

Health and Science Schools

Electronic Postgraduate Handbook 2019

Western Sydney University

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Information contained in this electronic handbook is correct at the time of production (May 2019), unless otherwise noted.

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About the Health and Science Schools Electronic Postgraduate Handbook

Sessions and dates

There are two main sessions in 2019: Autumn and Spring. Weeks shown in the dateline refer to the session weeks for these main sessions.

The dateline is available at:

https://www.westernsydney.edu.au/currentstudents/current_students/dates/2019_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 the current year 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, Science & Health, and the Graduate Research School. 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 Cardiac Sonography

4751.1

The Masters in Cardiac Sonography integrates online and on-campus learning activities with students' employed sonography practice. It enables students to develop the theoretical, practical and professional skills, together with the research proficiency required for the advanced practice of cardiac sonography.

Study Mode

Three years part-time

Location

Campus	Attendance Mode
Campbelltown Campus	Part Time External

Accreditation

Accreditation by the Australian Sonographers Accreditation Registry (ASAR) is being sought for this course.

Admission

There are two admission pathways

Applicants without a cardiac sonography qualification

Applicants must have successfully completed an undergraduate degree in natural and physical sciences or health. Applicants with an undergraduate degree in another discipline will be considered for admission if they can demonstrate greater than 12 months full-time work experience in medical imaging (which must be supported with a statement of service for all work experience listed)

Applications (from Australian citizens and holders of permanent resident visas) must be made via the Universities Admissions Centre (UAC). Those who have undertaken studies overseas must provide proof of proficiency in English.

Applicants require a cumulative grade point average (GPA) of 5.0 or greater in their sonography qualification, and must submit a written expression of interest in the research component (final 3 units) of the Masters of Cardiac Sonography.

Applicants must secure a trainee cardiac sonography position (with a minimum of three days imaging per week) for the duration of the course. Written verification must be provided to the university by commencement of the course.

Applicants with an Australian Sonographers Accreditation Registry recognised cardiac sonography qualification

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

Applicants with cardiac sonography qualifications from universities other than Western Sydney University, may apply for recognition of prior learning (RPL) for 60 (50%) of the 120 credit points needed to successfully complete the course. Students granted RPL of 60 credit points must complete Principles of Cardiac Sonography 3 and

Principles of Cardiac Sonography 4, before undertaking Advanced Principles and Practice of Cardiac Sonography, Introduction to Biostatistics and the Research Project in Cardiac Sonography units.

Applicants with cardiac sonography qualifications from Western Sydney University may apply for recognition of prior learning (RPL) for 80 (66%) of the 120 credit points needed to successfully complete the course. Students granted RPL for 80 credit points must complete Advanced Principles and Practice of Cardiac Sonography and Introduction to Biostatistics before commencing the Research Project in Cardiac Sonography.

Applicants must hold a cardiac sonography position (with a minimum of three days imaging per week) for the duration of the course. Written verification must be provided to the university by commencement of the course.

Additional Information

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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.

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.

Course Structure

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

Recommended Sequence

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
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401191.1 Practice of Cardiac Sonography 3

Spring session

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

Year 3

Autumn session

401247.1 Advanced Principles and Practice of Cardiac Sonography
401077.1 Introduction to Biostatistics

Spring session

401248.1 Research Project in Cardiac Sonography

(20 credit point capstone unit)

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. This course is available for domestic students only

Study Mode

Two years part-time.

Location

Campus	Attendance Mode
Campbelltown Campus	Part Time Multi Modal

Accreditation

The Graduate Diploma in Cardiac Sonography has been accredited by the Australian Sonographers Accreditation Registry.

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

Admission to the course requires applicants meet the following criteria.

1. Applicants must have successfully completed an undergraduate degree in natural and physical sciences or health. Applicants with an undergraduate degree in another discipline will be considered for admission if they can demonstrate greater than 12 months full-time work experience in medical imaging (which must be supported with a statement of service for all work experience listed).

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University. Applications made directly to Western Sydney do not have an application fee.

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English.

2. Applicants must secure a minimum of three days a week work (training) in cardiac sonography. Written verification of work (training) must be provided to the university two weeks prior to the commencement of the course.

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.

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

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
Online	Full Time	Multi Modal
Online	Part Time	Multi Modal
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	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.

Note: Mid-year entry is available for students already enrolled at Western Sydney University in the Master of Public Health (MPH) or Master of Health Sciences (MHSc) programs and students from other universities who meet the Admission Criteria and can prove they have satisfactorily completed units equivalent to core units in the Master of Epidemiology.

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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 the 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

A4012.1	Master of Epidemiology - 2 year pathway
A4013.1	Master of Epidemiology - 1.5 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
Online	Full Time	Multi Modal
Online	Part Time	Multi Modal
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	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.

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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 the 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.

Pathway

Year 1

Autumn session

401077.1 Introduction to Biostatistics

Choose one of

401173.1 Introduction to Clinical Epidemiology

401076.1 Introduction to 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

400841.3 A Global Perspective on Social Determinants of Health

400840.3 Communicable Diseases

401178.1 Controversies in Epidemiology

401179.2 Data Management and Programming for Epidemiology

401177.1 Environmental Epidemiology

401174.1 Epidemiology of Non-Communicable Diseases

400967.2 Health Economics and Comparative Health Systems

401173.1 Introduction to Clinical Epidemiology

401080.2 Research Protocol Design and Practice

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
Online	Full Time	Multi Modal
Online	Part Time	Multi Modal
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	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.

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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 the 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 which include the units listed in the recommended sequence below.

