

Note: Units in this list may be included in the course structure as Core Units and cannot be selected as one of the list units.

- 301005.1** Professional Practice and Communication
301004.1 Research Preparation in Post Graduate Studies
301038.2 Programming Proficiency
301045.2 Advanced Topics in User System Interaction
300977.2 Systems Analysis and Database
 Management Systems
300695.2 Network Technologies
300693.3 Web Technologies
300260.2 IT Project Management
300697.2 Content Management Systems and Web Analytics
300696.2 Systems and Network Security

Postgraduate Admission Pathway - Graduate Certificate in Information and Communications Technology Pathway C - 0.5 year

A3011.1

Students with Computing/ICT/IS Bachelor qualifications must have a minimum of three year undergraduate degree in Information and Communication Technologies, Computing or Information Systems disciplines; or a

minimum of three year undergraduate degree in any discipline and a minimum of five years full-time equivalent work experience in Information and Communications Technologies which includes experience in applying skills in: programming, networking; database design and development, systems analysis and design, and project management; or a minimum of three year undergraduate degree in any discipline and graduate diploma in ICT or Postgraduate Diploma in ICT offered prior to 2015 at Western Sydney University or equivalent qualifications from any other reputable tertiary educational institute; or a minimum of three year undergraduate degree in any discipline and Graduate Diploma in ICT offered after 2015 at Western Sydney University or equivalent qualifications from any other reputable tertiary educational institute. Students with Computing/ICT/IS Honours or Masters qualifications must have an Honours or Masters qualification in Information and Communication Technologies, Computing or Information Systems disciplines.

Location

Campus	Mode
Parramatta Campus	Internal

Specialisation Structure

Students must be enrolled in the Graduate Certificate in Information and Communications Technology to complete this specialisation.

Qualification for this award requires the successful completion of 40 credit points.

Core Unit

301005.1 Professional Practice and Communication

And three units from Foundation unit list.

Full Time - Start Year Intake

Year 1

Autumn session

301005.1 Professional Practice and Communication

And three units from Foundation unit list.

Full Time - Mid-Year Intake

Year 1

Spring session

301005.1 Professional Practice and Communication

And three units from Foundation unit list.

Foundation Units

Note: Units in this list may be included in the course structure as Core Units and cannot be selected as one of the list units.

301005.1 Professional Practice and Communication

301004.1	Research Preparation in Post Graduate Studies
301038.2	Programming Proficiency
301045.2	Advanced Topics in User System Interaction
300977.2	Systems Analysis and Database Management Systems
300695.2	Network Technologies
300693.3	Web Technologies
300260.2	IT Project Management
300697.2	Content Management Systems and Web Analytics
300696.2	Systems and Network Security

Postgraduate Specialisation - Networking

ST3007.1

The Networking specialisation is aimed at providing students with knowledge in emerging areas of networking. It focuses on essential fundamentals as well as advanced knowledge on the principles, practices, protocols and standards in some key areas of the networking discipline. This specialisation prepares students for careers in network security and management, multimedia and wireless communications, and other contemporary and emerging networking areas. The specialisation is also designed to introduce students to trends and key research areas in some emerging fields in networking so as to provide students with initial skills and knowledge for future research studies or careers.

Specialisation Structure

Students must complete four units from the following:

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

Postgraduate Specialisation - Civil

ST3027.1

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Students who wish to graduate with a Civil specialisation must complete the eight core units and five specialist units from the list below.

Core units

301002.1	Specialised Software Applications
300597.3	Master Project 1
300598.4	Master Project 2
301003.1	Sustainable Systems

301004.1	Research Preparation in Post Graduate Studies
301005.1	Professional Practice and Communication
301006.1	Advanced Engineering Project 1
301007.1	Advanced Engineering Project 2

Civil Specialised Alternate units

Specialist alternate unit offerings are subject to sufficient student demand and may not be offered annually.

Choose five specialised alternates from the list below.

301024.1	Advanced Numerical Methods in Engineering
300594.4	Advanced Structural Analysis
300595.3	Advanced Water Engineering
300604.3	Advanced Geotechnical Engineering
300939.2	Sustainability and Risk Engineering (PG)
301008.1	Advanced Composite Structures
301009.1	Advanced Timber Structures
301010.1	Advanced Applied Mechanics
301011.1	Advanced Highway Infrastructure
301012.1	Water Resources Systems Analysis
301013.1	Advanced Statistical Hydrology
301014.1	Advanced Hydrogeology
301015.1	Deep Foundations
301016.1	Advanced Water and Wastewater Treatment
301017.1	Advanced Waste Management

Postgraduate Specialisation - Electrical

ST3028.1

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

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

Core units

301002.1	Specialised Software Applications
300597.3	Master Project 1
300598.4	Master Project 2
301003.1	Sustainable Systems
301004.1	Research Preparation in Post Graduate Studies
301005.1	Professional Practice and Communication
301006.1	Advanced Engineering Project 1
301007.1	Advanced Engineering Project 2

Electrical Specialised Alternate units

Specialist alternate unit offerings are subject to sufficient student demand and may not be offered annually.

Choose five specialised alternates from the list below.

300196.3	Personal Communication Systems
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300197.3	Power System Planning and Economics
301025.1	Advanced Power Quality
301026.1	Advanced Smart Grids and Distributed Generation
300515.3	Instrumentation and Measurement (PG)
300601.3	Advanced Electrical Machines and Drives
300596.3	Advanced Signal Processing
300603.3	Advanced Control Systems

Postgraduate Specialisation - Environmental

ST3029.1

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

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

Core units

301002.1	Specialised Software Applications
300597.3	Master Project 1
300598.4	Master Project 2
301003.1	Sustainable Systems
301004.1	Research Preparation in Post Graduate Studies
301005.1	Professional Practice and Communication
301006.1	Advanced Engineering Project 1
301007.1	Advanced Engineering Project 2

Environmental Specialised Alternate units

Specialist alternate unit offerings are subject to sufficient student demand and may not be offered annually.

Choose five specialised alternates from the list below.

301017.1	Advanced Waste Management
301016.1	Advanced Water and Wastewater Treatment
300939.2	Sustainability and Risk Engineering (PG)
101634.2	Planning and Environmental Regulation
300677.2	Safety and Risk Management
200458.3	Building in Bushfire Prone Areas

Postgraduate Specialisation - Mechanical

ST3030.1

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Students who wish to graduate with a Mechanical specialisation must complete the eight core units and five specialist units from the list below.

Core units

301002.1	Specialised Software Applications
300597.3	Master Project 1
300598.4	Master Project 2
301003.1	Sustainable Systems
301004.1	Research Preparation in Post Graduate Studies
301005.1	Professional Practice and Communication
301006.1	Advanced Engineering Project 1
301007.1	Advanced Engineering Project 2

Mechanical Specialised Alternate units

Specialist alternate unit offerings are subject to sufficient student demand and may not be offered annually.

Choose five specialised alternates from the list below.

301018.1	Mechanical System Design
300599.3	Advanced Robotics
301019.1	Advanced Dynamic Systems
300600.3	Mechatronic System Design
301021.1	Advanced Thermal and Fluid Engineering
301022.1	Advanced Computer Aided Engineering
301023.1	Advanced Computational Fluid Dynamics
301024.1	Advanced Numerical Methods in Engineering

Postgraduate Specialisation - Mechatronic

ST3031.1

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

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

Core units

301002.1	Specialised Software Applications
300597.3	Master Project 1
300598.4	Master Project 2
301003.1	Sustainable Systems
301004.1	Research Preparation in Post Graduate Studies
301005.1	Professional Practice and Communication
301006.1	Advanced Engineering Project 1
301007.1	Advanced Engineering Project 2

Mechatronic Specialised Alternate units

Specialist alternate unit offerings are subject to sufficient student demand and may not be offered annually.

Choose five specialised alternates from the list below.

301018.1	Mechanical System Design
300599.3	Advanced Robotics
301019.1	Advanced Dynamic Systems
300600.3	Mechatronic System Design
301020.1	Advanced Mobile Robotics
300601.3	Advanced Electrical Machines and Drives
300603.3	Advanced Control Systems

Postgraduate Specialisation - Telecommunication

ST3032.1

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

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

Core units

301002.1	Specialised Software Applications
300597.3	Master Project 1
300598.4	Master Project 2
301003.1	Sustainable Systems
301004.1	Research Preparation in Post Graduate Studies
301005.1	Professional Practice and Communication
301006.1	Advanced Engineering Project 1
301007.1	Advanced Engineering Project 2

Telecommunication Specialised Alternate units

Specialist alternate unit offerings are subject to sufficient student demand and may not be offered annually.

Choose five specialised alternates from the list below.

300196.3	Personal Communication Systems
300255.2	Network Management
300256.2	Multimedia Communication Systems
300389.2	Wireless Networking
300515.3	Instrumentation and Measurement (PG)
300596.3	Advanced Signal Processing
300173.3	Advanced Data Networks

Postgraduate Specialisation - Distributed Computing

ST3033.1

The Distributed Computing Specialisation provides the students with in-depth knowledge for the analysis, design, and evaluation of distributed systems. It offers the students the opportunity to develop the research and technical skills needed for development and management of a broad range of large-scale systems including distributed systems, Cloud computing and Big Data applications.

Location

Campus	Mode
Parramatta Campus	Internal

Specialisation Structure

Students must complete the following four units

301042.1	Cloud Computing
301046.1	Big Data (PG)
301041.1	Service Oriented Architecture
300696.2	Systems and Network Security

Postgraduate Specialisation - Management

ST3034.1

Management specialisation, in Master of Information and Communication Technology and Master of Information and Communication Technology - Advanced courses, brings the key areas of contemporary management practices into the ICT discipline. The aim of the specialisation is to prepare students to move from technical positions such as programmer, network administrators and business analyst into a supervisory, senior management, executive or CIO role within the IT industry. In this specialisation emphasis will be placed in topics such as strategic management, understanding contemporary business environment, financial reporting, economics, and people and organisation management.

Location

Campus	Mode
Parramatta Campus	Internal

Specialisation Structure

Students must complete

200820.2	The Contemporary Business Environment
200821.2	Financial Reports for Decision Making
200825.2	Understanding Contemporary Organisations

And one unit from the following

200826.1	Contemporary People Management
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200848.2	Governance, Ethics and Social Entrepreneurship
200425.4	Economics
200841.2	Strategic Business Management

Postgraduate Specialisation - Web and Mobile Computing

ST3035.1

The widespread deployment of web and mobile devices has made them a target of choice for companies to carry out their everyday business. The contemporary developers are expected to understand the strengths and limitations of web and mobile technologies and fit these to create successful user-friendly web and/or mobile applications. This specialisation is aimed at developing knowledge and skills in theoretical concepts and practical technologies needed to design and develop complex software applications across a range of web and mobile platforms. Students with these knowledge and skills will have greater prospects of finding employment with reputable companies or building their career as self-employed developers.

Location

Campus	Mode
Parramatta Campus	Internal

Specialisation Structure

Students must complete the following four units

300443.2	Web Engineering
301043.2	Mobile Computing
301045.2	Advanced Topics in User System Interaction
300389.2	Wireless Networking

Postgraduate Specialisation - Health Informatics

ST3036.1

The widespread adoption of ICT solutions within the health sector and related developments such as electronic health records and health systems interoperability have created a need for ICT professionals who understand their context and are well equipped to operate within it. This specialisation is aimed at developing knowledge and skills in theoretical concepts and practical technologies needed to design and develop complex software applications across a range of eHealth settings. Students with these knowledge and skills will have greater prospects of finding employment with major healthcare providers or building their career as self-employed developers.

Location

Campus	Mode
Parramatta Campus	Internal

Specialisation Structure

Students must complete four units

- 301028.1** Advanced Healthcare Data Environments
- 301029.1** Advanced Healthcare Software and Systems

Choose one of

- 300977.2** Systems Analysis and Database
Management Systems
- 300696.2** Systems and Network Security

Choose one of

- 300692.2** Workflow Management Systems
- 300770.3** Software Testing and Automation

SCHOOL OF SCIENCE AND HEALTH

Master of Chinese Medicine

4716.1

The Master of Chinese Medicine is a postgraduate qualification designed for Chinese medicine practitioners wishing to strengthen their knowledge and better integrate into the health care system, and for graduates with a Chinese Medicine specialisation seeking a pathway to research. It can be completed in one-and-a-half years of full-time study or the equivalent in part-time study.

The course includes two major streams: a clinical stream and research-training pathway. The clinical stream features a substantial clinical placement in a teaching hospital in China affiliated with Beijing University of Chinese Medicine (BJUCM) in addition to clinical specialisation workshops. An alternative is also available for students who do not wish to complete the clinical placement overseas. The research stream includes a significant research project which is supported by the National Institute of Complementary Medicine (NICM). Students who wish to enter the research stream have to meet entry requirements (GPA of 5); graduates of this stream may be interested in furthering their studies in a higher degree.

The course will be delivered via structured, intensive workshops and online resources with self-directed learning between workshops to allow maximum flexibility for busy practitioners.

Students who complete the Master of Chinese Medicine from UWS, including the clinical placement at BJUCM, will also be awarded the Postgraduate Diploma in Chinese Medicine from BJUCM. Students may exit the Master of Chinese Medicine after one semester (i.e. after completing 40 credit points) with the Graduate Certificate in Chinese Medicine. Students in the clinical specialisation stream may exit the Master of Chinese Medicine after two semesters (i.e. after completing 80 credit points) with the Graduate Diploma in Chinese Medicine. Students can combine their studies in Chinese Medicine with additional postgraduate units in public health and health science. Where approved, completion of four such units, in addition to the Master of Chinese Medicine, will result in the award of a Graduate Certificate in Health Science or a Graduate Certificate in Public Health.

Study Mode

One and a half years full-time.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal
Campbelltown Campus	Part Time	Internal

Admission

Applicants must have either:

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 seeking admission on the basis of work experience must support their application with a Statement of Service for all work experience listed on the application.

Applicants holding registration from the Chinese Medicine Registration Board of Australia (CMBA) or full membership of 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 Director of Academic 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

- 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)
- 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 the University 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 Western Sydney University.

Course Structure

Qualification for this award requires the successful completion of 120 credit points including the core units listed below.

Core Units

- | | |
|-----------------|---|
| 401129.1 | Evidence Based Practice in Chinese Medicine |
| 401080.1 | Research Protocol Design and Practice |
| 401131.1 | Clinical Applications of Classical Acupuncture |
| 401130.1 | Clinical Application of Classical Chinese Herbal Medicine |
| 401132.1 | Women's Health in Chinese Medicine |
| 401133.1 | Clinical Placement |
| 400850.2 | Professional Topic |

Choose one of

- | | |
|-----------------|-------------------------------|
| 401076.1 | Introduction to Epidemiology |
| 401077.1 | Introduction to Biostatistics |

Specialist Units

Student must complete 30 credit points of elective units, either from the following list or other postgraduate units with DAP approval.

- | | |
|-----------------|--|
| 401134.1 | Musculoskeletal Health in Chinese Medicine |
| 401135.1 | Mental and Neurological Disorders and Chinese Medicine |
| 401136.1 | Clinical Oncology and Chinese Medicine |
| 401137.1 | Chronic and Complex Disorders in Chinese Medicine |

Master of Chinese Medicine (Research Pathway)

Note: Students require a GPA over 5.0 in order to take up the research stream option.

Core Units

- | | |
|-----------------|---|
| 401129.1 | Evidence Based Practice in Chinese Medicine |
| 401080.1 | Research Protocol Design and Practice |
| 401131.1 | Clinical Applications of Classical Acupuncture |
| 401130.1 | Clinical Application of Classical Chinese Herbal Medicine |
| 401132.1 | Women's Health in Chinese Medicine |
| 401138.1 | Research Project and Thesis |

Choose one of

- | | |
|-----------------|-------------------------------|
| 401076.1 | Introduction to Epidemiology |
| 401077.1 | Introduction to Biostatistics |

Graduate Diploma of Chinese Medicine (exit only)

Core Units

- | | |
|-----------------|---|
| 401129.1 | Evidence Based Practice in Chinese Medicine |
| 401080.1 | Research Protocol Design and Practice |
| 401131.1 | Clinical Applications of Classical Acupuncture |
| 401130.1 | Clinical Application of Classical Chinese Herbal Medicine |
| 401132.1 | Women's Health in Chinese Medicine |

Choose one of

- | | |
|-----------------|-------------------------------|
| 401076.1 | Introduction to Epidemiology |
| 401077.1 | Introduction to Biostatistics |

Plus 2 electives at any postgraduate level units

Graduate Certificate of Chinese Medicine (exit only)

- | | |
|-----------------|---|
| 401129.1 | Evidence Based Practice in Chinese Medicine |
| 401131.1 | Clinical Applications of Classical Acupuncture |
| 401130.1 | Clinical Application of Classical Chinese Herbal Medicine |

Choose one of

- | | |
|-----------------|-------------------------------|
| 401076.1 | Introduction to Epidemiology |
| 401077.1 | Introduction to Biostatistics |

Graduate Diploma in Chinese Medicine (exit only)

4717.1

This is an exit course only. Applicants apply to 4716 - Master of Chinese Medicine and exit with the Graduate Diploma in Chinese Medicine.

Study Mode

One year full-time

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal
Campbelltown Campus	Part Time	Internal

Course Structure**Core Units**

401129.1	Evidence Based Practice in Chinese Medicine
401080.1	Research Protocol Design and Practice
401131.1	Clinical Applications of Classical Acupuncture
401130.1	Clinical Application of Classical Chinese Herbal Medicine
401132.1	Women's Health in Chinese Medicine

Choose one of

401076.1	Introduction to Epidemiology
401077.1	Introduction to Biostatistics

Plus 2 electives at any postgraduate level units

Graduate Certificate in Chinese Medicine (exit only)**4718.1**

This is an exit course only. Applicants apply to 4716 - Master of Chinese Medicine and exit with the Graduate Certificate in Chinese Medicine.

Study Mode

Six months full-time

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal
Campbelltown Campus	Part Time	Internal

Course Structure

401129.1	Evidence Based Practice in Chinese Medicine
401131.1	Clinical Applications of Classical Acupuncture
401130.1	Clinical Application of Classical Chinese Herbal Medicine

Choose one of

401076.1	Introduction to Epidemiology
401077.1	Introduction to Biostatistics

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 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
400418.4	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
400847.3	Surveillance and Disaster Planning
400837.3	Health and Socio-political Issues in Aged Care

Note: Enrolment in 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 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

4698.2

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 the course was 2016 or later.

The Master of Health Science is designed for professionals working in a variety of health science settings, including both government and non-government organisations. In addition to the standard Master of Health Science, students can select from three specialisations, including Health Services Management (a program accredited by the Australian College of Health Service Management), Aged Care Management, or Occupational Health and Safety. Students can study a broad range of health science units relating to evidence-based health care and practice, health service planning, aged care management, health policy development, leadership, and health financial management. Students also receive practical skills in community development and health promotion programs, and also complete a culminating research and practice experience in the evaluation of a contemporary issue in health science.