Pathway

Year 1

Autumn session

401077.1 Introduction to Biostatistics

Choose one of

401173.1 Introduction to Clinical Epidemiology

401076.1 Introduction to Epidemiology

Choose two of

400841.3 A Global Perspective on Social Determinants of Health

400840.3 Communicable Diseases

401178.1 Controversies in Epidemiology

401179.2 Data Management and Programming for Epidemiology

401177.1 Environmental Epidemiology

401174.1 Epidemiology of Non-Communicable Diseases

400967.2 Health Economics and Comparative Health Systems

401173.1 Introduction to Clinical Epidemiology

401080.2 Research Protocol Design and Practice

401176.1 Statistical Methods in Epidemiology

Master of Medicine (Allergic Diseases)

4753.1

The Master of Medicine (Allergic Diseases) equips medical practitioners in clinical practice with advanced theoretical knowledge and clinical expertise in allergic diseases and core epidemiological research methods. Students will build on and integrate skills through online and face to face learning activities over a three year program. The program will enable students to competently diagnose and manage patients with allergic diseases, and critically appraise new concepts and evidence for clinical and research use. Students will gain the fundamental epidemiological and statistical concepts and skills required to design and conduct studies and pursue further research training in allergic diseases.

Study Mode

Three years part-time

Location

Campus Attendance Mode

Online Part Time Multi Modal

Admission

Applicants must be qualified and registered medical practitioners (doctors) in current clinical practice in Australia or New Zealand. Only local applicants who are citizens or permanent residents of Australia or citizens of New Zealand will be eligible to enrol in this course.

Applicants for the Masters course will follow one of three admission pathways

1. Applicants with no prior postgraduate qualification or training in allergic diseases will enrol through the standard admission pathway.

2. Applicants with a Graduate Certificate in Allergic Diseases qualification from Western Sydney University will enrol through one of two pathways

a) Students who completed the degree between 2012 and 2017 must apply for recognition of prior learning for 40 credit points (Allergic Sciences, Clinical Allergy). If approved, students will be eligible to enrol in Year 2 of the Masters course, and must successfully complete Reflective Clinical Allergy Practice before undertaking successive units (Nutritional Aspects of Allergic Diseases, Mental Health Aspects of Allergic Diseases)

b) Students who completed the degree from 2018 onwards with a minimum credit grade average must apply for recognition of prior learning for 40 credit points (Allergic Sciences 1, Allergic Sciences 2). If approved, students will be eligible to enrol in Year 2 of the Masters course.

3. Applicants with prior postgraduate qualifications or training in allergic diseases from a tertiary institution other than Western Sydney University or an accredited professional organisation (e.g. Royal Australasian College of Physicians) must apply for recognition of prior learning. If approved, students will be eligible to enrol in the Masters course at the level determined by their prior learning.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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.

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.

Special Requirements

Students must supply a certified copy of their medical degree (MBBS, MBChB or equivalent qualification) and current medical registration, and proof of proficiency in English (if medical qualification was obtained overseas) at the time of application. In addition, students for the Graduate Diploma in Allergic Diseases (exit only) and Master of Medicine (Allergic Diseases) must be qualified and registered medical practitioners in clinical practice, and be able to access a specialist Immunology and Allergy clinic.

Course Structure

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

Note: The yearlong unit 401064 Clinical Allergy will consist of 50 hours of supervised consultation of patients with allergic disease within the setting of a specialist Immunology/Allergy clinic. Students will also need to attend the Australasian Society of Clinical Immunology and Allergy (ASCI) Annual Scientific Meeting and the annual MacArthur Series in Immunology and take part in two course-specific workshops.

Recommended Sequence

Year 1

1H session

401249.1 Allergic Sciences 1

2H session

401250.1 Allergic Sciences 2

Students may exit with a Graduate Certificate in Allergic Diseases

Year 2

1H session

for new students:

401251.1 Nutritional Aspects of Allergic Diseases
401064.3 Clinical Allergy

Or

for students with existing Graduate Certificate in Allergic Diseases qualification:

401253.1 Reflective Clinical Allergy Practice

2H session

for all students:

401252.1 Mental Health Aspects of Allergic Diseases

for new students:

401064.3 Clinical Allergy

Or

for students with existing Graduate Certificate in Allergic Diseases:

401251.1 Nutritional Aspects of Allergic Diseases

Students may exit with a Graduate Diploma in Allergic Diseases

Year 3

1H session

401077.1 Introduction to Biostatistics

Choose one of

401173.1 Introduction to Clinical Epidemiology

401076.1 Introduction to Epidemiology

2H session

Choose one capstone unit

400418.4 Health Advancement and Health Promotion

401080.2 Research Protocol Design and Practice

And one alternate unit from the list below

Alternate units

401175.1 Analytic Approaches in Epidemiology

401179.2 Data Management and Programming for Epidemiology

401177.1 Environmental Epidemiology

401174.1 Epidemiology of Non-Communicable Diseases

401176.1 Statistical Methods in Epidemiology

401080.2 Research Protocol Design and Practice

(if not done as capstone unit)

400418.4 Health Advancement and Health Promotion

(if not done as capstone unit)

Graduate Diploma in Allergic Diseases (exit only)

4754.1

The Graduate Diploma in Allergic Diseases is an exit degree for medical practitioners in clinical practice who are enrolled in the Master of Medicine (Allergic Diseases). Students who successfully complete this two year program will have an in depth understanding of the scientific basis and clinical aspects of allergic diseases including mental health and nutrition. Supervised clinical experiences, practical skills workshops and conference attendance will enable students to develop their ability to use theoretical knowledge and diagnostic and therapeutic skills effectively in clinical allergy practice.

Study Mode

Two years part-time

Location

Campus Attendance Mode

Online Part Time Multi Modal

Admission

4754 - Graduate Diploma in Allergic Diseases is an exit award from 4753 - Master of Medicine (Allergic Diseases).

Course Structure

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

Note: The yearlong unit 401064 Clinical Allergy will consist of 50 hours of supervised consultation of patients with allergic disease within the setting of a specialist Immunology/Allergy clinic. Students will also need to attend the Australasian Society of Clinical Immunology and Allergy (ASCI) Annual Scientific Meeting and the annual MacArthur Series in Immunology and take part in two course-specific workshops.

Recommended Sequence

Year 1

1H session

401249.1 Allergic Sciences 1

2H session

401250.1 Allergic Sciences 2

Students may exit with a Graduate Certificate in Allergic Diseases

Year 2

1H session

for new students:

401251.1 Nutritional Aspects of Allergic Diseases
401064.3 Clinical Allergy

Or

for students with existing Graduate Certificate in Allergic Diseases qualification:

401253.1 Reflective Clinical Allergy Practice

2H session

for all students:

401252.1 Mental Health Aspects of Allergic Diseases

for new students:

401064.3 Clinical Allergy

Or

for students with existing Graduate Certificate in Allergic Diseases:

401251.1 Nutritional Aspects of Allergic Diseases

Graduate Certificate in Allergic Diseases

4755.1

The Graduate Certificate in Allergic Diseases is designed for local and international medical practitioners seeking advanced theoretical and technical knowledge about immunological and clinical aspects of allergic diseases. The yearlong, online program will provide students with an in depth understanding of the scientific basis for the diagnosis and treatment of patients with common allergic diseases. Course materials will focus on the latest theories and evidence based information that informs current clinical allergy practice. Students must attend two compulsory written exams as part of the assessment for this unit.

Study Mode

One year part-time

Location

Campus Attendance Mode

Online Part Time Multi Modal

Admission

Applicants must be qualified and registered medical practitioners (doctors). Local and international applicants will be eligible to enrol in this course.

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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.

Student visa holders are not eligible to study this degree. It is available for international students studying offshore (not in Australia), who meet all other admission requirements.

International applicants must apply directly to the 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.

Special Requirements

Students must supply a certified copy of their medical degree (MBBS, MBChB or equivalent qualification) and current medical registration, and proof of proficiency in English (if medical qualification was obtained overseas) at the time of application.

Course Structure

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

Recommended Sequence

Year 1

1H session

401249.1 Allergic Sciences 1

2H session

401250.1 Allergic Sciences 2

Master of Medicine (Pathology)

4750.2

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 1H 2019.

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.

The Masters of Medicine (Pathology) program by coursework is offered to local and international medical graduates who are undertaking specialist training in Anatomical Pathology. It is a 2 year program with four mandatory attendance conference weeks and online learning modules covering both surgical pathology and cytopathology, and is aimed to endow the candidates with the necessary level of diagnostic knowledge which will aid in their successful completion of specialist training in Pathology. Recently qualified pathologists may also find the course useful to consolidate their knowledge and diagnostic skills. The mandatory attendance involves 2 conference weeks per year where the students must attend campus for an intensive study week as well as formative practical sessions.

Study Mode

Two years part-time.

Location

Campus Attendance Mode

Online Part Time Multi Modal

Accreditation

The program is designed to help meet the expectations required to obtain Fellowship to practice as a qualified Anatomical Pathologist either locally or overseas.

Admission

Applicants must have

Completed Bachelor of Medicine/Bachelor of Surgery (MBBS) or equivalent Australian or overseas degree in Medicine AND current employment in a supervised training position in Anatomical Pathology as approved by The Royal College of Pathologist of Australasia (RCPA) or equivalent overseas college. The student must remain in such employment for the 2 year duration of this course.

Or

For applicants who are qualified pathologists, proof of fellowship with Royal College of Pathologist of Australasia (RCPA) or international equivalent and registration with AHPRA or other appropriate regulatory body.

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.

For off-shore international students, IELTS 6.5 overall or equivalent is also required

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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

Year 1

1H session

401227.1 Surgical Pathology 1
401228.1 Cytopathology and Small Biopsy Pathology 1

2H session

401229.1 Surgical Pathology 2
401230.1 Surgical Pathology 3

Year 2

1H session

401231.1 Surgical Pathology 4

401232.1 Cytopathology and Small Biopsy Pathology 2

2H session

401233.1 Surgical Pathology 5
401234.1 Surgical Pathology 6

Master of Medicine (Rural Generalism)

4760.1

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 2019 or later.

The Masters of Medicine (Rural Generalism) aims to enhance rural generalist medical training by providing additional clinical and research skills to post graduate doctors entering rural practice. Students will build on and integrate skills through online and face to face teaching over a two-year program. The program will enable students to examine current rural health policy, develop models of care that support a rural generalist approach and become skilled in managing undifferentiated, common and emergency clinical presentations in rural settings. They will also become proficient in research skills enabling ongoing research in their rural communities.

Study Mode

Two years full-time or four years part-time. One and a half years full time or three years part-time; And one year full time or two years part-time pathways are also available, depending upon entry qualifications (see Pathways listed under Course Structure below).

Location

Campus Attendance Mode

Online	Full Time	Multi Modal
Online	Part Time	Multi Modal

Admission

There are three entry points for the Masters of Medicine (Rural Generalism):

1 - Masters of Medicine (Rural Generalism) 2 year Pathway (160 credit points)

Applicants must have successfully completed an undergraduate degree in science, health, nursing or midwifery.

2 - Masters of Medicine (Rural Generalism) 1.5 year Pathway (120 credit points)

Applicants must have successfully completed an undergraduate degree in medicine and have AHPRA general registration as a medical practitioner.

3 - Masters of Medicine (Rural Generalism) 1 year Pathway (80 credit points)

Applicants must have successfully completed an undergraduate degree in medicine and AHPRA general registration as a medical practitioner And

Hold FACRRM or FRACGP +FARGP; OR; a minimum 7 years' full time equivalent professional experience in rural/ remote health.

Applicants entering at 80 & 120 credit point level must supply a certified copy of their medical degree and current medical registration.

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.

If you hold overseas qualifications from countries where English is not the standard language of instruction, you must provide evidence of English language proficiency. Refer to Western Sydney's English language proficiency requirements on UAC's website.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University. Applications made directly to Western Sydney do not have an application fee.

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.

Special Requirements

Students entering at the 80 or 120 credit point level must supply a certified copy of their medical degree and current AHPRA general registration. All students will require evidence of successful completion of an accredited Advanced Adult Life Support certificate before enrolling in Unit 401271 Critical Care: Skills and Practice.