Study Mode

Two years full-time or four years part-time. One and a half years full time (three years part-time) or one year full time (two years part-time) programs are also available, depending upon entry qualifications (see Pathways listed under Course Structure below).

Location

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

Admission

Master of Health Science (160 credit points)

Applicants must have either

An undergraduate, master or doctoral degree in any discipline

Or

A graduate diploma or graduate certificate in any discipline AND three years full-time equivalent work experience in a health, welfare or aged care discipline.

Master of Health Science (120 credit points)

Applicants must have either

An undergraduate degree, in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines

Or

A graduate diploma or graduate certificate in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines AND three years full-time equivalent work experience in a health, welfare or aged care discipline.

Master of Health Science (80 credit points)

Applicants must have

An undergraduate honours, master or doctoral degree, in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural Science and sport and recreation disciplines.

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 the University should also use the information provided on the UAC website

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

International students applying to The University through the International Office can find details of minimum English proficiency requirements and acceptable proof on their 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 Western Sydney University.

Course Structure

Health Services Management

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 Organisational Governance and Performance Management, Health Workforce Planning, as well as Quality and Safety in Health Care.

A4000.1	Master of Health Science (Health Service Management) - 2 year pathway
A4003.1	Master of Health Science (Health Service Management) - 1.5 year pathway
A4006.1	Master of Health Science (Health Service Management) - 1 year pathway

Aged Care Management

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.

A4001.1	Master of Health Science (Aged Care Management) - 2 year pathway
A4004.1	Master of Health Science (Aged Care Management) - 1.5 year pathway
A4007.1	Master of Health Science (Aged Care Management) - 1 year pathway

Occupational Health and 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.

A4002.1	Master of Health Science (Occupational Health and Safety) - 2 year pathway
A4005.1	Master of Health Science (Occupational Health and Safety) - 1.5 year pathway
A4008.1	Master of Health Science (Occupational Health and Safety) - 1 year pathway

Graduate Diploma in Health Science

4700.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year for this course is 2016 or later.

Areas of relevance to health employees in the public or private sector form the foundation subjects of this course: Global perspectives on the social determinants of health; Public health policy; Epidemiology; Biostatistics; Health services management and health planning.

Study Mode

One year full-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
Parramatta Campus	Full Time	Multi Modal
Parramatta Campus	Part Time	Multi Modal

Admission

Applicants must have either

An undergraduate or master degree in any discipline
OR

A graduate diploma or graduate certificate in any discipline AND two years full-time equivalent work experience in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural Science and sport and recreation disciplines.

Course Structure

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

Students must complete the following units

Core units

400416.2	Public Health, Policy and Society
401076.1	Introduction to Epidemiology
401077.1	Introduction to Biostatistics

Alternate units

Choose five units from the list below

400841.2	A Global Perspective on Social Determinants of Health
300391.2	Occupational Health Management
300677.2	Safety and Risk Management
400238.3	Policy, Power and Politics in Health Care Provision
400777.3	Leadership for Quality and Safety in Health Care
400778.2	Leadership and the Development of Organisational Capacity
400837.3	Health and Socio-political Issues in Aged Care
400840.3	Communicable Diseases
400843.2	Health Workforce Planning
400844.2	Health Services and Facilities Planning
400845.2	Health Financial Management
400846.3	Building Organisational Capacity in Health Care
400847.3	Surveillance and Disaster Planning
400967.2	Health Economics and Comparative Health Systems
401081.1	Organisational Governance and Performance Management
401173.1	Introduction to Clinical Epidemiology
401174.1	Epidemiology of Non-Communicable Diseases
401175.1	Analytic Approaches in Epidemiology
401176.1	Statistical Methods in Epidemiology
401177.1	Environmental Epidemiology
401178.1	Controversies in Epidemiology
401179.1	Data Management and Programming for Epidemiology

Graduate Certificate in Health Science**4701.2**

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year for this course is 2016 or later.

Areas of relevance to health employees in the public or private sector form the foundation subjects of this course: Global perspectives on the social determinants of health; Public health policy; Epidemiology; and Biostatistics.

Study Mode

Six months full-time.

Location

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

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

Admission

Applicants must have either

An undergraduate or master degree in any discipline

OR

A graduate diploma or graduate certificate in any discipline AND two years full-time equivalent work experience in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural Science and sport and recreation disciplines

OR

Three years full-time equivalent work experience in a health, welfare or aged care environment.

Course Structure

Qualification for this award requires the successful completion of 40 credit points which include the units listed in the recommended sequences below.

Students must complete the following units

Core units

400416.2	Public Health, Policy and Society
401076.1	Introduction to Epidemiology

Alternate units

Choose two units from the list below

401077.1	Introduction to Biostatistics
400841.2	A Global Perspective on Social Determinants of Health
300391.2	Occupational Health Management
300677.2	Safety and Risk Management
400238.3	Policy, Power and Politics in Health Care Provision
400777.3	Leadership for Quality and Safety in Health Care
400778.2	Leadership and the Development of Organisational Capacity
400837.3	Health and Socio-political Issues in Aged Care
400840.3	Communicable Diseases
400843.2	Health Workforce Planning
400844.2	Health Services and Facilities Planning
400845.2	Health Financial Management
400846.3	Building Organisational Capacity in Health Care
400847.3	Surveillance and Disaster Planning
400967.2	Health Economics and Comparative Health Systems
401081.1	Organisational Governance and Performance Management
401173.1	Introduction to Clinical Epidemiology
401174.1	Epidemiology of Non-Communicable Diseases
401175.1	Analytic Approaches in Epidemiology

401176.1	Statistical Methods in Epidemiology
401177.1	Environmental Epidemiology
401178.1	Controversies in Epidemiology
401179.1	Data Management and Programming for Epidemiology

Master of Public Health

4702.2

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 the course was 2016 or later.

The Master of Public Health course is designed for professionals working in a variety of settings, including health departments and community organisations. Public health professionals are required to effectively assess and respond to emerging public health issues. This course emphasises a comprehensive assessment of all determinants of health, which include broader social and environmental factors in addition to physical risk factors. Students can study a wide range of evaluation processes and research methods such as policy analysis, economic evaluation, epidemiology and qualitative methods. Students also receive practical skills in community development and health promotion programs, and also complete a culminating research and practice experience in the evaluation of a contemporary public health issue.

Study Mode

Two years full-time, four years part-time. One and a half years full time or one year full time programs are also available, depending upon entry qualifications (see Pathways listed under Course Structure below).

Location

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

Admission

Master of Public Health (160 credit points)

Applicants must have either

An undergraduate, master or doctoral degree in any discipline

OR

A Graduate Diploma or Graduate Certificate in any discipline AND three years full-time equivalent work experience in a health, welfare or aged care discipline.

Master of Public Health (120 credit points)

Applicants must have either

An undergraduate degree in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural Science and sport and recreation disciplines

OR

A Graduate Diploma or Graduate Certificate in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines AND three years full-time equivalent work experience in a health, welfare or aged care discipline.

Master of Public Health (80 credit points)

Applicants must have

An undergraduate honours, master or doctoral degree in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines.

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 the University should also use the information provided on the UAC website.

International applicants must apply directly to Western Sydney University via the International Office. International students applying to The University through the International Office can find details of minimum English proficiency requirements and acceptable proof on their 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 Western Sydney University.

Course Structure

Pathways

A4009.1	Master of Public Health - 2 year pathway
A4010.1	Master of Public Health - 1.5 year pathway
A4011.1	Master of Public Health - 1 year pathway

Graduate Diploma in Public Health

4704.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year for this course is 2016 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 can study a wide range of evaluation processes and research methods relating to public health and policy analysis, economic evaluation, epidemiology and biostatistics. Practical program skills are developed in community development and health promotion units.

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
Parramatta Campus	Full Time	Multi Modal
Parramatta Campus	Part Time	Multi Modal

Admission

Applicants must have either

An undergraduate or master degree in any discipline

OR

A Graduate Diploma or Graduate Certificate in any discipline AND two years full-time equivalent 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 the University should also use the information provided on the UAC website.

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

International students applying to The University through the International Office can find details of minimum English proficiency requirements and acceptable proof on their 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 Western Sydney University.

Course Structure

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

Core units

Students must complete the following units

400841.2	A Global Perspective on Social Determinants of Health
400416.2	Public Health, Policy and Society
401076.1	Introduction to Epidemiology
401077.1	Introduction to Biostatistics

Alternate Units

Choose four units from the list below

300391.2	Occupational Health Management
300677.2	Safety and Risk Management
400238.3	Policy, Power and Politics in Health Care Provision
400777.3	Leadership for Quality and Safety in Health Care
400778.2	Leadership and the Development of Organisational Capacity
400837.3	Health and Socio-political Issues in Aged Care
400840.3	Communicable Diseases
400843.2	Health Workforce Planning
400844.2	Health Services and Facilities Planning
400845.2	Health Financial Management
400846.3	Building Organisational Capacity in Health Care
400847.3	Surveillance and Disaster Planning
400967.2	Health Economics and Comparative Health Systems
401081.1	Organisational Governance and Performance Management
401173.1	Introduction to Clinical Epidemiology
401179.1	Data Management and Programming for Epidemiology
401174.1	Epidemiology of Non-Communicable Diseases
401177.1	Environmental Epidemiology
401178.1	Controversies in Epidemiology
401175.1	Analytic Approaches in Epidemiology
401176.1	Statistical Methods in Epidemiology

Graduate Certificate in Public Health

4705.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year for this course is 2016 or later.

To complete the Graduate Certificate in Public Health, students complete the core units of the Graduate Diploma course. These units provide students with a range of critical, research and practical skills in the areas of public health and policy analysis, epidemiology, and biostatistics. 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

Six months full-time or one 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
Parramatta Campus	Full Time	Multi Modal
Parramatta Campus	Part Time	Multi Modal

Admission

Applicants must have either

An undergraduate or master degree in any discipline

OR

A Graduate Diploma or Graduate Certificate in any discipline AND two years full-time equivalent work experience in a health, welfare or aged care discipline

OR

Three years full-time equivalent 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 the University should also use the information provided on the UAC website.

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

International students applying to The University through the International Office can find details of minimum English proficiency requirements and acceptable proof on their 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 Western Sydney University.

Course Structure

Qualification for this award requires the successful completion of 40 credit points

Students must complete the following units

400841.2	A Global Perspective on Social Determinants of Health
400416.2	Public Health, Policy and Society
401076.1	Introduction to Epidemiology
401077.1	Introduction to Biostatistics

Specialisations

Postgraduate Admission Pathway - Master of Health Science (Health Service Management) - 2 year pathway

A4000.1

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 Organisational Governance and Performance Management, Health Workforce Planning, as well as Quality and Safety in Health Care.

Location

Campus	Mode
Online	External
Parramatta Campus	Internal

Specialisation Structure

Master of Health Science - two year program.

Applicants must have either

An undergraduate, master or doctoral degree in any discipline

OR a graduate diploma or graduate certificate in any discipline AND three years full-time equivalent work experience in a health, welfare or aged care discipline.

Health Services Management

Core Units

Students must complete the core units listed below

400416.2	Public Health, Policy and Society
400843.2	Health Workforce Planning
400844.2	Health Services and Facilities Planning
400845.2	Health Financial Management
401081.1	Organisational Governance and Performance Management
401076.1	Introduction to Epidemiology
401077.1	Introduction to Biostatistics

Alternate Units

Students enrolled in the two year program may select up to eight of the following units

400238.3	Policy, Power and Politics in Health Care Provision
400777.3	Leadership for Quality and Safety in Health Care

400846.3	Building Organisational Capacity in Health Care
400841.2	A Global Perspective on Social Determinants of Health
300391.2	Occupational Health Management
300677.2	Safety and Risk Management
400778.2	Leadership and the Development of Organisational Capacity
400837.3	Health and Socio-political Issues in Aged Care
400840.3	Communicable Diseases
400847.3	Surveillance and Disaster Planning
400967.2	Health Economics and Comparative Health Systems
401173.1	Introduction to Clinical Epidemiology
401179.1	Data Management and Programming for Epidemiology
401174.1	Epidemiology of Non-Communicable Diseases
401175.1	Analytic Approaches in Epidemiology
401176.1	Statistical Methods in Epidemiology
401177.1	Environmental Epidemiology
401178.1	Controversies in Epidemiology

Capstone Units

Students must complete at least one of the following units

401080.1	Research Protocol Design and Practice
400418.4	Health Advancement and Health Promotion
400850.2	Professional Topic
401078.1	Research Project

Note: 401078 - Research Project is a 20 credit point unit

401079.1	Dissertation
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Note: 401079 - Dissertation is a 40 credit point unit

Postgraduate Admission Pathway - Master of Health Science (Aged Care Management) - 2 year pathway

A4001.1

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.

Location

Campus	Mode
Online	External
Parramatta Campus	Internal

Specialisation Structure

Master of Health Science - two year program.

Applicants must have either

An undergraduate, master or doctoral degree in any discipline

OR a graduate diploma or graduate certificate in any discipline AND three years full-time equivalent work experience in a health, welfare or aged care discipline

Aged Care Management

Core Units

Students must complete the core units listed below

400416.2	Public Health, Policy and Society
400837.3	Health and Socio-political Issues in Aged Care
400845.2	Health Financial Management
400843.2	Health Workforce Planning
401081.1	Organisational Governance and Performance Management
401076.1	Introduction to Epidemiology
401077.1	Introduction to Biostatistics

Alternate Units

Students enrolled in the two year program may select up to eight of the following units

400777.3	Leadership for Quality and Safety in Health Care
400841.2	A Global Perspective on Social Determinants of Health
300391.2	Occupational Health Management
300677.2	Safety and Risk Management
400238.3	Policy, Power and Politics in Health Care Provision
400778.2	Leadership and the Development of Organisational Capacity
400840.3	Communicable Diseases
400844.2	Health Services and Facilities Planning
400846.3	Building Organisational Capacity in Health Care
400847.3	Surveillance and Disaster Planning
400967.2	Health Economics and Comparative Health Systems
401173.1	Introduction to Clinical Epidemiology
401179.1	Data Management and Programming for Epidemiology
401174.1	Epidemiology of Non-Communicable Diseases
401177.1	Environmental Epidemiology
401178.1	Controversies in Epidemiology
401175.1	Analytic Approaches in Epidemiology
401176.1	Statistical Methods in Epidemiology

Capstone Units

Students must complete at least one of the following units

401080.1	Research Protocol Design and Practice
400418.4	Health Advancement and Health Promotion
400850.2	Professional Topic
401078.1	Research Project

Note: 401078 - Research Project is 20 credit point unit

401079.1	Dissertation
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Note: 401079 - Dissertation is a 40 credit point unit

Postgraduate Admission Pathway - Master of Health Science (Occupational Health and Safety) - 2 year pathway

A4002.1

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.

Location

Campus	Mode
Online	External
Parramatta Campus	Internal

Specialisation Structure

Master of Health Science - two year program.

Applicants must have either

An undergraduate, master or doctoral degree in any discipline

OR a graduate diploma or graduate certificate in any discipline AND three years full-time equivalent work experience in a health, welfare or aged care discipline.

Occupational Health and Safety

Core Units

Students must complete the core units listed below

300391.2	Occupational Health Management
300677.2	Safety and Risk Management
400416.2	Public Health, Policy and Society
401076.1	Introduction to Epidemiology
401077.1	Introduction to Biostatistics

Alternate Units

Students enrolled in the two year program may select up to ten of the following units

400841.2	A Global Perspective on Social Determinants of Health
400238.3	Policy, Power and Politics in Health Care Provision
400777.3	Leadership for Quality and Safety in Health Care
400778.2	Leadership and the Development of Organisational Capacity
400837.3	Health and Socio-political Issues in Aged Care
400840.3	Communicable Diseases

400843.2	Health Workforce Planning
400844.2	Health Services and Facilities Planning
400845.2	Health Financial Management
400846.3	Building Organisational Capacity in Health Care
400847.3	Surveillance and Disaster Planning
400967.2	Health Economics and Comparative Health Systems
401081.1	Organisational Governance and Performance Management
401173.1	Introduction to Clinical Epidemiology
401174.1	Epidemiology of Non-Communicable Diseases
401175.1	Analytic Approaches in Epidemiology
401176.1	Statistical Methods in Epidemiology
401177.1	Environmental Epidemiology
401178.1	Controversies in Epidemiology
401179.1	Data Management and Programming for Epidemiology

Capstone Units

Students must complete at least one of the following units

401080.1	Research Protocol Design and Practice
400418.4	Health Advancement and Health Promotion
400850.2	Professional Topic
401078.1	Research Project

Note: 401078 - Research Project is 20 credit point unit

401079.1	Dissertation
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Note: 401079 - Dissertation is a 40 credit point unit

Postgraduate Admission Pathway - Master of Health Science (Health Service Management) - 1.5 year pathway

A4003.1

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 Organisational Governance and Performance Management, Health Workforce Planning, as well as Quality and Safety in Health Care.

Location

Campus	Mode
Online	External
Parramatta Campus	Internal

Specialisation Structure

Master of Health Science - One and a half year program.
Applicants must have either

An undergraduate degree, in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines

OR a graduate diploma or graduate certificate in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines
AND three years full-time equivalent work experience in a health, welfare or aged care discipline.

Health Services Management

Core Units

Students must complete the core units listed below

400416.2	Public Health, Policy and Society
400843.2	Health Workforce Planning
400844.2	Health Services and Facilities Planning
400845.2	Health Financial Management
401081.1	Organisational Governance and Performance Management
401076.1	Introduction to Epidemiology
401077.1	Introduction to Biostatistics

Alternate Units

Students enrolled in the one and a half year program may select up to four of the following units

400238.3	Policy, Power and Politics in Health Care Provision
400777.3	Leadership for Quality and Safety in Health Care
400846.3	Building Organisational Capacity in Health Care
400841.2	A Global Perspective on Social Determinants of Health
300391.2	Occupational Health Management
300677.2	Safety and Risk Management
400778.2	Leadership and the Development of Organisational Capacity
400837.3	Health and Socio-political Issues in Aged Care
400840.3	Communicable Diseases
400847.3	Surveillance and Disaster Planning
400967.2	Health Economics and Comparative Health Systems
401173.1	Introduction to Clinical Epidemiology
401179.1	Data Management and Programming for Epidemiology
401174.1	Epidemiology of Non-Communicable Diseases
401175.1	Analytic Approaches in Epidemiology
401176.1	Statistical Methods in Epidemiology
401177.1	Environmental Epidemiology
401178.1	Controversies in Epidemiology

Capstone Units

Students must complete at least one of the following units

401080.1	Research Protocol Design and Practice
400418.4	Health Advancement and Health Promotion
400850.2	Professional Topic
401078.1	Research Project

Note: 401078 - Research Project is 20 credit point unit

401079.1 Dissertation

Note: 401079 - Dissertation is a 40 credit point unit

Postgraduate Admission Pathway - Master of Health Science (Aged Care Management) - 1.5 year pathway

A4004.1

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.