Course Structure

A4044.1	Master of Medicine (Rural Generalism) - 2 year pathway
A4045.1	Master of Medicine (Rural Generalism) - 1.5 year pathway
A4046.1	Master of Medicine (Rural Generalism) - 1 year pathway

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 recognised 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.

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.

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

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

Graduate Diploma in Person-centred Diabetes Care and Education

4762.1

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 2019.

This clinically focused course is designed for multidisciplinary clinicians who would like to specialise in diabetes clinical care and education. Underpinned by an empowerment approach to Person-centred diabetes care, students will learn about the clinical management of diabetes and how best to support and educate people with diabetes manage their condition and optimise their health. In addition to examining the aetiology, pathophysiology, clinical assessment and management of different types of diabetes, and short and long term complications, this course will explore self-management support at the system, organisational and individual level. This inter-professional course provides the opportunity for the student to learn with, about, and from other health disciplines in delivering diabetes care. The majority of this course is delivered online. However, students must attend a compulsory one week face to face clinical skills workshop and also 40 hours of mandatory clinical practicum. This course is developed and facilitated by experts in clinical diabetes care and diabetes research.

Study Mode

Two years part-time.

Location

Campus	Attendance	Mode
Online	Part Time	Multi Modal

Admission

Applicants must have successfully completed an undergraduate degree in health or behavioural science OR appropriate equivalent professional qualification in a diabetes relevant health profession i.e. general practitioners, registered nurses, dietitians, nutritionist, podiatrists, pharmacists, exercise physiologists, physiotherapists and psychologists OR Certificate IV, or higher, in Aboriginal or Torres Strait Islanders Primary Health Care for Aboriginal Health Workers registered with AHPRA

Or

Have completed the Graduate Certificate in Person-centred Diabetes Care and Education or equivalent qualification accredited by the Australian Diabetes Educators Association

And

Be registered with their professions' national regulatory body.

Or

Have completed at least one year fulltime equivalent work experience in a health profession where they have had the opportunity in providing health care to people with diabetes.

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.

If you hold overseas qualifications from countries where English is not the standard language of instruction, you must provide evidence of English language proficiency. Refer to Western Sydney's English language proficiency requirements on UAC's website. For this course a minimum IELTS Overall Band score 7.0 is required.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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.

Special Requirements

Students must supply a certified copy of their health professional Bachelor degree or professional qualification, registration certification to practice from Australian Health Practitioner Regulation Agency (or their profession's national regulatory body and proof of proficiency in English (if undergraduate qualification was obtained overseas) at the time of application.

Course Structure

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

Recommended Sequence

Part-time

Year 1

Spring session

401284.1	Clinical Practice in Diabetes 1
401285.1	Diabetes Self-Management Support 1: Individuals

Autumn session

401286.1	Clinical Practice in Diabetes 2
401287.1	Diabetes Self-Management Support II: Systems and Organisations

Students may exit at this point with the Graduate Certificate in Person-centred Diabetes Care and Education after the successful completion of 40 credit points of study.

Year 2

Spring session

401173.1	Introduction to Clinical Epidemiology
401288.1	Diabetes in Primary Care

Autumn session

401289.1	Diabetes in the Hospital
401290.1	Diabetes in Paediatrics, Transition and Pregnancy

Graduate Certificate in Person-centred Diabetes Care and Education

4761.1

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 2019.

This clinically focused course is designed for multidisciplinary clinicians who would like to specialise in diabetes clinical care and education. Underpinned by an empowerment approach to Person-centred diabetes care, students will learn about the clinical management of diabetes and how best to support and educate people with diabetes manage their condition and optimise their health. In addition to examining the aetiology, pathophysiology, clinical assessment and management of different types of diabetes, and short and long term complications, this course will explore self-management support at the system, organisational and individual level. This inter-professional course provides the opportunity for the student to learn with, about, and from other health disciplines in delivering diabetes care. The majority of this course is delivered online. However, students must attend a compulsory one week face to face clinical skills workshop and also 40 hours of mandatory clinical practicum. This course is developed and facilitated by experts in clinical diabetes care and diabetes research.

Study Mode

One year part-time.

Location

Campus Attendance Mode

Online Part Time Multi Modal

Admission

Applicants must have successfully completed an undergraduate degree in health or behavioural science OR appropriate equivalent professional qualification in a diabetes relevant health profession, i.e. general practitioners, registered nurses, dietitians, nutritionist, podiatrists, pharmacists, exercise physiologists, physiotherapists and psychologists OR Certificate IV, or higher, in Aboriginal or Torres Strait Islanders Primary Health Care for Aboriginal Health Workers registered with AHPRA.

And

Be registered with their professions' national regulatory body.

And

Have completed at least one year fulltime equivalent work experience in a health profession where they have had the opportunity in providing health care to people with diabetes.

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.

If you hold overseas qualifications from countries where English is not the standard language of instruction, you must provide evidence of English language proficiency. Refer to Western Sydney's English language proficiency requirements on UAC's website. For this course a minimum IELTS Overall Band score 7.0 is required.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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.

Special Requirements

Students must supply a certified copy of their health professional Bachelor degree or professional qualification, registration certification to practice from Australian Health Practitioner Regulation Agency(or their profession's national regulatory body and proof of proficiency in English (if undergraduate qualification was obtained overseas) at the time of application.

Course Structure

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

Recommended Sequence

Part-time

Year 1

Spring session

- 401284.1** Clinical Practice in Diabetes 1
401285.1 Diabetes Self-Management Support 1: Individuals

Autumn session

- 401286.1** Clinical Practice in Diabetes 2

- 401287.1** Diabetes Self-Management Support II: Systems and Organisations

Graduate Diploma in Vascular Sonography

4765.1

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 2019.

The Graduate Diploma in Vascular Sonography provides graduate entry training in vascular ultrasound imaging. It consists of four theoretical and four practical units, with one theoretical and one practical unit per semester for a total of 8 units (4 semesters, 2 years). A blended learning model is used to combine a variety of learning and assessment methods. Learning material is presented via an electronic platform, with students also required to attend a face to face, on-campus training seminar each semester. The training seminars start with four days each semester for the first year, reducing to three in semester 3, and then two days in the final semester. These on-campus seminars expose the students to emerging technologies and training along with fundamental knowledge. For the duration of the course the students will complete mandatory clinical training of a minimum of three days per week for the entire course. While there are 384 hours mandated within each semester (total over course 1536), students will be required continue working outside of the university semesters to meet external accreditation requirements. Upon completion, graduates will have developed the knowledge, skill and professional abilities to practice as vascular sonographers.

Study Mode

Two years part-time

Location

Campus	Attendance	Mode
Campbelltown Campus	Part Time	Internal

Admission

Applicants must have successfully completed an undergraduate degree in natural and physical sciences, or health. Applicants with an undergraduate degree in another field will be considered for admission if they can demonstrate greater than 12 months experience in medical imaging.

Applicants must secure a minimum of 3 days of work (training) in vascular sonography each week for the duration of the course. Written verification of work (training must be provided to the university by commencement of the course.

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.

Additional Information

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the

Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University. Applications made directly to Western Sydney University do not have an application fee.

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local applicants who are applying through the Universities Admissions Centre (AC) 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 qualification must be deemed by the Australian Education International –National office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian qualification in order to be considered by UAC and Western Sydney University.

Special Requirements

Students who complete their clinical training in; - a NSW public hospital must meet the necessary legislative requirements as part of their employment conditions. - a private hospital must meet any special requirements of the hospital which may differ from public institutions, - an organisation outside of NSW will need to comply with the requirements of the relevant state based body

Course Structure

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

Recommended Sequence

Start-year intake

Year 1

Autumn session

401292.1 Principles of Vascular Sonography 1
401293.1 Practice of Vascular Sonography 1

Spring session

401294.1 Principles of Vascular Sonography 2
401295.1 Practice of Vascular Sonography 2

Year 2

Autumn session

401296.1 Principles of Vascular Sonography 3
401297.1 Practice of Vascular Sonography 3

Spring session

401298.1 Principles of Vascular Sonography 4
401299.1 Practice of Vascular Sonography 4

Mid-year intake

Year 1

Spring session

401292.1 Principles of Vascular Sonography 1

401293.1 Practice of Vascular Sonography 1

Autumn session

401294.1 Principles of Vascular Sonography 2
401295.1 Practice of Vascular Sonography 2

Year 2

Spring session

401296.1 Principles of Vascular Sonography 3
401297.1 Practice of Vascular Sonography 3

Autumn session

401298.1 Principles of Vascular Sonography 4
401299.1 Practice of Vascular 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 - Victoria Road	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

401173.1 Introduction to Clinical Epidemiology
401076.1 Introduction to Epidemiology

Alternate units

Choose two of

400841.3 A Global Perspective on Social Determinants of Health
401179.2 Data Management and Programming for Epidemiology
401174.1 Epidemiology of Non-Communicable Diseases
401238.1 Qualitative Research Methodology in 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
401238.1 Qualitative Research Methodology in Health
401080.2 Research Protocol Design and Practice

Year 2

Autumn session

Choose four of

400841.3 A Global Perspective on Social Determinants of Health
401178.1 Controversies in Epidemiology
401179.2 Data Management and Programming for Epidemiology
401177.1 Environmental Epidemiology
401174.1 Epidemiology of Non-Communicable Diseases
401080.2 Research Protocol Design and Practice

Spring session

401079.2 Dissertation (Full Time)

Or

Spring/Autumn session

401282.1 Dissertation (Part Time)

401282 Dissertation (Part time) is completed over two teaching sessions, thus students will need to enrol twice in this unit.

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 - Victoria Road	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

401173.1 Introduction to Clinical Epidemiology

401076.1 Introduction to Epidemiology

Alternate Units

Choose two of

400841.3 A Global Perspective on Social Determinants of Health

401178.1 Controversies in Epidemiology

401179.2 Data Management and Programming for Epidemiology

401177.1 Environmental Epidemiology

401174.1 Epidemiology of Non-Communicable Diseases

401238.1 Qualitative Research Methodology in 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

401238.1 Qualitative Research Methodology in Health

401080.2 Research Protocol Design and Practice

Year 2

Autumn session

401079.2 Dissertation (Full Time)

Or

Autumn/Spring session

401282.1 Dissertation (Part Time)

401282 Dissertation (Part time) is completed over two teaching sessions, thus students will need to enrol twice in this unit.

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.

Postgraduate Admission Pathway - Master of Medicine (Rural Generalism) - 2 year pathway

A4044.1

Specialisation Structure

Masters of Medicine (Rural Generalism) - two year pathway.

Applicants must have successfully completed an undergraduate degree in science, health, nursing or midwifery.

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

Recommended Sequence

Year 1

1H session

401270.1 Rural and Remote Medicine: The Generalist Approach

401173.1 Introduction to Clinical Epidemiology

401077.1 Introduction to Biostatistics

One alternate unit

2H session

- 401271.1** Critical Care: Skills and Practice
401272.1 Chronic Disease Management in Rural Practice

Two alternate units

Year 2

1H session

- 401273.1** Diversity in Generalist Practice
401080.2 Research Protocol Design and Practice

Two alternate units

2H session

- 401274.1** Telehealth and Rural Communities
401275.1 Research Project in Rural Generalist Medicine

One alternate unit

Alternate Units

Students will need to choose six alternate units over four sessions

- 400841.3** A Global Perspective on Social Determinants of Health
401139.1 Clinical Supervision in Health Care
400974.1 Clinical Teaching for Learning
401174.1 Epidemiology of Non-Communicable Diseases
400418.4 Health Advancement and Health Promotion
400967.2 Health Economics and Comparative Health Systems
400777.4 Leadership for Quality and Safety in Health Care
400412.4 Primary Health Care and its Applications

Postgraduate Admission Pathway - Master of Medicine (Rural Generalism) - 1.5 year pathway

A4045.1

Location

Campus	Mode
Campbelltown Campus	Internal

Specialisation Structure

Master of Medicine (Rural Generalism) - One and a half year pathway.