Location

Campus	Mode
Online	External
Parramatta Campus	Internal

Specialisation Structure

Master of Health Science - One and a half year program.

Applicants must have either

An undergraduate degree, in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines

OR a graduate diploma or graduate certificate in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines AND three years full-time equivalent work experience in a health, welfare or aged care discipline.

Aged Care Management**Core Units**

Students must complete the core units listed below

400416.2	Public Health, Policy and Society
400837.3	Health and Socio-political Issues in Aged Care
400845.2	Health Financial Management
400843.2	Health Workforce Planning
401081.1	Organisational Governance and Performance Management
401076.1	Introduction to Epidemiology
401077.1	Introduction to Biostatistics

Alternate Units

Students enrolled in the one and a half year program may select up to four of the following units

400777.3	Leadership for Quality and Safety in Health Care
400841.2	A Global Perspective on Social Determinants of Health

300391.2	Occupational Health Management
300677.2	Safety and Risk Management
400238.3	Policy, Power and Politics in Health Care Provision
400778.2	Leadership and the Development of Organisational Capacity
400840.3	Communicable Diseases
400844.2	Health Services and Facilities Planning
400846.3	Building Organisational Capacity in Health Care
400847.3	Surveillance and Disaster Planning
400967.2	Health Economics and Comparative Health Systems
401173.1	Introduction to Clinical Epidemiology
401174.1	Epidemiology of Non-Communicable Diseases
401175.1	Analytic Approaches in Epidemiology
401176.1	Statistical Methods in Epidemiology
401177.1	Environmental Epidemiology
401178.1	Controversies in Epidemiology
401179.1	Data Management and Programming for Epidemiology

Capstone Units

Students must complete at least one of the following units

401080.1	Research Protocol Design and Practice
400418.4	Health Advancement and Health Promotion
400850.2	Professional Topic
401078.1	Research Project

Note: 401078 - Research Project is 20 credit point unit

401079.1 Dissertation

Note: 401079 - Dissertation is a 40 credit point unit

Postgraduate Admission Pathway - Master of Health Science (Occupational Health and Safety) - 1.5 year pathway

A4005.1

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.

Location

Campus	Mode
Online	External
Parramatta Campus	Internal

Specialisation Structure

Master of Health Science - one and a half year program.

Applicants must have either

An undergraduate degree, in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines

OR a graduate diploma or graduate certificate in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines

AND three years full-time equivalent work experience in a health, welfare or aged care discipline

Occupational Health and Safety

Core Units

Students must complete the core units listed below

300391.2	Occupational Health Management
300677.2	Safety and Risk Management
400416.2	Public Health, Policy and Society
401076.1	Introduction to Epidemiology
401077.1	Introduction to Biostatistics

Alternate Units

Students enrolled in the one and a half year program may select up to six of the following units

400841.2	A Global Perspective on Social Determinants of Health
400238.3	Policy, Power and Politics in Health Care Provision
400777.3	Leadership for Quality and Safety in Health Care
400778.2	Leadership and the Development of Organisational Capacity
400837.3	Health and Socio-political Issues in Aged Care
400840.3	Communicable Diseases
400843.2	Health Workforce Planning
400844.2	Health Services and Facilities Planning
400845.2	Health Financial Management
400846.3	Building Organisational Capacity in Health Care
400847.3	Surveillance and Disaster Planning
400967.2	Health Economics and Comparative Health Systems
401081.1	Organisational Governance and Performance Management
401173.1	Introduction to Clinical Epidemiology
401174.1	Epidemiology of Non-Communicable Diseases
401175.1	Analytic Approaches in Epidemiology
401176.1	Statistical Methods in Epidemiology
401177.1	Environmental Epidemiology
401178.1	Controversies in Epidemiology
401179.1	Data Management and Programming for Epidemiology

Capstone Units

Students must complete at least one of the following units

401080.1	Research Protocol Design and Practice
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400418.4	Health Advancement and Health Promotion
400850.2	Professional Topic
401078.1	Research Project

Note: 401078 - Research Project is 20 credit point unit

401079.1	Dissertation
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Note: 401079 - Dissertation is a 40 credit point unit

Postgraduate Admission Pathway - Master of Health Science (Health Service Management) - 1 year pathway

A4006.1

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 Organisational Governance and Performance Management, Health Workforce Planning, as well as Quality and Safety in Health Care.

Location

Campus	Mode
Online	External
Parramatta Campus	Internal

Specialisation Structure

Health Services Management

Master of Health Science - one year program.

Applicants must have

An undergraduate honours, master or doctoral degree, in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines.

Core Units

Students must complete the core units listed below

400416.2	Public Health, Policy and Society
400843.2	Health Workforce Planning
400844.2	Health Services and Facilities Planning
400845.2	Health Financial Management
401081.1	Organisational Governance and Performance Management
401076.1	Introduction to Epidemiology
401077.1	Introduction to Biostatistics

Capstone Units

Students must complete at least one of the following units

401080.1	Research Protocol Design and Practice
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400418.4 Health Advancement and Health Promotion
400850.2 Professional Topic

Postgraduate Admission Pathway - Master of Health Science (Aged Care Management) - 1 year pathway

A4007.1

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.

Location

Campus	Mode
Online	External
Parramatta Campus	Internal

Specialisation Structure

Master of Health Science - one year program.

Applicants must have

An undergraduate honours, master or doctoral degree, in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural Science and sport and recreation disciplines.

Aged Care Management

Core Units

Students must complete the core units listed below

400416.2	Public Health, Policy and Society
400837.3	Health and Socio-political Issues in Aged Care
400845.2	Health Financial Management
400843.2	Health Workforce Planning
401081.1	Organisational Governance and Performance Management
401076.1	Introduction to Epidemiology
401077.1	Introduction to Biostatistics

Capstone Units

Students must complete at least one of the following units

401080.1	Research Protocol Design and Practice
400418.4	Health Advancement and Health Promotion
400850.2	Professional Topic

Postgraduate Admission Pathway - Master of Health Science (Occupational Health and Safety) - 1 year pathway

A4008.1

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.

Location

Campus	Mode
Online	External
Parramatta Campus	Internal

Specialisation Structure

Master of Health Science - one year program.

Applicants must have

An undergraduate honours, master or doctoral degree, in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines.

Occupational Health and Safety

Core Units

Students must complete the core units listed below

300391.2	Occupational Health Management
300677.2	Safety and Risk Management
400416.2	Public Health, Policy and Society
401076.1	Introduction to Epidemiology
401077.1	Introduction to Biostatistics

Alternate Units

Students enrolled in the one year program may select up to two of the following units

400841.2	A Global Perspective on Social Determinants of Health
400238.3	Policy, Power and Politics in Health Care Provision
400777.3	Leadership for Quality and Safety in Health Care
400778.2	Leadership and the Development of Organisational Capacity
400837.3	Health and Socio-political Issues in Aged Care
400840.3	Communicable Diseases

400843.2	Health Workforce Planning
400844.2	Health Services and Facilities Planning
400845.2	Health Financial Management
400846.3	Building Organisational Capacity in Health Care
400847.3	Surveillance and Disaster Planning
400967.2	Health Economics and Comparative Health Systems
401081.1	Organisational Governance and Performance Management
401173.1	Introduction to Clinical Epidemiology
401174.1	Epidemiology of Non-Communicable Diseases
401175.1	Analytic Approaches in Epidemiology
401176.1	Statistical Methods in Epidemiology
401177.1	Environmental Epidemiology
401178.1	Controversies in Epidemiology
401179.1	Data Management and Programming for Epidemiology

Capstone Units

Students must complete at least one of the following units

401080.1	Research Protocol Design and Practice
400418.4	Health Advancement and Health Promotion
400850.2	Professional Topic
401078.1	Research Project

Note: 401078 - Research Project is 20 credit point unit

401079.1	Dissertation
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Note: 401079 - Dissertation is a 40 credit point unit

Postgraduate Admission Pathway - Master of Public Health - 2 year pathway

A4009.1

The Master of Public Health course is designed for professionals working in a variety of settings, including health departments and community organisations. Public health professionals are required to effectively assess and respond to emerging public health issues. This course emphasises a comprehensive assessment of all determinants of health, which include broader social and environmental factors in addition to physical risk factors. Students can study a wide range of evaluation processes and research methods such as policy analysis, economic evaluation, epidemiology and qualitative methods. Students also receive practical skills in community development and health promotion programs, and also complete a culminating research and practice experience in the evaluation of a contemporary public health issue.

Location

Campus	Mode
Online	External
Parramatta Campus	Internal

Specialisation Structure

Master of Public Health - two year program.

Applicants must have either

An undergraduate, master or doctoral degree in any discipline

OR a Graduate Diploma or Graduate Certificate in any discipline AND three years full-time equivalent work experience in a health, welfare or aged care discipline.

Core Units

All students must complete the core units below

400841.2	A Global Perspective on Social Determinants of Health
400416.2	Public Health, Policy and Society
401076.1	Introduction to Epidemiology
401077.1	Introduction to Biostatistics

Alternate Units

Students enrolled in the two year program may select up to eleven of the following units

300391.2	Occupational Health Management
300677.2	Safety and Risk Management
400238.3	Policy, Power and Politics in Health Care Provision
400777.3	Leadership for Quality and Safety in Health Care
400778.2	Leadership and the Development of Organisational Capacity
400837.3	Health and Socio-political Issues in Aged Care
400840.3	Communicable Diseases
400843.2	Health Workforce Planning
400844.2	Health Services and Facilities Planning
400845.2	Health Financial Management
400846.3	Building Organisational Capacity in Health Care
400847.3	Surveillance and Disaster Planning
400967.2	Health Economics and Comparative Health Systems
401081.1	Organisational Governance and Performance Management
401173.1	Introduction to Clinical Epidemiology
401179.1	Data Management and Programming for Epidemiology
401174.1	Epidemiology of Non-Communicable Diseases
401177.1	Environmental Epidemiology
401178.1	Controversies in Epidemiology
401175.1	Analytic Approaches in Epidemiology
401176.1	Statistical Methods in Epidemiology

Capstone Units

Students must complete at least one of the following units

401080.1	Research Protocol Design and Practice
400418.4	Health Advancement and Health Promotion
400850.2	Professional Topic
401078.1	Research Project
401079.1	Dissertation

Postgraduate Admission Pathway - Master of Public Health - 1.5 year pathway

A4010.1

The Master of Public Health course is designed for professionals working in a variety of settings, including health departments and community organisations. Public health professionals are required to effectively assess and respond to emerging public health issues. This course emphasises a comprehensive assessment of all determinants of health, which include broader social and environmental factors in addition to physical risk factors. Students can study a wide range of evaluation processes and research methods such as policy analysis, economic evaluation, epidemiology and qualitative methods. Students also receive practical skills in community development and health promotion programs, and also complete a culminating research and practice experience in the evaluation of a contemporary public health issue.

Location

Campus	Mode
Online	External
Parramatta Campus	Internal

Specialisation Structure

Master of Public Health - One and a half year program.

Applicants must have either

An undergraduate degree in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural Science and sport and recreation disciplines

OR a Graduate Diploma or Graduate Certificate in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines AND three years full-time equivalent work experience in a health, welfare or aged care discipline.

Core Units

All students must complete the core units below

400841.2	A Global Perspective on Social Determinants of Health
400416.2	Public Health, Policy and Society
401076.1	Introduction to Epidemiology
401077.1	Introduction to Biostatistics

Alternate Units

Students enrolled in the one and a half year program may select up to seven of the following units

300391.2	Occupational Health Management
300677.2	Safety and Risk Management
400238.3	Policy, Power and Politics in Health Care Provision
400777.3	Leadership for Quality and Safety in Health Care

400778.2	Leadership and the Development of Organisational Capacity
400837.3	Health and Socio-political Issues in Aged Care
400840.3	Communicable Diseases
400843.2	Health Workforce Planning
400844.2	Health Services and Facilities Planning
400845.2	Health Financial Management
400846.3	Building Organisational Capacity in Health Care
400847.3	Surveillance and Disaster Planning
400967.2	Health Economics and Comparative Health Systems
401081.1	Organisational Governance and Performance Management
401173.1	Introduction to Clinical Epidemiology
401179.1	Data Management and Programming for Epidemiology
401174.1	Epidemiology of Non-Communicable Diseases
401177.1	Environmental Epidemiology
401178.1	Controversies in Epidemiology
401175.1	Analytic Approaches in Epidemiology
401176.1	Statistical Methods in Epidemiology

Capstone Units

Students must complete at least one of the following units

401080.1	Research Protocol Design and Practice
400418.4	Health Advancement and Health Promotion
400850.2	Professional Topic
401078.1	Research Project
401079.1	Dissertation

Postgraduate Admission Pathway - Master of Public Health - 1 year pathway

A4011.1

The Master of Public Health course is designed for professionals working in a variety of settings, including health departments and community organisations. Public health professionals are required to effectively assess and respond to emerging public health issues. This course emphasises a comprehensive assessment of all determinants of health, which include broader social and environmental factors in addition to physical risk factors. Students can study a wide range of evaluation processes and research methods such as policy analysis, economic evaluation, epidemiology and qualitative methods. Students also receive practical skills in community development and health promotion programs, and also complete a culminating research and practice experience in the evaluation of a contemporary public health issue.

Location

Campus	Mode
Online	External
Parramatta Campus	Internal

Specialisation Structure

Master of Public Health - one year program.

Applicants must have an undergraduate honours, master or doctoral degree in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines.

Core Units

All students must complete the core units below

- 400841.2** A Global Perspective on Social Determinants of Health
- 400416.2** Public Health, Policy and Society
- 401076.1** Introduction to Epidemiology
- 401077.1** Introduction to Biostatistics

Alternate Units

Students enrolled in the one year program may select up to three of the following units

- 300391.2** Occupational Health Management
- 300677.2** Safety and Risk Management
- 400238.3** Policy, Power and Politics in Health Care Provision
- 400777.3** Leadership for Quality and Safety in Health Care
- 400778.2** Leadership and the Development of Organisational Capacity
- 400837.3** Health and Socio-political Issues in Aged Care
- 400840.3** Communicable Diseases
- 400843.2** Health Workforce Planning
- 400844.2** Health Services and Facilities Planning
- 400845.2** Health Financial Management
- 400846.3** Building Organisational Capacity in Health Care
- 400847.3** Surveillance and Disaster Planning
- 400967.2** Health Economics and Comparative Health Systems
- 401081.1** Organisational Governance and Performance Management
- 401173.1** Introduction to Clinical Epidemiology
- 401179.1** Data Management and Programming for Epidemiology
- 401174.1** Epidemiology of Non-Communicable Diseases
- 401177.1** Environmental Epidemiology
- 401178.1** Controversies in Epidemiology
- 401175.1** Analytic Approaches in Epidemiology
- 401176.1** Statistical Methods in Epidemiology

Capstone Units

Students must complete at least one of the following units

- 401080.1** Research Protocol Design and Practice
- 400418.4** Health Advancement and Health Promotion
- 400850.2** Professional Topic
- 401078.1** Research Project
- 401079.1** Dissertation

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.

301010.1 Advanced Applied Mechanics

Credit Points 10 **Level** 7

Assumed Knowledge

Students should have prior knowledge of strain, stress and deflection analysis of simple structures as well as knowledge of energy principle for structural analysis.

Special Requirements

Students must be enrolled in a postgraduate course

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Applied mechanics deals with the mechanical responses of structural components under various loading and support conditions. This unit will introduce the theory of elasticity and study the bending, buckling and vibration behaviours of beams, plates and shells and their associated applications in engineering practices.

301008.1 Advanced Composite Structures

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course

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This unit enables students to gain an in-depth knowledge into composite structures based on Australian Standards and International Standards. Recent advances in the design of composite beams, slabs, columns and connections will be introduced.

301023.1 Advanced Computational Fluid Dynamics

Credit Points 10 **Level** 7

Assumed Knowledge

Finite element methods, Thermal dynamics and Fluid mechanics.

Special Requirements

Students must be enrolled in a postgraduate course

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This unit introduces students to commonly used numerical methods used in computational fluid dynamics (CFD). The unit covers the theory and the application of CFD for solving engineering problems. The numerical methods for solving the in viscid flow and the viscous flow problems will be introduced. The students learn the application of the engineering software in the engineering problems.

301022.1 Advanced Computer Aided Engineering

Credit Points 10 **Level** 7

Assumed Knowledge

The students are assumed to have a good understanding on basics of finite element method and analysis, fundamentals and advanced topics in mechanics of materials, fundamentals on fluid mechanics and heat transfer and thermal dynamics.

Special Requirements

Students must be enrolled in 3693 Master of Engineering or 3695 Graduate Certificate in Engineering. Essential Equipment: Finite element analysis packages – Abaqus, ANSYS and SolidWorks.

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This unit focuses on advanced topics in computer aided engineering and their applications in mechanical engineering in analysing a wide range of engineering problems. The objective of this unit is to advance students' knowledge and skill level on the finite element method (FEM)-based computer aided engineering (CAE) and its advanced applications in the fields of solid mechanics, fluid mechanics, thermodynamics and heat transfer and product design and development as well. Academic skills on research and communication are ensured to be achieved through conducting FEM-based CAE projects.

300603.3 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 competence in the use of test equipment, components and data sheets. Students must be enrolled in a postgraduate course

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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.

300173.3 Advanced Data Networks

Credit Points 10 **Level** 7

Assumed Knowledge

Communication Systems / Digital Communication

Special Requirements

Students must be enrolled in a postgraduate course

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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.

301019.1 Advanced Dynamic Systems

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course

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This unit covers three-dimensional kinematics and kinetics of a rigid body. The principles of virtual work are used to investigate the equilibrium and dynamics of mechanisms. Some key aspects of mechanical vibrations are introduced, including vibration response, vibration isolation and vibration measurement.

300601.3 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

Special Requirements

Students must be enrolled in a postgraduate course

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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.

301006.1 Advanced Engineering Project 1

Credit Points 10 **Level** 7

Corequisite

301027.1 Industrial Experience (PG)

Special Requirements

Students must be enrolled in a postgraduate course

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This unit develops the students' expertise in engineering project management including professional ethics and legal obligations and their research and presentation skills. It will be achieved through employment of appropriate research skills on a capstone project which demonstrates student's professional expert level of identifying and planning an engineering project.