Applicants must have successfully completed an undergraduate degree in medicine and have AHPRA general registration as a medical practitioner.

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

Recommended Sequence

Year 1

1H session

- 401270.1** Rural and Remote Medicine: The Generalist Approach
401173.1 Introduction to Clinical Epidemiology
401273.1 Diversity in Generalist Practice
401077.1 Introduction to Biostatistics

2H session

- 401271.1** Critical Care: Skills and Practice
401272.1 Chronic Disease Management in Rural Practice
401080.2 Research Protocol Design and Practice

One alternate unit

Year 2

1H session

- 401274.1** Telehealth and Rural Communities
401275.1 Research Project in Rural Generalist Medicine

One alternate unit

Alternate Units

Students will need to choose two alternate units over three sessions.

- 400974.1** Clinical Teaching for Learning
401139.1 Clinical Supervision in Health Care
401174.1 Epidemiology of Non-Communicable Diseases
400418.4 Health Advancement and Health Promotion
400777.4 Leadership for Quality and Safety in Health Care

Postgraduate Admission Pathway - Master of Medicine (Rural Generalism) - 1 year pathway

A4046.1

Location

Campus	Mode
Campbelltown Campus	Multi Modal

Specialisation Structure

Masters of Medicine (Rural Generalism) - One year pathway

Applicants must have successfully completed an undergraduate degree in medicine and AHPRA general registration as a medical practitioner And

Hold FACRRM or FRACGP +FARGP; OR; a minimum 7 years' full time equivalent professional experience in rural/remote health.

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

Recommended Sequence

Year 1

1H session

- 401270.1** Rural and Remote Medicine: The Generalist Approach
- 401173.1** Introduction to Clinical Epidemiology
- 401273.1** Diversity in Generalist Practice
- 401272.1** Chronic Disease Management in Rural Practice

2H session

- 401271.1** Critical Care: Skills and Practice
- 401274.1** Telehealth and Rural Communities
- 401275.1** Research Project in Rural Generalist Medicine

SCHOOL OF NURSING AND MIDWIFERY

Graduate Certificate in Acute and Critical Care Nursing

4749.1

The aim of the course is to provide Registered Nurses with the theoretical knowledge and skills to engage in safe and autonomous practice in the delivery of quality patient care in a range of acute clinical settings. Graduates will be able to further develop clinical judgment skills in order to synthesise and apply advanced nursing concepts into their clinical practice. They also will be equipped to lead nursing in a range of clinical settings.

Study Mode

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

Location

Campus	Attendance	Mode
Hawkesbury Campus	Full Time	Internal
Hawkesbury Campus	Part Time	Internal
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal

Admission

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

Registered Nurse (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 within the last five years or current and continuing employment as a registered nurse in an acute or critical care clinical 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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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

Access to a Clinical Simulation Laboratory, laptop with camera functionality and internet access if residing outside

Greater Western Sydney and unable to travel to attend scheduled workshops conducted as part of the unit 401204 Applied Clinical Practice using Simulation.

Course Structure

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

401204.1	Applied Clinical Practice using Simulation
400777.4	Leadership for Quality and Safety in Health Care
400235.2	Leadership in Clinical Practice

And one elective

Optional Elective

401241.2	Essentials in Vascular Access
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Graduate Certificate in Applied Clinical Health Research

4752.2

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 Autumn 2019 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.

Graduates from this course will have advanced knowledge and skills to undertake sound applied clinical research in healthcare from the development of a research question through to publishing the results of their research. Students will gain knowledge and understanding in all aspects of the research process involving human participants. Through searching and critiquing the literature, and formulating a full research proposal, students will complete a Human Research Ethics Application (HREA) thereby demonstrating their knowledge and skills to conceptualise and conduct a research project in a clinical setting. Successful completion of this course provides an articulation pathway into higher level research qualifications offered at Western such as the Master of Research.

Study Mode

One year part-time.

Location

Campus	Attendance	Mode
Online	Part Time	Multi Modal

Admission

Candidature for admission to the Graduate Certificate in Applied Clinical Health Research is based on the following requirements:

Successful completion of an Advanced Diploma, or higher, in medicine, dentistry, pharmacy, pathology, optometry, nutrition, human science, naturopathy, complementary

medicine, nursing, midwifery, psychology, health science, sports science, physiotherapy or occupational therapy

And

One year full-time equivalent work experience in a health related discipline and current employment in a 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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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.

Common Core Unit

400975.1 Ethics in Health Research

One Alternate unit from the list below

- 401167.1** Applied Research in Health Care
- 400839.2** Collaborative Inquiry for Primary Health Care Action
- 301004.1** Research Preparation in Post Graduate Studies
- 401080.2** Research Protocol Design and Practice

One Alternate unit from the list below

- 301028.1** Advanced Healthcare Data Environments
- 400856.2** Approaches to Epidemiology
- 401174.1** Epidemiology of Non-Communicable Diseases
- 401168.1** Evidence Based Health Care
- 401077.1** Introduction to Biostatistics

And one elective

The elective unit (10 credit points) in the Graduate Certificate in Applied Clinical Health Research may be chosen from across the University, provided that unit prerequisites are met.

- 401076.1** Introduction to Epidemiology
- 401173.1** Introduction to Clinical Epidemiology
- 301029.1** Advanced Healthcare Software and Systems

Master of Child and Family Health (Karitane)

4713.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is Spring 2018 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

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.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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.

Special Requirements

On Campus Students

To be eligible to enrol in a unit and attend a health-related placement in your course, students must meet Western Sydney University course requirements AND Special Legislative Requirements to be assessed in their first year of study against the following

1. National Criminal History Check: Students must have a current (expiring 3 years from date of issue) check valid for their entire course. A valid National Criminal history check must be an Australia wide check, include the student's full name matching their Student ID card and date of birth and not have any offences listed. If a student has a criminal history identified on their check, they must provide a Clinical Placement Authority Card (CPAC) or conditional letter from the NSW HealthShare Employment Screening and Review Unit

International students must additionally have a translated International Police Check or statutory declaration.