301007.1 Advanced Engineering Project 2

Credit Points 10 **Level** 7

Prerequisite

301006.1 Advanced Engineering Project 1

Corequisite

301027.1 Industrial Experience (PG)

Special Requirements

Students must have completed 301006 Advanced Engineering Project 1 before undertaking this unit. Students must be enrolled in a postgraduate course

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In this unit, the focus will be to work on an engineering problem in a capstone project and complete the project via enhancement of research and presentation skills of students. It will be achieved through employment of appropriate research skills on a capstone project, which demonstrates student's professional expertise of completing an engineering project.

300604.3 Advanced Geotechnical Engineering

Credit Points 10 **Level** 7

Assumed Knowledge

Fundamental knowledge of soil mechanics.

Equivalent Units

300520 - Foundation Engineering (PG)

Special Requirements

Students must be enrolled in a postgraduate course

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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.

301028.1 Advanced Healthcare Data Environments

Credit Points 10 **Level** 7

This unit extends the students' knowledge of Health Informatics by introducing concepts relating to electronic communications within the Health Industry. It exposes students to a variety of environments used to create, store, transfer and deliver healthcare data. Areas include minimum data sets, data linkage, messaging concepts/ standards, terminologies, healthcare evaluation, electronic health records and related Standards, security, privacy and trust, epidemiology and population health together with TeleHealth/ TeleMedicine approaches, methodologies, tools and techniques. Advanced knowledge and knowledge of recent developments in specific sub-topics will be acquired through practical components in the unit.

301029.1 Advanced Healthcare Software and Systems

Credit Points 10 **Level** 7

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. Advanced knowledge and knowledge of recent developments in specific sub-topics will also be acquired through practical components in the unit.

301011.1 Advanced Highway Infrastructure

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course

This unit teaches bridge superstructure design and ground engineering design prior to construction of the highway. The aim is to provide students with advanced knowledge in bridge construction, loading and structural design, ground improvement techniques to deal with soft and weak grounds, and construction of highway embankments. These aspects will be taught in relation to Australian design codes.

301014.1 Advanced Hydrogeology

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course

This unit covers occurrence of groundwater, groundwater movement, groundwater hydraulics, water wells, quality of groundwater, groundwater modelling and groundwater management. The objectives of this unit are to enable students to learn the associated concept of groundwater and apply the learnt concepts in solving groundwater problems in advanced engineering practice.

301119.1 Advanced Machine Learning

Credit Points 10 **Level** 7

Assumed Knowledge

Fundamentals of computer programming and basic linear algebra.

Prerequisite

301113.1 Programming for Data Science

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit. Access to a computer is required.

Advanced Machine Learning explores modern methods of classification, clustering and regression to make predictions and analyse different forms of data. Issues that face all machine learning methods, such as model evaluation, assessment and generalisation will also be analysed.

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.

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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.

301020.1 Advanced Mobile Robotics

Credit Points 10 **Level** 7

Assumed Knowledge

Some basic skills in MATLAB and C/C++ programming.

Special Requirements

Students must be enrolled in a postgraduate course

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This unit is designed to develop an understanding of the concepts involved in Mobile Robotics. The areas of mobile robot mechanics, localisation, map building and path planning will be introduced. Various sensors and their applications in mobile robotics are also to be introduced.

301024.1 Advanced Numerical Methods in Engineering

Credit Points 10 **Level** 7

Assumed Knowledge

Students should have prior knowledge of strain, stress and deflection analysis of simple structures as well as knowledge of energy principle for structural analysis.

Special Requirements

Students must be enrolled in a postgraduate course

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The finite element method is an essential tool for the analysis and design of machine parts and civil engineering structures. The objective of this unit is to introduce the principles of finite element method and the applications of one, two and three dimensional elements in solving various engineering problems.

301025.1 Advanced Power Quality

Credit Points 10 **Level** 7

Assumed Knowledge

Students are expected to be familiar with basic power system calculations including balanced and unbalanced three-phase systems.

Special Requirements

Students must be enrolled in 3693 Master of Engineering, 3694 Graduate Diploma in Engineering or 3695 Graduate Certificate in Engineering.

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This unit is to introduce students to power quality phenomena such as voltage sag/swell, distortions, unbalance, and flicker that occur in power systems. The unit also introduces terms and definitions associated with power quality, following which each phenomenon, that is, voltage sag/swell, transient overvoltage, and harmonics. In addition, flicker is presented and discussed in detail for students to understand the sources and impact of these occurrences on power system as well as typical mitigation techniques. Finally, students are introduced to power quality benchmarking, monitoring, assessment. In addition Advanced knowledge on network frequency responses is presented.

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 critically appraise research literature and high level communication skills and capacity to work in partnership with families.

Special Requirements

Students must be a Registered Nurse, Registered Midwife or health professional due to public safety issues.

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This unit provides students with advanced theoretical knowledge around infant and young child feeding. The course 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. There is 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 qualification in the future.

300599.3 Advanced Robotics

Credit Points 10 **Level** 7

Assumed Knowledge

Some Knowledge of MATLAB/Simulink

Incompatible Units

300176 - Advanced Robotics, 300192 - Mobile Robotic Systems

Special Requirements

Students must be enrolled in a postgraduate course

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This unit is designed to introduce the engineering concepts involved in Robotics. The kinematics, dynamics, control and sensing aspects in robotics will be introduced. In addition, the concepts of artificial intelligence and their applications in robotics will also be discussed and assessed.

301065.1 Advanced Routing

Credit Points 20 **Level** 7

Special Requirements

Students must be enrolled in the online courses Master of Advanced Networking or any other postgraduate UWS program where this unit can be taken as an unspecified elective and where there are sufficient credit points available in the study program. Students must have access to the internet and appropriate hardware and software for online study.

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As a Cisco Academy, UWS can offer students the opportunity to study the Cisco Certified Network Professional course Implementing Cisco IP Routing (ROUTE). This online unit will provide the knowledge, understanding and skills to deploy and manage a range of internal and external routing protocols for a large scale internetwork using Cisco equipment. Students will be expected to undertake individual research to contextualise Cisco in the broader networking environment. The unit provides hands-on lab experience via Netlabs™. If students successfully complete this unit they can progress to CCNP ROUTE certification.

300596.3 Advanced Signal Processing

Credit Points 10 **Level** 7

Assumed Knowledge

Engineering mathematics, circuit theory, signals and systems.

Equivalent Units

300200 - Signal Processing 1

Special Requirements

Students must be enrolled in a postgraduate course

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This unit covers the principles and techniques in signal processing. The subject matter includes advanced topics in discrete-time signals and systems, the z-transform and its applications in signal processing, advanced topics in the sampling of continuous-time signals, FIR and IIR filter design, filter structures, and the discrete Fourier transform and its computation. Students develop skills of analysing and designing digital signal processing systems.

301026.1 Advanced Smart Grids and Distributed Generation

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course

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This unit is designed to model, analyse and control of newly developing areas of distributed generation and smart grids. The unit will cover modelling, control, simulation and protection of such systems. The unit will also cover the impacts of renewable sources and power electronics on the operation of smart grids and micro-grids. The unit will also cover environmental and economic impacts of such systems.

301013.1 Advanced Statistical Hydrology

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course

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This unit covers at-site flood frequency analysis, regional flood frequency analysis, trend analysis of hydrological data, linear regression analysis and multivariate statistical techniques to solve advanced hydrological problems.

301115.1 Advanced Statistical Methods

Credit Points 10 **Level** 7

Prerequisite

301113.1 Programming for Data Science AND **301114.1** The Nature of Data

Corequisite

301044.1 Data Science

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit. Access to a computer is required.

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There has been a significant trend away from simple statistical models for complex and Big Data. Advanced Statistical Methods is a technical unit that looks at computer intensive statistical techniques for modelling complex data. Students will learn about methods including Density Estimation, the Expectation-Maximisation (EM) algorithm, Bayesian models and Markov-Chain Monte-Carlo (MCMC) methods, enabling them to apply sophisticated statistical tools in a Data Science setting.

300594.4 Advanced Structural Analysis

Credit Points 10 **Level** 7

Assumed Knowledge

Students 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

Special Requirements

Students must be enrolled in a postgraduate course

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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.

301021.1 Advanced Thermal and Fluid Engineering

Credit Points 10 **Level** 7

Assumed Knowledge

Fundamental knowledge of fluid mechanics, theory of thermodynamics, knowledge of heat transfer including conduction, convection.

Special Requirements

Students must be enrolled in a postgraduate course

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This unit covers fundamental principles in the thermal and fluid engineering. While the main focus will remain on incompressible fluids, effects of compressible fluids will also be discussed. The contents of this unit include fluid mechanics, thermodynamics and heat transfer. Students will learn the engineering applications of thermal and fluid principles.

301009.1 Advanced Timber Structures

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course

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This unit enables students to gain an in-depth knowledge into timber structures based on Australian Standards. Design of timber beams, floors, columns and connections will be introduced with a focus on the use of plywood, round timbers, glue-laminated timber and structural laminated veneer lumber.

300694.3 Advanced Topics in ICT

Credit Points 10 **Level** 7

Prerequisite

301005.1 Professional Practice and Communication

Special Requirements

Students must be enrolled in a postgraduate course. Students in 3698 Master of Information and Communications Technology (Advanced) or 3699 Master of Information and Communications Technology must be enrolled in or have passed 301004 Research Preparation in Post Graduate Studies before enrolling in this unit.

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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. Social networking on the Internet is facilitated by the latest developments such as Facebook, YouTube and MySpace. Artificial Intelligence is increasingly intertwined with the decisions we make every day. 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 has led to initiatives such as Semantic Web and Linked Data. Mashups mix data from disparate sources to enable users to work more efficiently. 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 echelons 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. This unit consists of three Topics selected each semester. Assessment will be by a series of discussion paper assignments where students will show they have met the unit learning outcomes.

300252.3 Advanced Topics in Networking

Credit Points 10 **Level** 7

Assumed Knowledge

Students should be familiar with the fundamentals of computer networking. In particular, students should have a good understanding of the OSI model, the TCP/IP protocol suite, and current Internet and networking technologies. Therefore, it is strongly advised that 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

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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.

301045.2 Advanced Topics in User System Interaction

Credit Points 10 **Level** 7

Incompatible Units

300570 - Human-Computer Interaction; 300901 - Human-Computer Interaction (Advanced)

Special Requirements

Students must be enrolled in 3698 Master of Information and Communications Technology (Advanced), 3699 Master of Information and Communications Technology, 3700 Graduate Diploma in Information and Communications Technology, 3701 Graduate Certificate in Information and Communications Technology or 2761 Master of Business Administration.

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The domain of User System Interaction or also known as Human Computer Interaction (HCI) dictates that IT graduates must be able to develop and evaluate interfaces that not only look professional but are usable, functional and accessible. This post graduate unit also examines HCI as a field of research and discusses novel areas of research in the area. Students in this unit will be required to complete a research project alongside a literature review document both of which comprise of content that is of a standard of being able to be considered for publication and/or presentation in a HCI conference or journal.

301017.1 Advanced Waste Management

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course

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This unit covers sources identification and characterisation of solid and hazardous waste generated from the community. Sustainable management of waste incorporating minimisation, recycle, recovery and disposable options is discussed. Also, atmospheric pollutants and their control, greenhouse gases and their impact on climate change are examined.

301016.1 Advanced Water and Wastewater Treatment

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course

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The unit focuses on design of conventional and emerging water and wastewater treatment unit processes using fundamental science and hydraulic engineering principles. The focus is on practical design. The student will be exposed to emerging water and wastewater treatment processes and its applications through research.

300595.3 Advanced Water Engineering

Credit Points 10 **Level** 7

Assumed Knowledge

Exposure to basic hydraulics and engineering hydrologic principles.

Incompatible Units

300766 Hydrology; 300983 Surface Water Hydrology

Special Requirements

This is a specialised unit in a specialist discipline in Master of Engineering program. Students must be enrolled in a post-graduate engineering program undertaking a Civil Engineering specialisation.

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This unit introduces advanced principles of engineering hydrology as it pertains to the surface water component of the hydrologic cycle. Students are exposed to floodplain analysis techniques. The focus is on practical engineering solutions to issues originating from catchment development. Students are exposed to commonly used hydraulic and hydrologic software packages to delineate flooded areas resulting from such developments.

401063.1 Allergic Sciences

Credit Points 20 **Level** 7

Assumed Knowledge

Must have completed a medical degree (MBBS, MBChB or equivalent qualification) and be practising as a clinician.

Equivalent Units

400988 - Allergic Sciences 1 AND 400989 - Allergic Sciences 2

Special Requirements

Students must be enrolled in 4689 - Graduate Certificate in Allergic Diseases. Students must be practising medical practitioners and be able to access a specialist Immunology and Allergy clinic. Students will need to attend the ASCIA

Annual Scientific Meeting and annual Macarthur Series in Immunology/Allergy and take part in the specific program run for students of this program. Students will need a computer and internet access to use the e-learning platform vUWS at <https://vuws.uws.edu.au/>. Skype software will be required to participate in online group discussions.

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This unit will consist of eight online modules dealing with the basic science of allergic disease. The modules will cover Immunology, Allergic Skin Disease, Food Hypersensitivity, Food Related Gastrointestinal Disease and Anaphylaxis, Allergic Airways Disease, Allergic Rhinoconjunctivitis, Drug and Insect Allergy, and Paediatric Allergy. These modules will provide a sound basis for later clinical experiences. Support will be available from an experienced Clinical Immunologist and Allergist. Students will need to attend the Australasian Society of Clinical Immunology and Allergy (ASCI) Annual Scientific Meeting and the annual Macarthur Series in Immunology/Allergy and take part in the specific program run for students of this program.

200499.3 Alternative Solutions for Bushfire Prone Areas

Credit Points 10 **Level** 7

Assumed Knowledge

Students must have prior knowledge of bushfire behaviour, planning, building and bushfire fighting and emergency management.

Prerequisite

200457.3 Bushfire Behaviour AND **200458.2** Building in Bushfire Prone Areas AND **300708.3** Planning and Development Control AND **200500.2** Bushfire Fighting OR **300948.1** Fire Technology and Engineering Principles

Corequisite

200459.2 Emergency Management for Bushfire Prone Areas

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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.

200499.5 Alternative Solutions for Bushfire Prone Areas

Credit Points 10 **Level** 7

Assumed Knowledge

Students must have prior knowledge of bushfire behaviour, planning, building and bushfire fighting and emergency management.

Prerequisite

200457.3 Bushfire Behaviour AND **200500.2** Bushfire Fighting AND **200458.2** Building in Bushfire Prone Areas AND **300708.3** Planning and Development Control AND **300948.1** Fire Technology and Engineering Principles

Incompatible Units

200459 Emergency Management for Bushfire Prone Areas

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit.

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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.

401175.1 Analytic Approaches in Epidemiology

Credit Points 10 **Level** 7

Assumed Knowledge

Introductory skills in epidemiology, including measures of disease frequency and association, epidemiologic study designs, and principles of bias and confounding.

Special Requirements

Must be enrolled in a post-graduate course.

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This unit extends the basic principles of epidemiology introduced in 401076 'Introduction to Epidemiology' and equips students with practical analytical skills to design and conduct epidemiological studies. The unit considers the principle models of causation and analytical approaches to epidemiological study design and analysis. Students will use causal diagrams and evidence from the literature to develop analytic strategies for specific study designs, develop practical skills in calculating and interpreting measures of association and effect modification, and be introduced to principles and strategies for quantitative bias analysis.

401167.1 Applied Research in Health Care

Credit Points 10 **Level** 7

Equivalent Units

400200 - Applied Nursing Research

Special Requirements

Students must be enrolled in a Postgraduate course

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Research is a necessary undertaking toward the continued development of nursing, midwifery and health science and practice. This unit prepares students for undertaking or

participating in research in the clinical setting. It also seeks to prepare students to consider higher degree research opportunities. Students will explore the various theoretical underpinnings of research as well as develop a clear understanding of various research designs, data collection methods, sampling techniques and data analysis.

400856.1 Approaches to Epidemiology

Credit Points 10 **Level** 7

Equivalent Units

HC812A - Approaches to Epidemiology

Special Requirements

Students must be enrolled in 4569 Master of Primary Health Care, 4694 Master of Primary Health Care, 4570 Graduate Diploma in Primary Health Care, 4695 Graduate Diploma in Primary Health Care, 4696 Graduate Certificate in Primary Health Care, 4722 Master of Nursing or 4723 Graduate Diploma in Nursing.

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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.

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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.

301046.1 Big Data (PG)

Credit Points 10 **Level** 7

Assumed Knowledge

Basic programming skills in any programming language and working knowledge in elementary probability and statistics, including the concepts of random variables, basic probability distributions, expectations, mean and variance.

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"Big data" is the label for the ever-increasing gigantic amount of data with which humanity has to cope. The availability of data and the development of cloud computing architectures to process and analyse these data have made data analytics a central tool in our endeavours. This unit will introduce students to the realm of "big data", covering the important principles and technologies of retrieving, processing and managing massive real-world data sets. It is designed to provide the basic techniques required by any discipline that needs to make sense out of the growing amount of data, and to equip students with the knowledge and key set of skills set to be competitive in the growing job market in the analytics field.

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

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: 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.

401088.1 Bioscience for Midwifery Practice

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in 4697 Graduate Diploma in Midwifery and can only be undertaken by a registered nurse employed in a participating NSW Health Local Health District facility in the position of a midwifery student.

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This unit provides students with an understanding of the biological and physiological aspects of human reproduction including the menstrual cycle, fertilisation and embryology, pregnancy, labour, birth and the early postnatal weeks. Emphasis will be placed on normal maternal anatomy and physiology of pregnancy, labour and birth and the postnatal period. It will include fetal growth and development,

adaptation of the newborn and growth and development to six weeks of age.

300713.3 Building Engineering

Credit Points 10 **Level** 7

Equivalent Units

EN808A - Building Engineering

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit.

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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.

300711.3 Building Fire Services

Credit Points 10 **Level** 7

Assumed Knowledge

Building surveying, fire safety engineering and related disciplines.

Equivalent Units

PE806A - Building Fire Services

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit.

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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.

200458.3 Building in Bushfire Prone Areas

Credit Points 10 **Level** 7

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit.

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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.

400846.3 Building Organisational Capacity in Health Care

Credit Points 10 **Level** 7

Equivalent Units

400778 - Leadership and the Development of Organisational Capacity in Health Care

Special Requirements

Students must be enrolled in a postgraduate course.

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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.

300947.2 Building Regulations

Credit Points 10 **Level** 7

Assumed Knowledge

This unit assumes that the student has undertaken coursework in building construction, building surveying, engineering, architecture or a related area or has the relevant AQF qualification and gained basic building regulation knowledge by working in the construction industry in an appropriate capacity for at least four years.

Equivalent Units

300719 - Fire and Building Regulations

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit.

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This unit introduces the role and functions of the building surveyor and the National Construction Code of Australia (NCCA). The topics include building legislation, NCCA general provisions, structure and philosophy. Students are required to understand the objectives, the function statements and the performance requirements of various sections of Volume One of NCCA. The concept of performance based approach is discussed and compared with the prescriptive approach. The content covers the relationship between research in the development of building codes and the role played by approval/certifying authorities in building assessment and approval. Legal obligations of building surveyors, their tasks of assessment, enforcement and documentation are also explained.

300716.3 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

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit.

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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.

200457.4 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.

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit.

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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.

200500.3 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

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit.

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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.

401083.1 Capstone Experience in Health Care

Credit Points 20 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course and have successfully completed 60 credit points at Level 7.

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This unit offers a range of options for students to integrate, extend and reflect on the professional knowledge and skills gained through their masters level studies. It will provide a framework within which students can explore professionally relevant situations. Students will have the opportunity to nominate, plan and execute a capstone experience relevant to their professional interests. In doing so, students will develop a professional portfolio or e-portfolio that will incorporate the work undertaken during the degree studies and extend to include a critical reflection of their graduate capacity and professional development.

400972.2 Child and Family Health Practice: Supporting Growth and Development

Credit Points 10 **Level** 7

Assumed Knowledge

Students require basic knowledge of infant and child health at an undergraduate level, augmented with clinical experience as a general Registered Nurse or Registered Midwife.

Equivalent Units

400207 - Childhood in Child and Family Health Nursing, 400829 - Child and Family Health Nursing: Supporting Child Growth and Development

Special Requirements

Due to clinical placement requirements for this unit, students must be enrolled in 4682 Master of Child and Family Health (Karitane) or 4683 Graduate Certificate in Child and Family Health (Karitane). Patient safety issues are associated. Students must complete the NSW Health Special Requirements for clinical practicum attendance. At present these include: Prohibited Employment Declaration prior to 1 June 2010 or a Working with Children Check Student Declaration after 1 June 2010, 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, Adult Health Immunisation Schedule. NSW Ministry of Health may request additional documents according to policy changes. Students outside NSW are expected to meet any other state requirements for clinical placement

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This unit provides the student with knowledge of the theories of child development and the foundational knowledge and skills to be applied in the screening, surveillance and promotion of health and well-being of young children and families. This includes current immunisation schedules and use of evidence-based developmental screening tools. Content will focus on the normal physical, social and emotional growth and development of young children (0-5 years). The importance of the early years in brain development including infant-parent attachment will be linked to an exploration of child behaviour, sleep and settling, play and safety issues. The child and family health nurses' role in supporting families experiencing infant sleep and settling difficulties and behaviour problems will be addressed. The application of knowledge gained in this unit will be applied through a 40 hr clinical placement in a primary level child and family health facility.

400971.1 Child and 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), 4713 Master of Child and Family Health (Karitane), 4714 Graduate Diploma in Child and Family Health (Karitane) or 4715 Graduate Certificate in Child and Family Health (Karitane).

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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.

401089.1 Childbirth in the Australian Context

Credit Points 20 **Level** 7

Special Requirements

Students must be enrolled in 4697 Graduate Diploma in Midwifery and be a registered nurse employed in a participating NSW Health Local Health District facility in the position of a midwifery student. Students must have access to the internet and a computer.

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This unit provides students with the knowledge to work, using a primary health care approach, with women and their families during childbirth including the transition to parenthood. Emphasis will be placed on the biological, psychosocial and cultural aspects of the pregnancy, birth and the postnatal period and understanding of the role of the midwife in maintaining a woman and family focus within a continuity of care model. The neonatal period will also be examined. Childbirth in our culturally diverse maternity health system will be explored, investigated, analysed and discussed with a specific focus on Aboriginal and Torres Strait Islander peoples. This will include the history of Aboriginal and Torres Strait Islander peoples and how events in history have impacted on their health and birthing practices. Experiences of women from other countries and cultures will be examined.

401137.1 Chronic and Complex Disorders in Chinese Medicine

Credit Points 10 **Level** 7

Incompatible Units

400687 - Chinese Medicine Specialties AND 400572 - Dermatology in Chinese Medicine

Special Requirements

Students must be enrolled in 4716 Master of Chinese Medicine (or Master of Health Science (Traditional Chinese Medicine) and/or Master of Health Science (Acupuncture)

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This unit will enable practitioners to extend their clinical reasoning skills to chronic and complex conditions seen in contemporary Chinese Medicine clinical practice. The unit will analyse specific cases and conditions which present a range of complex and contradictory signs and symptoms making diagnosis and treatment challenging. Senior practitioners of both acupuncture and Chinese herbal medicine will present their own clinical experience and assist students to understand their diagnostic and treatment processes.

401064.1 Clinical Allergy

Credit Points 20 **Level** 7

Assumed Knowledge

Must have completed a medical degree (MBBS, MBChB or equivalent qualification) and be practising as a clinician.

Prerequisite

400988.1 Allergic Sciences 1 AND **400989.1** Allergic Sciences 2 OR **401063.1** Allergic Sciences

Equivalent Units

400990 - Clinical Allergy 1, 400991 - Clinical Allergy 2

Special Requirements

Students must be enrolled in 4689 Graduate Certificate in Allergic Diseases. Students must be practising medical practitioners and be able to access a specialist Immunology and Allergy clinic. Such clinics are located in accredited teaching hospitals in the Australian and New Zealand public health systems. Students must undergo routine employment screening and checks according to hospital policy and meet institutional requirements for honorary clinicians before they can attend the clinic.

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This unit will consist of 50 hours of supervised consultation of patients with allergic disease within the setting of a specialist Immunology and Allergy clinic. Students will be under the supervision of experienced Clinical Immunologists and Allergists and will develop their skills in the diagnosis and management of allergic diseases. Students will need to attend the Australasian Society of Clinical Immunology and Allergy (ASCIA) Annual Scientific Meeting and the annual Macarthur Series in Immunology/ Allergy and take part in the specific program run for students of this program.

401130.1 Clinical Application of Classical Chinese Herbal Medicine

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in 4716 Master of Chinese Medicine (or 4675 Master of Health Science (Traditional Chinese Medicine) and/or 4678 Master of Health Science (Acupuncture).

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This unit presents the origin, development and features of classical Chinese herbal medicine (Jing Fang), and reveals their pharmacological and clinical outcomes based on the latest clinical observation and research. This unit will appeal to practitioners seeking to extend and deepen their knowledge and clinical skills with Chinese herbs and to students embarking on research in this area. The classical texts contain deep insights on Chinese herbs and formulae for a range of conditions. Selective herbal formulae from the Treatise on Cold Pathogenic Diseases (Shanghan Lun) and the Synopsis of Golden Chamber (Jingui Yaolue) are explored in depth to demonstrate the clinical applications.

401131.1 Clinical Applications of Classical Acupuncture

Credit Points 10 **Level** 7

Equivalent Units

400578 - Advanced Acupuncture

Special Requirements

Students must be enrolled in 4716 Master of Chinese Medicine (or 4675 Master of Health Science (Traditional Chinese Medicine) and/or 4678 Master of Health Science (Acupuncture)

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This unit presents the origin, development and features of classical acupuncture and reveals the clinical outcomes based on the latest clinical observation and research. This unit will appeal to practitioners seeking to extend and deepen their knowledge and clinical skills with traditional acupuncture and to practitioners embarking on research in this area. Ancient acupuncture theories and techniques will be taught with a focus on their application to contemporary practice based on latest research and on the different theoretical approaches in the design of acupuncture point prescriptions.

400993.2 Clinical Minimally Invasive Gynaecological Surgery 1

Credit Points 30 **Level** 7

Special Requirements

Students must be advanced trainee in Obstetrics and Gynaecology undertaking a fellowship at Blacktown Hospital. Students 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.

401057.2 Clinical Minimally Invasive Gynaecological Surgery 2

Credit Points 30 **Level** 7

Prerequisite

400993.2 Clinical Minimally Invasive Gynaecological Surgery 1

Special Requirements

Students must be advanced trainees in Obstetrics and Gynaecology undertaking a Fellowship in Minimally Invasive Gynaecological Surgery at Blacktown Hospital or other accredited site. Students 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 2 of the program.

401136.1 Clinical Oncology and Chinese Medicine

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in 4716 Master of Chinese Medicine (or 4675 Master of Health Science (Traditional Chinese Medicine) and/or 4678 Master of Health Science (Acupuncture).

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This unit is focused on the clinical application of Chinese herbal medicine (CHM) and acupuncture in the

management of cancer. Today, cancer is one of the leading causes of death and disease burden. Survival rates for many types of cancer have improved in recent years and long-term survival challenges accepted practices in cancer care and management. This unit explores application of Chinese medicine to the management of cancer, through the ancient wisdom in the classic literature recourses and contemporary clinical practice and research. The unit addresses the commonly used strategies, approaches and roles of Chinese medicine at different stages of cancer as well as the use of Chinese medicine as a supplementary therapy for common types of cancer.

401133.1 Clinical Placement

Credit Points 20 **Level** 7

Prerequisite

401132.1 Women's Health in Chinese Medicine OR
401134.1 Musculoskeletal Health in Chinese Medicine OR
401136.1 Clinical Oncology and Chinese Medicine OR
401137.1 Chronic and Complex Disorders in Chinese Medicine

Special Requirements

Students must be enrolled in 4716 Master of Chinese Medicine. Require National Police Check, Working with Children Check and the first aid certificate.

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This unit provides 4 weeks of full-time (or part-time equivalent) clinical placement with a choice of clinical training in the defined specialty areas (women's health, musculoskeletal health, mental and neurological disorders, oncology, or chronic and complex diseases). The clinical placement is with experienced specialist practitioners provided in conjunction with the Beijing University of Chinese Medicine in China or by an approved alternative arrangement with the student and limited by available opportunities.

400830.3 Clinical Practice: Infant and Child Nutrition and Feeding

Credit Points 10 **Level** 7

Special Requirements

Clinical requirements for this course preclude students other than those enrolled in 4682 Master of Child and Family Health (Karitane), 4713 Master of Child and Family Health (Karitane), 4683 Graduate Certificate in Child and Family Health (Karitane), 4714 Graduate Certificate in Child and Family Health (Karitane) or 4715 Graduate Certificate in Child and Family Health (Karitane) from taking this unit. Patient safety issues are associated. Students will need to have completed the NSW Health Special Requirements for clinical practicum attendance. At present these include: Prohibited Employment Declaration prior to 1 June 2010 or a Working with Children Check Student Declaration after 1 June 2010, 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, Adult Health Immunisation Schedule. NSW Ministry of Health may request additional documents according to policy changes. Students outside NSW are expected to meet any other state requirements for clinical placement.

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This unit 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 professional 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 knowledge gained in this unit will be consolidated through an 80 hour clinical placement in a primary, secondary or tertiary child and family health facility.

401139.1 Clinical Supervision in Health Care

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course, and have access to the internet and a computer.

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This unit aims to provide students with foundational knowledge related to clinical supervision. Clinical supervision is a supportive formal process which enables health care professionals to develop and improve practice, thus potentially improving outcomes for services and service users. Students will explore various models and theories which underpin clinical supervision, and the principles of effective supervision, including legal, ethical and professional considerations. Students will be encouraged to develop skills in self-awareness and reflective practice and to apply these skills to enhance professional growth and outcomes for service users.

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 educators and clinicians for their role in clinical education through critical appraisal of their scope of practice, competence and professional practice environment. Students will identify and operationalise key priorities for learning and teaching in their organisation and address these by 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 in transforming practices and workplaces.

400974.1 Clinical Teaching for Learning

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course

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This unit prepares educators, clinical facilitators and clinicians for their role in clinical teaching and learning. Students will identify learner needs and create and initiate evidence based teaching interventions and assessment strategies. Theoretically informed, experiential strategies will enable students to develop their expertise as clinical teachers and assessors in the workplace.

301042.1 Cloud Computing

Credit Points 10 **Level** 7

Assumed Knowledge

Basic knowledge of networked and computer systems.
Basic programming skills.

Special Requirements

Students must be enrolled in a postgraduate course.

Cloud computing has become a driving force for information technology over the past several years, and it is hinting at a future in which we won't compute on local computers, but on centralised facilities operated by third-party compute and storage utilities. Governments, research institutes, and industry leaders are rushing to adopt Cloud Computing to solve their ever-increasing computing and storage problems arising in the Internet Age. This unit provides fundamental knowledge and understanding of the Cloud computing architecture and application. Students will build knowledge of Cloud computing and distributed systems and learn about the development trends of distributed applications and e-research. Students will learn about virtualization and service-oriented architecture and their role in the Cloud computing architectures.

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 4569 Master of Primary Health Care or 4694 Master of Primary Health Care.

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 course.

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.

401091.1 Complex Care

Credit Points 10 **Level** 7

Prerequisite

401089.1 Childbirth in the Australian Context AND
401090.1 Midwifery Practice 1

Corequisite

401093.1 Midwifery Practice 2

Special Requirements

Students must be enrolled in 4697 Graduate Diploma in Midwifery and be a registered nurse employed in a participating NSW Health Local Health District facility in the position of a midwifery student. Students must have access to the internet and a computer.

This unit provides students with knowledge of complex conditions that may arise during pregnancy, labour, birth and the postnatal period for the woman or her newborn/s. Emphasis will be placed on the biological and physiological aspects of these conditions. In addition, issues surrounding infertility and reproductive technologies available to women will be explored. The unit also integrates physiological, psychosocial and cultural aspects relating to a woman experiencing a complex pregnancy, labour, birth or post birth period. The role of the midwife in maintaining partnerships with women even when childbearing experiences are complex will be discussed and critically analysed. In addition this unit includes critical analysis of ethical aspects affecting midwifery and maternity care.

200826.1 Contemporary People Management

Credit Points 10 **Level** 7

Equivalent Units

46518 - Human Resource Management, 200718 - Human Resource Management

Special Requirements

Students must be enrolled in a postgraduate Business course.

The unit serves as an introduction to human resource management for those considering careers in employment relations and those who will potentially have people management responsibilities. HR processes and practices are studied in contexts and with a consideration of stakeholders' interests, leading to an appreciation of the contribution of human resource management to organisational success. Students will evaluate particular

approaches to human resource management through analysing real-world cases and practical activities.

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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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 and 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.

401178.1 Controversies in Epidemiology

Credit Points 10 **Level** 7

Prerequisite

401076.1 Introduction to Epidemiology OR **401173.1** Introduction to Clinical Epidemiology

Special Requirements

Students must be enrolled in a post-graduate course.

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This unit offers students an opportunity to synthesise theories and methodologies from epidemiology. It highlights current controversies and practices in epidemiology. Students attend weekly presentations on topics related to content area interests, and other relevant seminars. Students will convene with faculty to reflect on and critique components of research presentations relevant to the students' interest and to the contemporaneous topics being covered in the core epidemiology curriculum. Course assignments involve critical appraisal of conceptual and methodological issues presented in the seminars, and related issues relevant to student's own research.

401082.1 Cultural and Social Diversity in Health Care

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course.

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This unit encourages students to investigate and discuss the concepts of health and illness in the context of cultural and social diversity. The unit promotes the attainment of critical knowledge and core principles necessary for students to become holistic, culturally and socially sensitive and appropriately adaptable when meeting the health needs of Aboriginal and Torres Strait Islander people, other marginalised and vulnerable groups including refugees and those from LGBTI community, and people from other diverse cultural and social backgrounds. A case study approach provides a framework for students to explore the impact of different attitude and value systems relating to the health of peoples in Australia.

401179.1 Data Management and Programming for Epidemiology

Credit Points 10 **Level** 7

Assumed Knowledge

High school mathematics (arithmetic, formulas and algebra, reading graphs). Basic computer competency and basic programming skills.

Prerequisite

401077.1 Introduction to Biostatistics

Special Requirements

Must be enrolled in a post-graduate course

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Modern epidemiology deals with ever increasing volumes of data and complexity of analysis. This course is aimed at equipping students with effective practices for managing data and programme code and ensuring the security of their data. Students will be taught the fundamentals of managing code and data in a revision control system as well as good programming practices and techniques which can form a basis for a robust, repeatable and test-driven research methodology. Programming instruction and

exercises will use the SAS and R languages, and SQL databases.

301044.1 Data Science

Credit Points 10 **Level** 7

Assumed Knowledge

Basic Statistics, Computer Programming

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The explosion of data in the internet age opens up new possibilities for agencies and business to better serve and market to its customers. To take full advantage of these opportunities requires the ability to consolidate, manage and extract information from very large diverse data sets. In science, data sets are growing rapidly, with projects routinely generating terabytes of data. In this unit we examine the software tools and analytic methods that underpin a successful Data Science Project and gain experience in big data analytics.

301015.1 Deep Foundations

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course

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This unit covers advanced analysis and design criteria for deep foundations. Both statically and dynamically loaded deep foundations are covered including the site investigation methods and field testing methods adopted in practice for determining integrity and load carrying capacity. Appropriate computer software will be introduced to carry out the deep foundation design according to the Australian Standards.

301050.1 Disaster and Emergency Management (PG)

Credit Points 10 **Level** 7

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit.

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This unit consists of project based studies that explore how human societies prepare for and respond to disasters and emergencies. The unit uses case studies to investigate the historical practice of preparation, prevention, response and recovery strategies for community safety during times of critical incidents. The unit will facilitate improved understanding by developing scenarios of impending issues such as natural disasters and man made emergencies. Focus will be on Australian national and State coordination arrangements for disaster planning including the comprehensive approach to emergency management. Students will need to attend a 5 day workshop and undertake a group presentation and report as well as an exercise in Incident Control System principles at a workshop.

401079.1 Dissertation

Credit Points 40 **Level** 7

Assumed Knowledge

Core (or foundational) units associated with their Masters program, ideally in relevant research design and practice related disciplines.

Corequisite

401076.1 Introduction to Epidemiology AND **401077.1** Introduction to Biostatistics

Special Requirements

Students must be enrolled in a post-graduate course and have a GPA of 5 or greater. If students are enrolled in the Master of Public Health or Master of Health Science, students must have enrolled in, or completed 401076 'Introduction to Epidemiology' and 401077 'Introduction to Biostatistics'. Students must also have an approved Masters Dissertation Proposal before enrolling. Students must submit a proposal no longer than 3 pages comprising the following: 1. Proposed title 2. Background and rationale 3. Research objectives 4. Research plan (including study design, data sources, and analytic strategy) 5. Expected outcomes and benefits 6. Ethical implications 7. Budget and how research costs are to be met (if required) 8. Timeline 9. SSH Supervisor endorsement. Approval of the Dissertation Proposal must be provided by the relevant Director of Academic Programs to ensure that the project meets the expected scale and scope of a 40 credit point Dissertation.