2. A NSW Working with Children Check (WWCC) clearance letter issued under the category of volunteer valid for their entire course.

3. A current approved first aid certificate valid for their entire course or proof of annual accreditation in resuscitation from their employer. Approved provider courses can be found at

4. A completed vaccination/immunisation card with all serology results containing expiry dates and currency must be maintained by the student to ensure compliance for their entire course.

5. NSW Undertaking/Declaration form

6. Completed any additional health forms required (such as NSW Health Code of Conduct, Health Student Undertaking/Declaration and Tuberculosis (TB) Assessment Tool)

7. Relevant Local Health District specific documentation as requested.

Contact your School for further details. Resources are also available on the Placement Hub website

For Online Students

To be eligible to enrol in a unit and attend a health-related placement in your course, students must meet Western Sydney University course requirements AND Special Legislative Requirements in your state, to be assessed in their first year of study, against the following

1. National Criminal History Check: Students must have a current check valid for their entire course. A valid National Criminal history check must be an Australia wide check, include the student's full name matching their Student ID card and date of birth and not have any offences listed. If a student has a criminal history identified on their check, they must provide a clearance or authority document or

conditional letter from their relevant authorised state organisation.

International students must additionally have a translated International Police Check or statutory declaration.

2. A Working with Children Check (WWCC) clearance letter or state equivalent, valid for their entire course.

3. A current approved first aid certificate valid for their entire course, approved provider courses can be found at

4. A completed vaccination/immunisation card with all serology results attached - currency must be maintained by the student to ensure compliance for their entire course.

5. Undertaking/Declaration form (or state equivalent documents)

6. Additional forms as required per state related to, but not limited to, Tuberculosis Assessment tool, Hepatitis B statutory declaration form, Signed Code of Conduct, Student Deed Poll and all other state equivalent documents as required.

Contact your school for further details. Resources are also available on the Placement Hub web page

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
401082.1	Cultural and Social Diversity in Health Care
401168.1	Evidence Based Health Care
400831.2	Healthy Families and Communities
400832.1	Partnership in Practice
400833.3	Perinatal Mental Health

And two electives

*See list of recommended elective units below

Choose one of

401083.2	Capstone Experience in Health Care
401084.2	Research Project in Health Care

(Note: 401083 and 401084 are 20 credit point units)

Or choose two of

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

Recommended Elective Units

Note: Students undertaking 401084 Research Project in Health Care 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
401167.1	Applied Research in Health Care

400975.1 Ethics in Health Research
400835.1 Infant Mental Health

Graduate Diploma in Child and Family Health (Karitane)

4714.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is Spring 2018 or later.

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

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.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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.

Special Requirements

On Campus Students

To be eligible to enrol in a unit and attend a health-related placement in your course, students must meet Western Sydney University course requirements AND Special Legislative Requirements to be assessed in their first year of study against the following

1. National Criminal History Check: Students must have a current (expiring 3 years from date of issue) check valid for their entire course. A valid National Criminal history check must be an Australia wide check, include the student's full name matching their Student ID card and date of birth and not have any offences listed. If a student has a criminal history identified on their check, they must provide a Clinical Placement Authority Card (CPAC) or conditional letter from the NSW HealthShare Employment Screening and Review Unit

International students must additionally have a translated International Police Check or statutory declaration.

2. A NSW Working with Children Check (WWCC) clearance letter issued under the category of volunteer valid for their entire course.

3. A current approved first aid certificate valid for their entire course or proof of annual accreditation in resuscitation from their employer. Approved provider courses can be found at

4. A completed vaccination/immunisation card with all serology results containing expiry dates and currency must be maintained by the student to ensure compliance for their entire course.

5. NSW Undertaking/Declaration form

6. Completed any additional health forms required (such as NSW Health Code of Conduct, Health Student Undertaking/Declaration and Tuberculosis (TB) Assessment Tool)

7. Relevant Local Health District specific documentation as requested.

Contact your School for further details. Resources are also available on the Placement Hub website

For Online Students

To be eligible to enrol in a unit and attend a health-related placement in your course, students must meet Western Sydney University course requirements AND Special Legislative Requirements in your state, to be assessed in their first year of study, against the following

1. National Criminal History Check: Students must have a current check valid for their entire course. A valid National Criminal history check must be an Australia wide check, include the student's full name matching their Student ID card and date of birth and not have any offences listed. If a student has a criminal history identified on their check, they must provide a clearance or authority document or conditional letter from their relevant authorised state organisation.

International students must additionally have a translated International Police Check or statutory declaration.

2. A Working with Children Check (WWCC) clearance letter or state equivalent, valid for their entire course.
3. A current approved first aid certificate valid for their entire course, approved provider courses can be found at
4. A completed vaccination/immunisation card with all serology results attached - currency must be maintained by the student to ensure compliance for their entire course.
5. Undertaking/Declaration form (or state equivalent documents)
6. Additional forms as required per state related to, but not limited to, Tuberculosis Assessment tool, Hepatitis B statutory declaration form, Signed Code of Conduct, Student Deed Poll and all other state equivalent documents as required.

Contact your school for further details. Resources are also available on the Placement Hub web page

Course Structure

Qualification for this award requires the successful completion of 80 credit points comprised of 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 |
| 401168.1 | Evidence Based Health Care |
| 400831.2 | Healthy Families and Communities |
| 400832.1 | Partnership in Practice |
| 400833.3 | Perinatal Mental Health |

And one elective

Graduate Certificate in Child and Family Health (Karitane)

4715.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is Spring 2018 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 of 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

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

Or

Employed in a new graduate program within a Child and Family Health service.

Applicants seeking admission on the basis of employment in a new graduate program MUST support their application with a statement or employment from their employer.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University. Applications made directly to Western Sydney do not have an application fee.