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This unit requires students to complete a substantial piece of independent research, including research planning, study design, data collection and analysis, and interpretation. Dissertation projects are developed in consultation with staff who possess similar research interests and relevant research experience. Results and conclusions are expected to be of a publishable standard, and students may wish to submit their work for examination in a form suitable for publication in the peer-reviewed literature (with supplementary material as appropriate).

200425.4 Economics

Credit Points 10 **Level** 7

Equivalent Units

51265 Economics (PG)

Special Requirements

Students must be enrolled in a postgraduate Business course.

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This unit presents a broad overview of economics and the way economic activity, institutions and regulations shape social and business outcomes, knowledge that is critical for any student in a business-related discipline. Students will reflect critically on the key economic processes, theories and ideas. We study the way economics defines growth and wellbeing and the economic theories of income determination and business cycles that shape macroeconomic policy. Students will form perspectives on globalisation, trade, colonisation and development and the

causes of, and solutions to, inequalities between Indigenous and non-Indigenous Australians. In the microeconomic component of the unit, we study the way economics understands and models individuals and the consumer, production and firms, markets and market structures, the role of government intervention and regulation, environmental outcomes and policy to control processes of economic power.

300717.3 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)

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit.

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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.

200459.3 Emergency Management for Bushfire Prone Areas

Credit Points 10 **Level** 7

Assumed Knowledge

Bushfire behaviour, planning, building and bushfire fighting units

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit.

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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.

401058.1 Endometriosis

Credit Points 10 **Level** 7

Special Requirements

Students must be advanced trainees in Obstetrics and Gynaecology undertaking a Fellowship in Minimally Invasive Gynaecological Surgery at Blacktown Hospital or other accredited site. Students 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 endometriosis at commencement. This unit will extend their knowledge in theoretical and practical terms so that they have a solid foundation for developing their skills at minimally invasive surgery for endometriosis.

401177.1 Environmental Epidemiology

Credit Points 10 **Level** 7

Prerequisite

[401076.1](#) Introduction to Epidemiology

Special Requirements

Must be enrolled in a post-graduate course

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Environmental Epidemiology is the study of the environmental causes of ill-health and disease with a view to prevention. It is a discipline that has changed significantly over time, more recently becoming concerned with complex systemic change such as global warming. Environmental Epidemiology encompasses a broad range of activities, from exposure assessment to adaptation planning, implementation and evaluation. The course aims to equip students with the knowledge and skills to understand and critically appraise evidence from the relevant literature, to design a study suitable for exposure and vulnerability assessment, and to develop appropriate health policy.

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 will study the fundamental concepts and principles of epidemiology and biostatistics and will be given the opportunities through exercise and tutorials to apply these concepts and principles to published public health literature. The unit is designed to give students the skills to interpret and critically evaluate public health literature and to equip the students with the skills for public health research. 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.

401174.1 Epidemiology of Non-Communicable Diseases

Credit Points 10 Level 7

401092.1 Essentials of Best Practice in Midwifery

Credit Points 10 Level 7

Equivalent Units

400082 - Essentials of Best Practice in Midwifery

Special Requirements

Students must be enrolled in 4697 Graduate Diploma in Midwifery and be a registered nurse employed in a participating NSW Health Local Health District facility in the position of a midwifery student. Students must have access to the internet and a computer.

This unit provides students with the opportunity to critically evaluate and apply evidence-based approaches 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. In addition, students will have the opportunity to examine leadership development and styles within the midwifery profession. Students are encouraged to become critical consumers of evidence relevant to midwifery practice and leadership and to appreciate the process of practice development and practice change for midwifery leadership roles.

400975.1 Ethics in Health Research

Credit Points 10 Level 7

Special Requirements

Students must be enrolled in a postgraduate course.

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.

401168.1 Evidence Based Health Care

Credit Points 10 Level 7

Assumed Knowledge

A basic knowledge of research methods at undergraduate level plus basic nursing knowledge and clinical nursing experience.

Equivalent Units

400206 - Evidence Based Nursing

Special Requirements

Students must be enrolled in a postgraduate course

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 health care 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.

401129.1 Evidence Based Practice in Chinese Medicine

Credit Points 10 Level 7

Incompatible Units

400567 - Evidence Based Practice in Chinese Medicine 1, 400568 - Evidence Based Practice in Chinese Medicine 2

Special Requirements

Must be enrolled in 4716 - Master of Chinese Medicine, 4675 - Master of Health Science (Traditional Chinese Medicine) or 4678 - Master of Health Science (Acupuncture)

This unit will introduce and develop the concepts and principles of evidence-based practice as applied to Traditional Chinese Medicine (TCM) and explore specific aspects of research development. Furthermore, this unit will focus on the clinical applications of such research-based evidence and highlight integrative methods combining TCM and biomedical diagnostics and disease management. Students will gain an understanding of the complexities, practicality, and applied methodologies used in research to establish the validity and reliability of TCM theories, diagnostics and interventional techniques in addition to the appropriateness of various outcome measures for research and clinical practice. This unit will provide students with a practical skillset designed to facilitate location, evaluation, integration, and application of scientific research evidence in clinical practice whilst also preparing students for development of research proposals in subsequent units such as Research Protocol Design & Practice.

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.

In 2015, this unit is replaced by 401168 - Evidence Based Health Care. 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.

200821.2 Financial Reports for Decision Making

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate Business or Information and Communications Technology course.

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This unit focuses on developing the ability to use accounting information, as extracted from financial reports, to assist with managerial decision making. Students will gain financial literacy through developing an understanding of the information contained in financial reports and applying this information to practical decisions. This unit emphasises the function of both financial and management accounting in measuring, processing and communicating information useful for decision making.

300709.3 Fire Engineering 1 (Fire Dynamics)

Credit Points 10 **Level** 7

Assumed Knowledge

Physics, chemistry, engineering mathematics.

Equivalent Units

EN806A - Fire Engineering 1 (Fire Dynamics)

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit.

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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.

300710.3 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)

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit.

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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 conservation 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.

300718.3 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)

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit.

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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.

301048.1 Fire Engineering Science

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in 3705 Master of Fire Safety Engineering, 3706 Graduate Diploma in Fire Safety Engineering or 3707 Graduate Certificate in Fire Safety Engineering.

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This unit aims to enhance students' knowledge of the fundamental principles of physics, including heat and mass transfer, fluid mechanism and thermodynamics, which govern the natural phenomena associated with fires. The unit also covers properties of materials, basic mathematics and numerical methods for students to become familiar with quantitative analysis of fire dynamics and structural response. In addition, students will learn probability and risk concepts in fire safety engineering. This is a bridging unit for students who are admitted to the Graduate Certificate and Graduate Diploma in Fire Safety Engineering without an engineering or physical science background. It lays the foundation for further studies in fire safety engineering courses.

300948.2 Fire Technology and Engineering Principles

Credit Points 10 **Level** 7

Assumed Knowledge

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.

Incompatible Units

300712 - Fire Technology Principles, 300714 - Fire Engineering Principles

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit.

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The unit introduces students to the basic principles of fire behaviour and fire safety design 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, responses of fire safety devices, building fire resistance, response of building occupants, fire safety engineering design and assessment methodology. The unit provides the basis for understanding fire safety engineering and the techniques and tools used in fire safety engineering.

301118.1 Genomic Data Science

Credit Points 10 **Level** 7

Prerequisite

301044.1 Data Science AND **301115.1** Advanced Statistical Methods

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit.

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There has been an explosion of data from biological sources in recent years. The study of genomes, from bacterial through to human, and the relationship to disease is becoming an important application area for Data Science. In this unit students will study the application of Data Science to Genome Science.

200848.2 Governance, Ethics and Social Entrepreneurship

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate Business or Information and Communications Technology course.

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There is a growing need for communities and not-for-profit organisations to maintain a degree of organisational and social sustainability, without recourse to philanthropy, government, or other sources of aid. This unit adopts business and entrepreneurial principles to identify and explain the management of a social venture, with a view to ensuring organisational and social sustainability. The unit provides an understanding of governance and ethical practice to support social outcomes.

401059.1 Gynaecological Surgery Ergonomics

Credit Points 10 **Level** 7

Special Requirements

Students must be advanced trainees in Obstetrics and Gynaecology undertaking a Fellowship in Minimally Invasive Gynaecological Surgery at Blacktown Hospital or other accredited site. Students must be enrolled in 4690 M Surgery in Advanced Gynaecological Surgery

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Students undertaking this unit develop their knowledge in the practical aspects of the ergonomic use of laparoscopic equipment to reduce fatigue and improve patient safety.

400418.4 Health Advancement and Health Promotion

Credit Points 10 **Level** 7

Corequisite

401076.1 Introduction to Epidemiology AND **401077.1** Introduction to Biostatistics

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.

400837.3 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 a postgraduate course.

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This unit examines health and socio political issues in aged care within a social capital framework. Social constructs and contexts of ageing are explored and issues of social and economic disadvantage are examined. Equity and access to health care services and the experiences of older people within these services are also highlighted. The role of health professionals and managers in actively engaging in health and social policy debate for ethically just care and services for older people is 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.

Special Requirements

Students must be enrolled in a postgraduate course.

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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.

400836.2 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 4569 Master of Primary Health Care, 4694 Master of Primary Health Care, 4570 Graduate Diploma in Primary Health Care, 4695 Graduate Diploma in Primary Health Care, 4696 Graduate Certificate in Primary Health Care, 4722 Master of Nursing or 4723 Graduate Certificate in Nursing.

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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 grandparents 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.

301047.1 ICT Practicum

Credit Points 0 **Level** 7

Assumed Knowledge

A broad background knowledge in ICT discipline (i.e. equivalent to that obtained after completing two-three years of ICT/Computing)

Prerequisite

301005.1 Professional Practice and Communication

Special Requirements

Students must be enrolled in 3698 Master of Information and Communications Technology (Advanced) or 3699 Master of Information and Communications Technology.

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Students will undertake 120 hours full-time or part-time equivalent industry placements as a Work Integrated Learning (WIL) component required to be completed by students for successful completion of MICT and MICT-Advanced courses. Students will work in an external organisation in Australia or within a department/division within UWS carrying out tasks related to ICT. This provides students real-world experience ICT industry in Australia. Students can nominate an external organisation of their choice. Students with substantial post-qualification work experience in Australia maybe eligible for advanced standing for this unit.

301027.1 Industrial Experience (PG)

Credit Points 0 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course

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Students will undertake 12 weeks full time (37.5 hours per week) employment (or part time equivalent) to obtain relevant workplace experience in Engineering companies under the supervision of professional engineers in one company or more which will give the student a solid grounding in the Key Program of engineering which they have chosen to pursue.

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

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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.

300515.3 Instrumentation and Measurement (PG)

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course

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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.

300769.3 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

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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.

301103.1 Interpreting Building Regulations (Residential Buildings)

Credit Points 10 **Level** 7

Special Requirements

Only students enrolled in the Master of Building Surveying, Graduate Diploma in Building Surveying, Graduate Certificate in Building Surveying, Master of Bushfire Protection, Graduate Diploma in Bushfire Protection or Graduate Certificate in Bushfire Protection can enrol in this unit.

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This unit provides students with an introduction to and sound working knowledge of the prescriptive provisions of the Building Code of Australia (BCA), associated Standards and codes, statutory interpretation as it applies residential buildings applicable to building surveying and bushfire protection. This unit will develop a sound knowledge of the Building Code of Australia – Volume 2, Building Profession Act 2005 and other associated legislation. Residential building work includes work under the Home Building Act 1989, which involves the construction of a dwelling, and alterations or additions to a dwelling. It also will relate to repairing, renovating, decorating or applying protective treatment to a dwelling. The unit applies to residential buildings and associated structures and includes the

evaluation and interpretation of performance requirements, classification of buildings according to BCA criteria, limitations of the referenced documents (BCA – Volume 2 clause 1.1.2) and strategies for compliance. Students will need to relate the objectives of the BCA and the purpose of its respective provisions in relation to construction of residential buildings and their evaluation and documentation.

401077.1 Introduction to Biostatistics

Credit Points 10 **Level** 7

Assumed Knowledge

High school mathematics (arithmetic, formulas and algebra, reading graphs)

Special Requirements

Students must be enrolled in a postgraduate course to enrol in this unit

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Most professions in the health sciences need to read and interpret statistics relating to individual health status, interpret health risks in communities, and engage in the evaluation of interventions, or impact of health policies or programs. Many public health practitioners are actively involved in surveillance, quantitative research and/or evaluation. This unit provides students with the fundamental skills they need to analyse and interpret results from quantitative data collections. Content includes descriptive statistics, undertaking comparisons between groups, quantifying associations between variables, and statistical power. The unit is highly applied with the main focus being on interpretation and appraisal of statistical results and conducting analyses using statistical software.

401173.1 Introduction to Clinical Epidemiology

Credit Points 10 **Level** 7

Assumed Knowledge

A background in health care is desirable

Special Requirements

Must be enrolled in a post-graduate course

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This unit aims to impart the principles of population based (epidemiologic) evidence to the understanding of variations in the outcome of illness and the reasons thereof (Clinical Epidemiology) thereby providing the framework for finding the best answers to "real world" questions about clinical practice and health care. Individuals taking this course (who usually have a health care background) acquire the basic skills required to understand the fundamental questions about the effectiveness of clinical therapies, usefulness of screening and diagnostic tools, prognosis and disease causation and gain the skills required of effective EBM practitioners.

401076.1 Introduction to Epidemiology

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course

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Epidemiology is the study of the distribution and determinants of disease and other health-related conditions in populations, and the application of this study to the control of health problems. Epidemiology encompasses a broad range of activities fundamental to the health sciences. The course is aimed to equip students with the ability to understand and critically appraise evidence from the health sciences used in the formulation of clinical interventions, assessments of population disease burden, and development of health policy. Students will be taught the fundamental concepts and principles of epidemiology and will be given the opportunities through exercises and tutorials to apply these concepts and principles to case studies from current epidemiological research and practice.

300260.1 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.

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.

401060.1 Laparoscopic Adnexal Surgery

Credit Points 10 **Level** 7

Special Requirements

All students must be advanced trainees in Obstetrics and Gynaecology undertaking a Fellowship in Minimally Invasive Gynaecological Surgery at Blacktown Hospital or other accredited site. Students undertaking this unit must be enrolled in 4690 M Surgery in Advanced Gynaecological Surgery.

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Students undertaking this unit will have a detailed knowledge of open adnexal surgery 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 adnexal surgery.

400994.2 Laparoscopic Hysterectomy

Credit Points 10 **Level** 7

Special Requirements

Students must be an advanced trainee in Obstetrics & Gynaecology 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 4569 Master of Primary Health Care or 4694 Master of Primary Health Care.

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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.

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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 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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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.

300597.3 Master Project 1

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge in one of the fields in engineering, construction, information technology, data science or a related discipline.

Equivalent Units

300189 - Master of Engineering Specialist Reading, 200327 - Built Environment Project, 200328 - Built Environment Research Project

Special Requirements

Students must be enrolled in a postgraduate course

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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 one of the fields of engineering, construction, information technology or data science. Students will be required to define research objectives and scope, establish research methodology and prepare a research plan.

300598.4 Master Project 2

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge in one of the fields in engineering, construction, information technology, data science or a related discipline.

Corequisite

300597.3 Master Project 1

Equivalent Units

300188 - Master of Engineering Project, 200328 - Built environment Research Project

Special Requirements

Students must be enrolled in a postgraduate course

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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 one of the fields of engineering, construction, information technology or data science. Students will acquire problem solving skills in this unit.

301018.1 Mechanical System Design

Credit Points 10 **Level** 7

Assumed Knowledge

The students are assumed to have a good understanding on basics of mechanical design, fundamentals and advanced topics in mechanics of materials, fundamentals on fluid mechanics and heat transfer and thermal dynamics.

Special Requirements

Students must be enrolled in Master of Engineering or Graduate Certificate in Engineering course. Essential Equipment: Engineering analysis package – SolidWorks available in SCEM computer labs.

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This unit advances students understanding on product design and development of machine components and assemblies using systems engineering approaches. The unit covers a review on the design of main components of machinery to ensure their functionality, strength and durability, which includes drive components - gears, shafts, belt drives, and bearings, and structural components - welds and treaded fasteners. The machine assembly design is delivered based on systems engineering. Academic skills on research and communication are ensured to be achieved through conducting systems engineering approached-based mechanical system design projects.

300600.3 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

Special Requirements

Students must be enrolled in a postgraduate course

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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.

401135.1 Mental and Neurological Disorders and Chinese Medicine

Credit Points 10 **Level** 7

Incompatible Units

400688 - Mental Health in Chinese Medicine, 400689 - Neurological Disorders in Chinese Medicine

Special Requirements

Students must be enrolled in either 4716 – Master of Chinese Medicine, 4717 – Graduate Diploma of Chinese Medicine, 4675 – Masters of Health Science (Traditional Chinese Medicine), or 4678 – Master of Health Science (Acupuncture)

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This unit will enable practitioners to extend their understanding of Chinese Medicine management of a range of mental health conditions and neurological disorders. The clinical focus is on the Chinese Medicine diagnosis and management of these disorders and integration with the orthodox biomedical approaches to disorders that are common in the community. Chinese Medicine treatment will focus on acupuncture and Chinese herbal medicine treatments. Students will learn to apply Chinese Medicine's unique understanding and contribution to the rehabilitation of those who have suffered from disabling psychological/psychiatric and neurological diseases.

400217.3 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.

Special Requirements

Students must be enrolled in 4654 Graduate Diploma in Nursing (Mental Health), 4719 Master of Mental Health Nursing, 4720 Graduate Diploma in Mental Health Nursing or 4721 Graduate Certificate in Mental Health Nursing.

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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.

400773.4 Mental Health for Communities

Credit Points 10 **Level** 7

Assumed Knowledge

Students are expected to have knowledge and understanding of mental health / mental health concerns and be able to relate it to clinical nursing practice for individuals and their families.

Special Requirements

Students must be enrolled 4694 Master of Primary Health Care, 4695 Graduate Diploma in Primary Health Care, 4673 Master of Mental Health Nursing (Nurse Practitioner), 4654 Graduate Diploma in Nursing (Mental Health), 4719 Master of Mental Health Nursing, 4720 Graduate Diploma in Mental Health Nursing or 4735 Master of Nursing (Professional Studies).

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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.

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.

Special Requirements

Students must be enrolled in the Graduate Diploma in Nursing (Mental Health), 4719 Master of Mental Health Nursing, 4720 Graduate Diploma in Mental Health Nursing or 4721 Graduate Certificate in Mental Health Nursing.

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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 4654 Graduate Diploma Nursing (Mental Health), 4719 Master of Mental Health Nursing, 4720 Graduate Diploma in Mental Health Nursing or 4721 Graduate Certificate in Mental Health Nursing.

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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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From 2015 students should take 401080 - Research Protocol Design and Practice. In this unit postgraduate students develop a proposal for a research study in an area of interest, drawing upon their knowledge and experiences from other units in their program of study. Students learn how to apply research methods to a variety of research situations and questions; to understand how research questions are developed and answered empirically through suitable choice of research methodology, design and method; and how research findings are validated and communicated. The unit is taught through self-paced, self-directed learning. Class contact is three days of workshops, in the first and second half of the session.

401087.1 Midwifery as a Profession

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in 4697 Graduate Diploma in Midwifery and be a registered nurse employed in a participating NSW Health Local Health District facility in the position of a midwifery student. Students must have access to the internet and a computer. Students are required to wear closed shoes (covering heels and instep). Students who do not wear the correct clothing will be excluded from clinical practicum sessions.

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This unit introduces students to the profession of midwifery. It explores: the meaning of birth; the historical and social contexts of birth; and the role of the midwife through the continuum, from early beginnings to its current legal and professional standing. Within a legal and ethical framework, the Australian College of Midwives (ACM) philosophy and role of the midwife will be explored. Students will also be required to discuss and critically analyse current models of midwifery care.

401090.1 Midwifery Practice 1

Credit Points 10 **Level** 7

Corequisite

401089.1 Childbirth in the Australian Context

Special Requirements

Students must be enrolled in 4697 Graduate Diploma in Midwifery and be a registered nurse employed in a participating NSW Health Local Health District facility in the position of a midwifery student. Students must have access to the internet and a computer. Students are required to wear closed shoes (covering heels and instep). Students who do not wear the correct clothing will be excluded from clinical practicum sessions.

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In this unit students will develop skills for the provision of midwifery care across the childbirth continuum through working with women in a continuity of care model and also practice experience in designated maternity practice areas. Using a woman-centred, primary health care model, students will commence recruitment and follow 10 women throughout their pregnancy, labour, birth and for up to six weeks post birth; and under supervision will provide midwifery care to these women. The unit commences with a one week intensive workshop, to expose the students to an elementary level of understanding and application of midwifery care in the antenatal clinic, antenatal ward, birth unit, postnatal ward and special care nursery in preparation for their employment. Concepts introduced during this intensive week will be covered with more complexity during future subsequent weekly workshops.

401093.1 Midwifery Practice 2

Credit Points 10 **Level** 7

Prerequisite

401089.1 Childbirth in the Australian Context AND
401090.1 Midwifery Practice 1

Corequisite

401091.1 Complex Care

Special Requirements

Students must be enrolled in 4697 Graduate Diploma in Midwifery and be a registered nurse employed in a participating NSW Health Local Health District facility in the position of a midwifery student. Students must have access to the internet and a computer. Students are required to wear closed shoes (covering heels and instep). Students who do not wear the correct clothing will be excluded from clinical practicum sessions.

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During this unit students will continue to gain practical experience in designated clinical areas and follow their 10 women throughout pregnancy, labour, birth and the postnatal period in a continuity of care model. They 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. In addition, they will work with women with complex health issues. This unit provides students with the knowledge to collaborate with all health professionals and includes assessing procedures for managing obstetric emergencies; transferring women or newborns with complex health issues; and assessing referral pathways.

401094.1 Midwifery Practice 3

Credit Points 20 **Level** 7

Prerequisite

401093.1 Midwifery Practice 2

Special Requirements

Students must be enrolled in 4697 Graduate Diploma in Midwifery and be a registered nurse employed in a participating NSW Health Local Health District facility in the position of a midwifery student. Students must have access to the internet and a computer. Students are required to wear closed shoes (covering heels and instep). Students who do not wear the correct clothing will be excluded from clinical practicum sessions.

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In this unit students will consolidate their knowledge and midwifery skills in preparation for their role as a midwife. They will continue to practice in designated clinical areas and follow through their 10 continuity of care experiences. Students will have completed a professional portfolio and reflected on how they can identify and plan for personal professional development and leadership as midwives, including the professional development needs of others. Students will be assessed across the four competency domains of legal and professional practice, midwifery knowledge and practice, midwifery as primary health care and reflective and ethical practice.

301043.2 Mobile Computing

Credit Points 10 **Level** 7

Special Requirements

Successful completion of 40 credit points and the following pre-requisites 301038 - Programming Proficiency and

300977 - Systems Analysis and Database Management Systems or for 2761 - Master of Business Administration Information and Communications Technology specialisation: 300693 - Web Technologies.

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This unit teaches technologies and programming languages for developing applications on common mobile platforms, such as Android and iOS. Students will learn skills for developing programs on the above platforms, along with in-class sample applications that highlight platform - specific implementation details.

301066.1 Multilayer Switching

Credit Points 20 **Level** 7

Special Requirements

Students must be enrolled in the online courses Master of Advanced Networking or any other postgraduate UWS program where this unit can be taken as an unspecified elective and where there are sufficient credit points available in the study program. Students must have access to the internet and appropriate hardware and software for online study.

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As a Cisco Academy, UWS can offer the Cisco Certified Network Professional unit 'Implementing Cisco IP Switched Networks (SWITCH)'. This online unit will provide the knowledge, understanding and skills to deploy reliable, scalable and secure multilayer-switched campus LANs using Cisco equipment. Students will be expected to undertake individual research to contextualise Cisco in the broader networking environment. The unit provides hands-on lab experience via Netlabs™. Successful completion of this unit should enable students to progress and complete the CCNP SWITCH certification.

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.

401134.1 Musculoskeletal Health in Chinese Medicine

Credit Points 10 **Level** 7

Incompatible Units

400574 - Musculoskeletal Health in Chinese Medicine 1,
400575 - Musculoskeletal Health in Chinese Medicine 2

Special Requirements

Students must be enrolled in 4716 Master of Chinese Medicine (or Master of Health Science (Traditional Chinese Medicine) and/or Master of Health Science (Acupuncture). First Aid certificate.

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This unit will enable practitioners to develop an in-depth understanding of the diagnosis and management of musculoskeletal conditions with acupuncture and Chinese herbal medicine. This unit presents a systematic approach to the assessment of musculoskeletal disorders using Traditional Chinese Medicine (TCM), the application of specific medical tests and includes a focus on common musculoskeletal disorders, sports injuries and rehabilitation. Musculoskeletal Health in Chinese Medicine provides a strong specialist clinical focus on the management of musculoskeletal health disorders with acupuncture and Chinese herbal medicine.

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 performance of any modern organization is heavily dependent on their networked systems and how these systems are managed. The increasing demand for ICT services and the huge growth of the Internet have resulted in large heterogeneous networks. This unit addresses the issues relevant to management of such networks and the services that run on them. It covers the principles and current practices pertinent to integrated management of networks, systems, and services. The unit helps the students to understand relevant protocols, standards, and standards organizations. It also introduces them to trends and key research areas in management of networked systems.

301068.1 Network Security

Credit Points 20 **Level** 7

Prerequisite

301065.1 Advanced Routing AND **301066.1** Multilayer Switching

Special Requirements

Students must be enrolled in the online courses Master of Advanced Networking or any other postgraduate UWS program where this unit can be taken as an unspecified elective and where there are sufficient credit points available in the study program. Students must have access to the internet and appropriate hardware and software for online study.

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With organisations increasingly dependent on their information systems, there is a greater need to ensure that the underlying network infrastructure being used by these systems is secure. UWS is a leading Cisco Academy and this Cisco Certified Networking Associate (CCNA) Security module will give students a foundation to prepare for the Certified Information Systems Security Professional (CISSP) qualification. This online unit will provide the knowledge, understanding and practical experience to manage secure communication across a large-scale internetwork using Cisco equipment. Students will be expected to undertake individual research to contextualise their Cisco study in the broader security management environment.

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.

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, 4681 - Master of Health (Research Studies)/PhD, 4698 - Master of Health Science, 4700 - Graduate Diploma in Health Science, 4701 - Graduate Certificate in Health Science, 4702 - Master of Public Health, 4704 - Graduate Diploma in Public Health

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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.

301067.1 Optimising Networks

Credit Points 20 **Level** 7

Prerequisite

301065.1 Advanced Routing AND **301066.1** Multilayer Switching

Special Requirements

Students must be enrolled in the online courses Master of Advanced Networking or any other postgraduate UWS program where this unit can be taken as an unspecified elective and where there are sufficient credit points available in the study program. Students must have access

to the internet and appropriate hardware and software for online study.

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As a Cisco Academy, UWS can offer this Cisco Certified Network Professional course, 'Troubleshooting and Maintaining Cisco IP Networks' (TSHOOT). Cisco Systems are worldwide leaders in networking technologies, for telecommunication, corporate and private networking. This online unit will provide the knowledge, understanding and skills to troubleshoot communication on large-scale data networks using Cisco equipment and extend your research skills. Students will be provided with hands-on lab experience via Netlabs™. Students who successfully complete this module can progress and complete the CCNP TSHOOT certification with Cisco.

401081.1 Organisational Governance and Performance Management

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course

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This unit will provide an understanding of the key elements of the National Health Reform in Australia. There will be a strong focus on the management of delivering public hospital services under the evolving reform. The unit will cover the establishment of service level agreements, outlining the purchaser – provider model and exploring its impacts and deliverables. The unit will also explore how performance should be monitored and reported. Finally, it will examine the clinical and business governance models that facilitate implementation of such major reforms. Links between quality and performance will also be explored.

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 Partnership 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 professional. In this unit participants will also study how adults learn, and the key skills in understanding and promoting the group process. Working in partnership extends to other professional and agencies, enabling students to develop skills in professional collaboration.

401061.1 Pelvic Anatomy

Credit Points 10 **Level** 7

Special Requirements

Students must be advanced trainees in Obstetrics and Gynaecology undertaking a Fellowship in Minimally

Invasive Gynaecological Surgery at Blacktown Hospital or other accredited site. Students 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 pelvic anatomy at commencement. This unit will extend their knowledge in theoretical and practical terms so that they have a solid foundation for developing their skills at minimally invasive surgery.

401062.1 Pelvic Floor Function and Dysfunction

Credit Points 10 **Level** 7

Special Requirements

Students must be advanced trainees in Obstetrics and Gynaecology undertaking a Fellowship in Minimally Invasive Gynaecological Surgery at Blacktown Hospital or other accredited site. Students must be enrolled in 4690 Master of Surgery in Advanced Gynaecological Surgery

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Students undertaking this unit will have a good working knowledge of the pelvic floor at commencement. This unit will extend their knowledge in theoretical and practical terms so that they can safely recognise pelvic floor anatomy through the vaginal, abdominal and laparoscopic approach.

400833.3 Perinatal Mental Health

Credit Points 10 **Level** 7

Assumed Knowledge

Fundamental concepts of mental health at undergraduate degree level.

Special Requirements

Students must be enrolled in 4682 Master of Child and Family Health (Karitane) or 4713 Master of Child and Family Health (Karitane). Patient safety issues are associated. Students will need to have completed the NSW Health Special Requirements for clinical practicum attendance. At present these include: Prohibited Employment Declaration prior to 1 June 2010 or a Working with Children Check Student Declaration after 1 June 2010; 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; Adult Health Immunisation Schedule. NSW Ministry of Health may request additional documents according to policy changes. Students outside NSW are expected to meet any other state requirements for clinical placement.

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This unit enables students to explore the complex issues related to parental mental health including; antenatal and postnatal depression and anxiety, substance misuse and domestic violence. Through examination of these complex issues, students will gain knowledge of the risk factors that influence outcomes for infants, children and families. Strategies to promote emotional well being, positive parent child relationships and social support for these families is an essential learning component supported by the concepts of targeted and specialist intervention, and early

intervention. The unit has a 40 hr clinical placement in a secondary or tertiary level child and family health service where in students will gain skills in psychosocial screening for risk factors, vulnerabilities and protective factors and related developmental issues in children.

300196.3 Personal Communication Systems

Credit Points 10 **Level** 7

Assumed Knowledge

Communications Systems. Digital Communications.

Special Requirements

Students must be enrolled in a postgraduate course

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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.

400774.2 Perspectives on Nursing

Credit Points 10 **Level** 7

Equivalent Units

400234 - Nursing Knowledge: Concepts, Models and Theories

Special Requirements

Students must be enrolled in a postgraduate course.

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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.

300708.4 Planning and Development Control

Credit Points 10 **Level** 7

Equivalent Units

101634 - Planning and Environmental Regulation

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit.

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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 three 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.

101634.2 Planning and Environmental Regulation

Credit Points 10 **Level** 7

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This unit provides students with an understanding of the planning process from both a State government and Local Government perspective. The unit will cover concepts related to the planning process, focusing on development control and regulation issues, planning instruments and development applications. It will also address the areas of planning and environment law, with specific reference to the legal framework that regulates planning and development in NSW.

301049.1 Planning for Bushfire Prone Areas

Credit Points 10 **Level** 7

Prerequisite

300708.3 Planning and Development Control

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit.

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This unit describes the relevant planning issues for bushfire prone areas and the measures that can be implemented to ensure appropriate development in these areas. A knowledge and understanding of the planning, design and construction of the urban form is important if we are to manage the risk of bushfire on the community. It is also fundamental in our understanding of the management of development for bushfires and the necessary infrastructure for bushfire suppression and property protection in bushfire prone areas. Topics include conceptual planning issues, determining bushfire prone areas, bushfire and planning legislation, strategic and regional planning for bushfire, subdivision, defensible space and construction, design, staging and siting, vulnerable developments, industry and other forms of commercial use, landscaping and maintenance, and water and access.

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 such as social determinants of health. 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.

400995.2 Port Entry

Credit Points 10 **Level** 7

Special Requirements

Students must be advanced trainees in Obstetrics & Gynaecology undertaking a fellowship at Blacktown Hospital. Students must be enrolled in 4690 Master of Surgery in Advanced Gynaecological Surgery

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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

Special Requirements

Students must be advanced trainees in Obstetrics & Gynaecology undertaking a fellowship at Blacktown Hospital. Students must be enrolled in 4690 Master of Surgery in Advanced Gynaecological Surgery

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This unit will facilitate the acquisition of knowledge both practical and theoretical for students to enable them to safely use power modalities in laparoscopic Gynecological surgery.

300197.3 Power System Planning and Economics

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course

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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.

401189.1 Practice of Cardiac Sonography 1

Credit Points 10 **Level** 7

Assumed Knowledge

Applicants for this course must have successfully completed an undergraduate degree in natural and physical sciences or health.

Corequisite

401185.1 Principles of Cardiac Sonography 1

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This unit introduces students to the practice of cardiac sonography. Students will learn how to acquire ultrasound images of the heart, optimise images and make basic echocardiographic measurements. They will also learn how to draw conclusions from the acquired images and measurements and write a report to communicate the findings. These skills will provide students with the foundational framework for assessing cardiac anatomy and function. This unit will involve learning in a practical environment such as in the Western Sydney University Blacktown clinical school and research centre.

401190.1 Practice of Cardiac Sonography 2

Credit Points 10 **Level** 7

Prerequisite

401189.1 Practice of Cardiac Sonography 1

Corequisite

401186.1 Principles of Cardiac Sonography 2

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This unit will build on knowledge and skills developed in Practice of Cardiac Sonography 1. Students will learn about different imaging protocols and employ them in undertaking echocardiographic examinations. Students will have the opportunity to learn and demonstrate essential echocardiographic skills such as image acquisition, measurements, interpretation, report writing and safe practice. Considerable time will be spent in the clinical environment on both observing and undertaking echocardiographic examinations to ensure students' proper development of professional practice.

401191.1 Practice of Cardiac Sonography 3

Credit Points 10 **Level** 7

Prerequisite

401190.1 Practice of Cardiac Sonography 2

Corequisite

401187.1 Principles of Cardiac Sonography 3

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This unit aims to further develop students' understanding of essential aspects of working in a clinical environment and consolidate their imaging skills. Students will learn to identify common adult congenital heart defects and prepare an analytical report to communicate their findings. They will spend considerable time in the clinical environment performing imaging skills and activities independently (as per special requirements).

401192.1 Practice of Cardiac Sonography 4

Credit Points 10 **Level** 7

Prerequisite

401191.1 Practice of Cardiac Sonography 3

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This unit aims to assure that students have gained adequate knowledge and skills to be able to practice competently, confidently and ethically as cardiac sonographers. Care for and communication with patients and colleagues, continual professional development (CPD) and exposure to advanced and leading edge imaging technologies will be given particular emphasis during this unit. Once more, considerable time will be spent in the clinical environment performing imaging skills and activities independently (as per special requirements).

301117.1 Predictive Analytics

Credit Points 10 **Level** 7

Prerequisite

301114.1 The Nature of Data

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit. Access to a computer is required.

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Predictive analytics is the use of data, statistical algorithms and machine-learning techniques to model outcomes based on past data. Industry can use predictive analytics to help optimize their operations and performance. This unit introduces statistical ideas and machine learning techniques covering the predictive analytics process. Some example problems that will be discussed include identifying trends, understanding customers and predicting behaviour, fraud detection, and identifying credit risk.

400412.3 Primary Health Care and its Applications

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in the 4569 Master of Primary Health Care, 4570 Graduate Diploma in Primary Health Care, 4694 Master of Primary Health Care, 4695 Graduate Diploma in Primary Health Care, 4696 Graduate Certificate in Primary Health Care, 4722 Master of Nursing, 4723 Graduate Diploma in Nursing or 4735 Master of Nursing (Professional Studies).

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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.

401185.1 Principles of Cardiac Sonography 1

Credit Points 10 **Level** 7

Assumed Knowledge

Applicants for this course must have successfully completed an undergraduate degree in natural and physical sciences or health.

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This unit introduces students to two key areas of knowledge for cardiac sonographers: 1) cardiac anatomy and physiology, and 2) ultrasound physics. Students will learn about the normal and abnormal anatomy and physiology of the human heart. They will also learn about the essential physical principles that underpin ultrasound imaging. This unit provides an essential basis for future study in the Graduate Diploma in Cardiac Sonography.

401186.1 Principles of Cardiac Sonography 2

Credit Points 10 **Level** 7

Prerequisite

401185.1 Principles of Cardiac Sonography 1

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This unit will build on knowledge from the Principles of Cardiac Sonography 1. Students will utilise their knowledge of normal human anatomy and physiology to learn about abnormal anatomy and physiology underpinning cardiovascular diseases. Students will be exposed to more challenging aspects of imaging technologies such as imaging artefacts, ultrasound safety and alternative imaging modalities. Students will learn via a combination of theoretical and practical activities.

401187.1 Principles of Cardiac Sonography 3

Credit Points 10 **Level** 7

Prerequisite

401186.1 Principles of Cardiac Sonography 2

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This unit will extend the knowledge students have gained from Principles of Cardiac Sonography 2. Students will utilise their knowledge of normal and abnormal cardiac anatomy and physiology to explore congenital and acquired heart lesions. They will examine the connection between systemic diseases and cardiac anatomy and function. They will also learn about case study research skills and apply these skills in conducting a case project on a congenital heart disease, performing basic echocardiographic measurements and analysing these data. The university library's vast teaching and study resources will provide an important means of learning in this unit.

401188.1 Principles of Cardiac Sonography 4

Credit Points 10 **Level** 7

Prerequisite

401187.1 Principles of Cardiac Sonography 3

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This unit aims to assure that students have gained adequate knowledge and skills to be able to practice competently and confidently as cardiac sonographers. Students will learn about more complex heart dis-ease and how to detect them by echocardiography and other imaging modalities. They will further devel-op their research skills and start contributing to the sonographic practice through conducting a case pro-ject and presenting the report to the professional audience. The university library's vast teaching and re-search resources will provide an important means for facilitating learning in this unit.

301104.1 Professional Practice and Building Law

Credit Points 10 **Level** 7

Special Requirements

Only students enrolled in the Master of Buidling Surveying, Graduate Diploma in Building Surveying, Master of Bushfire Protection, Graduate Diploma in Bushfire Protection, Master of Fire Safety Engineering or Graduate Diploma in Fire Safety Engineering can enrol in this unit. Students enrolled in the Master of Building Surveying or Graduate Diploma in Building Surveying must have completed 40 credit points prior to enrolling in this unit.

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This unit provides students with a sound working knowledge of the negligence, administrative law, life safety and proportional liability and statutory interpretation as it applies to building surveying, fire engineering and bushfire protection. The unit studies the codes of professional conduct, ethic, conflict of interest and the rules of evidence. These professions can act as expert witnesses and consequently need to understand codes of professional conduct, ethic, conflict of interest and the rules of evidence. In addition, potential required to brief solicitors or other legal professionals and will ultimately have a duty to the court or tribunal. The unit includes finding and interpreting legislative provisions, tribunal and court decisions and case studies associated with these professions. Moreover, this unit studies the functions that are governed by Administrative law, their actions and decisions of government decision makers, which gives rise to administrative review and duty of care. Under contract law consultant practitioners form legally binding contracts with other related professionals as well as their clients and consequently a sound knowledge of specific contract provisions as applied to these professions is essential.

301005.1 Professional Practice and Communication

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course

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This unit introduces some of the concepts, standards and techniques associated with the current professional practice for engineering and information technology students. These include the various elements of engineering and IT practice, basic knowledge of law of contracts and legal

responsibility, competence in verbal communication and presentations and in reading and writing reports, and an understanding of ethical considerations.

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.

301113.1 Programming for Data Science

Credit Points 10 **Level** 7

Assumed Knowledge

Familiarity with computer software programs such as Excel.

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit. Access to a computer is required.

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The use of computers and computer programming for Data Science is fundamental to the discipline. This introductory unit will briefly cover the use of spreadsheet systems and then will consider programming in the statistical system "R" in detail. Other special purpose languages will also be touched on briefly including SQL (Structured Query Language).

301038.2 Programming Proficiency

Credit Points 10 **Level** 7

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This unit is aimed at the students whose undergraduate study is in a discipline other than computing or information technology. This unit first covers the programming fundamentals on data types, conditional selections and loop structures, and then further develops the problem solving skills through the use of user-defined functions, records, files, as well as the basic concept and techniques of object-oriented programming. A high level programming language is employed to implement all the problem solutions.

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 4673 Master of Mental Health Nursing (Nurse Practitioner). 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.

301004.1 Research Preparation in Post Graduate Studies

Credit Points 10 **Level** 7

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Life is research! This unit introduces students to the nature of research and why it is essential to our today's way of living. What are the current and big questions in research? How to prepare for conducting a research in various areas? What are differences between study, investigation and research? In this unit, the main emphasis will be on

different types of modern research and their methods/ methodologies. It will also encompass various advanced tools that support research, its writing styles, publication channels and research ethics. Key elements of good research design are also introduced as well as the concepts of intellectual property and commercialisation.

401078.1 Research Project

Credit Points 20 **Level** 7

Assumed Knowledge

It is assumed that the student would have completed core (or foundational) units associated with their Masters program, ideally in relevant research design and practice related disciplines. It is also assumed that students would meet a minimum GPA of 5 before being able to enrol in this unit.

Corequisite

401076.1 Introduction to Epidemiology AND **401077.1** Introduction to Biostatistics

Special Requirements

Students must be enrolled in a post-graduate course and have a GPA of 5 or greater. If students are enrolled in the Master of Public Health or Master of Health Science, students must have enrolled in, or completed, 401076 - Introduction to Epidemiology and 401077 - Introduction to Biostatistics. Students must also have an approved Research Project Proposal before enrolling. Students must submit a proposal no longer than 3 pages comprising the following: 1. Proposed title 2. Background and rationale 3. Research objectives 4. Research plan (including study design, data sources, and analytic strategy) 5. Expected outcomes and benefits 6. Ethical implications 7. Budget and how research costs are to be met (if required) 8. Timeline 9. SSH Supervisor endorsement. Approval of the Research Project Proposal must be provided by the relevant Director of Academic Programs to ensure that the project meets the expected scale and scope of a 20 credit point Research Project.

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This unit requires students to complete a substantial piece of independent research, including research planning, study design, data collection and analysis, and interpretation. Research projects are developed in consultation with staff who possess similar research interests and relevant research experience. Results and conclusions are expected to be of a publishable standard, and students may wish to submit their work for examination in a form suitable for publication in the peer-reviewed literature (with supplementary material as appropriate).

401138.1 Research Project and Thesis

Credit Points 60 **Level** 7

Assumed Knowledge

It is assumed that the student would have completed core (or foundational) units associated with their Masters program, ideally in relevant research design and practice related disciplines.

Prerequisite

401129.1 Evidence Based Practice in Chinese Medicine AND **401076.1** Introduction to Epidemiology OR **401077.1** Introduction to Biostatistics

Corequisite

401080.1 Research Protocol Design and Practice

Special Requirements

To enrol in this unit, students must be enrolled in a post-graduate course and have a GPA of 5.0 or greater. Students transferring from the current teaching-out course 4675 Master of Health Science (Traditional Chinese Medicine) and 4678 Master of Health Science (Acupuncture) may be eligible to entry into the unit with 401080 Research Protocol Design and Practice as corequisite subject to individual assessments.

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This unit requires students to complete a substantial piece of independent research in Chinese Medicine including research planning, study design, data collection, analysis and interpretation. Dissertation projects are developed in consultation with staff who possess similar research interests and relevant research experience. Students may wish to submit their work for examination in a form suitable for publication in the peer-reviewed literature (with supplementary material as appropriate).

401084.1 Research Project in Health Care

Credit Points 20 **Level** 7

Prerequisite

400200.2 Applied Nursing Research AND **400975.1** Ethics in Health Research

Special Requirements

Students must be enrolled in a postgraduate course and have successfully completed 60 credit points at Level 7.

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This unit will assist in the further development and maintenance of research culture in health care, and thus enhance the implementation of evidence-based practice. This unit is designed to assist students in applying their research knowledge and skills and provides them with the opportunity to undertake an independent research project and write a dissertation. It is recommended that students interested in undertaking this unit first complete Applied Nursing Research (400200) and Ethics in Health Research (400975) where the dissertation topic will be identified and students will be allocated a supervisor.

401080.1 Research Protocol Design and Practice

Credit Points 10 **Level** 7

Corequisite

401076.1 Introduction to Epidemiology AND **401077.1** Introduction to Biostatistics AND **401129.1** Evidence Based Practice in Chinese Medicine

Equivalent Units

300398 - Methods of Researching

Special Requirements

Students must be enrolled in a post-graduate course. Students must complete any two of the following co-requisite units: 401076 - Introduction to Epidemiology, 401077 - Introduction to Biostatistics, 401129 - Evidence-Based Practice in Chinese Medicine. Students must have use of a personal computer for access to web-based resources and for preparing assignments.

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In this unit postgraduate students develop a proposal for a research study in an area of interest, drawing upon their knowledge and experiences from other units in their program of study. Students learn how to apply research methods to a variety of research situations and questions; to understand how research questions are developed and answered empirically through suitable choice of research methodology, design and method; and how research findings are validated and communicated. The unit is taught through self-paced, self-directed learning. Class contact is three days of workshops, in the first and second half of the session.

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.

401085.1 Scholarship for Practice Change in Health Care

Credit Points 10 **Level** 7

Equivalent Units

400807 - Transforming Nursing Practice

Special Requirements

Students must be enrolled in a postgraduate course, and have successfully completed 60 credit points at Level 7. Students must have access to the internet and a computer.

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The transformation of practice in healthcare 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 transforming practice and improving patient care. The unit aims to enhance scholarly communication skills, provide a vehicle for demonstrating leadership by informing the health professions of innovative solutions for practice change.

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 permission from the Director, Academic Program.

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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.

301041.1 Service Oriented Architecture

Credit Points 10 **Level** 7

Assumed Knowledge

Student must have knowledge related to Web Technology, Objected Oriented programming languages.

Equivalent Units

300437 - XML and Web Services

Special Requirements

Students must be enrolled in a postgraduate course.

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This unit aims to provide students with a deep understanding of SOA, service-orientation paradigm, business processes and Web services as an implementation technology. The course provides students with hands-on experience with implementations of various web service technologies, such as Java XML and Web Service APIs. Students will learn understand the role of as SOA in different contexts and their practical implications in terms of engineering software systems and automating

business processes. Students will master various SOA technologies used for web services and applications.

301116.1 Social Media Intelligence

Credit Points 10 **Level** 7

Assumed Knowledge

Basic algebra and computing skills.

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit. Access to a computer is required.

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Social Media Intelligence presents the theory and practice of extracting and analysing information from social media networks. The aims are to identify properties of social networks, and to make predictions about future events. Topics included will cover areas such as Graph theory, Game theory and Network dynamics and we will identify how these can be used to model and extract information from Facebook and Twitter.

300770.3 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

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit.

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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.

301002.1 Specialised Software Applications

Credit Points 10 **Level** 7

Equivalent Units

300513 - Engineering Software Applications

Special Requirements

Students must be enrolled in a postgraduate course

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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.

401176.1 Statistical Methods in Epidemiology

Credit Points 10 **Level** 7

Assumed Knowledge

High school mathematics (arithmetic, formulas and algebra, reading graphs)

Prerequisite

401077.1 Introduction to Biostatistics

Special Requirements

Must be enrolled in a post-graduate course.

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Statistical ideas are integral to the conceptual basis of epidemiology and provide the tools needed to interpret epidemiological information and conduct epidemiological studies. Most professions in the health sciences need to be able to read and interpret statistics relating to individual and population health status and health risks, and to identify appropriate statistical methods to evaluate interventions, health policies and programs. Many public health practitioners are actively involved in surveillance, quantitative research and/or evaluation. This unit aims to support students to reach a level of proficiency in the selection of appropriate statistical methods to address specific research questions with a given dataset, conduct the selected analysis, interpret the results appropriately and draw valid and insightful conclusions about the research question.

200841.2 Strategic Business Management

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate Business or Information and Communications Technology course.

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This unit critically examines strategic management processes in various business, industry and economic contexts. Students actively participate in experiential learning focussing on strategic leadership, visioning, situation analysis, objective setting and evaluation. Students apply current strategy models and theories to solving industry-specific problems and scenarios. The teaching methods are application-oriented using a variety of engaging technologies and media which simulate real-world strategic problem-solving.

400241.3 Supporting Aged Communities

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course

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The unit aims to analyse the dynamic systems of aged care services, to challenge orthodox strategies for reform in aged care and to identify ways in which primary health care can be employed as a process of change in aged care services.

400838.1 Supporting Individuals and Communities in Crisis

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in 4569 Master of Primary Health Care, 4694 Master of Primary Health Care, 4570 Graduate Diploma in Primary Health Care or 4695 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.

400847.3 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.

Special Requirements

Students must be enrolled in a postgraduate course

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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.

300939.2 Sustainability and Risk Engineering (PG)

Credit Points 10 **Level** 7

Assumed Knowledge

Engineering problem solving skills.

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit.

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Analysis of sustainability with engineering perspective is increasingly becoming important in the modern world. Also, in the future sustainability will include risk engineering. Hence, engineers with in-depth understanding of different tools that can be used for both sustainability and risk analysis will have significant competitive edge in their future career. The main objective of this unit is to introduce different tools available for sustainability and risk analysis in various engineering applications. The content includes renewable/alternative energy systems, energy/resource efficiency, sustainable/green buildings, sustainable transport and infrastructure, sustainable water management, environmental management systems, sustainability reporting, life cycle analysis, probability/reliability theory, risk assessment models, overall system analysis.

301003.1 Sustainable Systems

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course

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This unit seeks to teach the essential tools available to achieve environmental sustainability in various engineering, construction, industrial design professional settings. The unit will particularly focus on the application of the tools and exploration of Australian regulatory and sustainable development practices.

300977.2 Systems Analysis and Database Management Systems

Credit Points 10 **Level** 7

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The main purpose of this unit is to provide students with an opportunity to gain knowledge and experience of developing a business information system in a systematic way. This unit examines the general methodology of systems development life cycle, including different phases and various modeling techniques. The unit specialises in the development of a full systems analysis and design documentation by using system development methodologies, including data analysis and modeling methods. It extensively covers database design techniques where students will use a set of business rules obtained from requirements and use case analysis, and database implementation using a commercial database management system. At the same time, student learning, intercommunication and collaborative working skills are

enhanced by student participation in tutorial presentations and group assignments.

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.

200820.2 The Contemporary Business Environment

Credit Points 10 **Level** 7

Equivalent Units

200783 - The Business Environment

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This unit provides foundational knowledge that is needed to appreciate the complexities involved in managing businesses in an uncertain and complex global setting. Emphasis is placed on the influence of the economic, socio-cultural, political, and technological environments on a business and the need for businesses to adopt a global perspective in formulating and implementing strategic interventions for enhancing competitiveness.

301114.1 The Nature of Data

Credit Points 10 **Level** 7

Assumed Knowledge

Undergraduate degree with some statistical content (1 unit) is useful.

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit. Access to a computer is required.

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This Unit covers concepts of data centric thinking. The main areas discussed are; Populations and Samples; Sampling concepts; Types of Data; Descriptive Methods; Estimation and Inference; and Modelling. The Unit takes a computational and nonparametric approach, before discussing theoretical concepts and Normal distribution theory as large sample approximations.

200825.2 Understanding Contemporary Organisations

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate Business or Information and Communications Technology course.

Understanding Contemporary Organisations is an integrative unit designed to introduce students, who have not previously undertaken a business study program, to the theoretical perspectives offered by the disciplines of business and organisation studies. Students will be engaged in a series of learning activities to develop competency in understanding how people construct organisational structures, processes and practices. Specifically, processes and practices relating to organisational design and structure, marketing, finances and people management will be introduced.

301112.1 Visualisation

Credit Points 10 **Level** 7

Assumed Knowledge

Familiarity with computer software programs, such as Microsoft Office.

Incompatible Units

301109 Visual Analytics

Special Requirements

Only students enrolled in a postgraduate course can enrol in this unit. Access to a computer is required.

This unit introduces the fundamentals and technologies of information visualisation. It covers the major concepts of information visualisation, human-computer perception and methods for visual data analysis. Students will learn the knowledge and skills required for identifying suitable visualisation techniques and tools appropriate for various data types and applications. The unit provides students with opportunities to explore recent research in the visualisation field.

301012.1 Water Resources Systems Analysis

Credit Points 10 **Level** 7

Assumed Knowledge

Discounting techniques, time value of money, equivalence analysis, present worth analysis, annual worth analysis, benefit-cost analysis, net benefit analysis, rate of return. Fluid properties, hydrostatics, open channel flow analysis, pipe network analysis, analysis and design of hydraulic structures, exposure to surface water hydrology and its components, water quality analysis.

Special Requirements

This is a specialised unit in a specialist discipline in the Master of Engineering program. Students must be enrolled in a postgraduate Engineering program undertaking a Civil Engineering specialisation.

Water resources projects are large infrastructure projects requiring huge capital expenditure. In addition, multiple options are usually available to meet the project goals but at different costs and under varying constraints. This unit presents the application of optimisation techniques to select the best project from a list of competing projects. Applications of these techniques to optimally allocate available water resources are discussed. These are presented within the context of maximising the return of investment.

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 offered by the School of Computing, Engineering & Mathematics.

Today organizations extensively rely on web based information systems to market, sell, manage customer relations, and for most of the internal operations. Users are increasingly using mobile devices to interact with this information. Due to rapidly changing business environment these systems need to be designed in away to accommodate the frequent changes. New technologies and frameworks have been developed to support development of large, complex, mobile based, maintainable and evolutionary web systems. In this unit students will study some of these technologies, design methods and frameworks that can be successfully used to engineer such web systems. They will get hands on experience by developing such a system.

300693.3 Web Technologies

Credit Points 10 **Level** 7

This unit covers the technologies required for the construction and maintenance of web pages and web sites. It focuses on the web page and site design, markup languages, client-side technologies such as Cascading Style Sheets and Javascript, as well as server-side technologies such as web servers, database connectivity, and server side scripting. It also includes the use of multi-media, security, access rights, and the exploration of some of the latest technological wonders populated on the Internet. This unit is heavily orientated towards practical experience based on amplifying the theoretical concepts.

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 honours course offered by the School of Computing, Engineering & Mathematics.

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.

401132.1 Women's Health in Chinese Medicine

Credit Points 10 **Level** 7

Incompatible Units

400570 - Women's Health in Chinese Medicine 1 AND
400571 - Women's Health in Chinese Medicine 2

Special Requirements

Students must be enrolled in 4716 Master of Chinese Medicine (or Master of Health Science (Traditional Chinese Medicine) and/or Master of Health Science (Acupuncture)

This unit will enable practitioners to extend their understanding of Chinese Medicine management of a range of women's health conditions. The clinical focus of this unit is on the integration of Chinese Medicine and conventional therapies in the treatment of disorders of the menstrual cycle, obstetric disorders, fertility, menopause 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 and must have successfully completed 60 credit points at Level 7.

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.

401086.1 Writing for Publication

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in postgraduate course and must have successfully completed 60 credit points at Level 7.

This unit is about writing for publication in the scholarly health and welfare literature. Students will investigate: the range of publications available and the media through which they are delivered; the process of publishing, the key people involved and their roles; the means by which quality is assured in the publishing process and the ways publications are rated for quality and impact; and the influence of social networking media on publishing. Specifically, the influence of online publishing will be investigated. Students will also gain experience of writing for publication under the guidance of an experienced editor and colleagues from the publishing industry. The unit is also available as an elective to all Postgraduate students in the University.

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