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.

Special Requirements

On Campus Students

To be eligible to enrol in a unit and attend a health-related placement in your course, students must meet Western Sydney University course requirements AND Special Legislative Requirements to be assessed in their first year of study against the following

1. National Criminal History Check: Students must have a current (expiring 3 years from date of issue) check valid for their entire course. A valid National Criminal history check must be an Australia wide check, include the student's full name matching their Student ID card and date of birth and not have any offences listed. If a student has a criminal history identified on their check, they must provide a Clinical Placement Authority Card (CPAC) or conditional letter from the NSW HealthShare Employment Screening and Review Unit

International students must additionally have a translated International Police Check or statutory declaration.

2. A NSW Working with Children Check (WWCC) clearance letter issued under the category of volunteer valid for their entire course

3. A current approved first aid certificate valid for their entire course or proof of annual accreditation in resuscitation from their employer. Approved provider courses can be found at

4. A completed vaccination/immunisation card with all serology results containing expiry dates and currency must be maintained by the student to ensure compliance for their entire course.

5. NSW Undertaking/Declaration form

6. Completed any additional health forms required (such as NSW Health Code of Conduct, Health Student Undertaking/Declaration and Tuberculosis (TB) Assessment Tool)

7. Relevant Local Health District specific documentation as requested.

Contact your School for further details. Resources are also available on the Placement Hub website

For Online Students

To be eligible to enrol in a unit and attend a health-related placement in your course, students must meet Western Sydney University course requirements AND Special Legislative Requirements in your state, to be assessed in their first year of study, against the following

1. National Criminal History Check: Students must have a current check valid for their entire course. A valid National Criminal history check must be an Australia wide check, include the student's full name matching their Student ID card and date of birth and not have any offences listed. If a student has a criminal history identified on their check, they must provide a clearance or authority document or conditional letter from their relevant authorised state organisation.

International students must additionally have a translated International Police Check or statutory declaration.

2. A Working with Children Check (WWCC) clearance letter or state equivalent, valid for their entire course.

3. A current approved first aid certificate valid for their entire course, approved provider courses can be found at

4. A completed vaccination/immunisation card with all serology results attached - currency must be maintained by the student to ensure compliance for their entire course.

5. Undertaking/Declaration form (or state equivalent documents)

6. Additional forms as required per state related to, but not limited to, Tuberculosis Assessment tool, Hepatitis B statutory declaration form, Signed Code of Conduct, Student Deed Poll and all other state equivalent documents as required.

Contact your school for further details. Resources are also available on the Placement Hub web page

Course Structure

Qualification for this award requires the successful completion of 40 credit points comprised of the units listed below:

400972.2	Child and Family Health Practice: Supporting Growth and Development
400971.1	Child and Family Health: Professional Practice and Frameworks
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

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). Use the links below to apply via UAC or Western Sydney University. Applications made directly to Western Sydney do not have an application fee.

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

400957.5	Biological Considerations in Mental Health and Mental Illness for Advanced Practice
401139.1	Clinical Supervision in Health Care
400220.2	Contemporary Professional Practice in Mental Health Nursing
401168.1	Evidence Based Health Care
400217.3	Mental Health Assessment and Application
400218.2	Mental Health Nursing Practice 1
400219.3	Mental Health Nursing Practice 2
400858.4	Psychopharmacology for Advanced Practice Mental Health Nurses

And two electives

And choose one of

401083.2	Capstone Experience in Health Care
401084.2	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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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.

400957.5	Biological Considerations in Mental Health and Mental Illness for Advanced Practice
401139.1	Clinical Supervision in Health Care
400220.2	Contemporary Professional Practice in Mental Health Nursing
401168.1	Evidence Based Health Care
400217.3	Mental Health Assessment and Application
400218.2	Mental Health Nursing Practice 1
400219.3	Mental Health Nursing Practice 2

And one elective

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

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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.

400220.2	Contemporary Professional Practice in Mental Health Nursing
400217.3	Mental Health Assessment and Application
400218.2	Mental Health Nursing Practice 1
400219.3	Mental Health Nursing 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 or a Maternity Unit in a Private Hospital. The course will be offered over 15 months with the students completing the last unit in Summer B of the second year.

Study Mode

Fifteen months full-time.

Location

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	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).

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

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.

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). Use the links below to apply via UAC or Western Sydney University. Applications made directly to Western Sydney do not have an application fee.

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 employed in a NSW Health Local Health District hospital or a Maternity Unit in a Private Hospital, in a position as a midwifery student, to be enrolled in the Graduate Diploma of Midwifery.

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 session**

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**Summer B session**

401094.1	Midwifery Practice 3
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Master of Nurse Practitioner (Mental Health)**4745.1**

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

Three years part-time.

Location**Campus Attendance Mode**

Online Part Time Multi Modal

Accreditation

On completion of the Master of Nurse Practitioner (Mental Health) graduates will be eligible to apply for authorisation as a Nurse Practitioner with Australian Health Practitioner Regulation Agency (AHPRA). 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
- Two years full-time equivalent (FTE) work experience as a registered nurse in mental health, PLUS two years of full-time equivalent (FTE) work experience 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 two referee reports, and
- Submission to the University of evidence of support from employing organisation to complete the course, and
- Access to complete clinical experience in a mental health setting (as approved by the School of 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). Use the links below to apply via UAC or Western Sydney University. Applications made directly to Western Sydney do not have an application fee.

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 which include the units listed in the recommended sequence below.

Students may exit with a Graduate Diploma in Nursing Leadership (Mental Health) on completion of the relevant units.

Recommended Sequence

Year 1

Autumn session

- 400220.2** Contemporary Professional Practice in Mental Health Nursing
400235.2 Leadership in Clinical Practice

Spring session

- 400957.5** Biological Considerations in Mental Health and Mental Illness for Advanced Practice Evidence Based Health Care
401168.1

Year 2

Autumn session

- 401139.1** Clinical Supervision in Health Care
400228.3 Assessment for Advanced Practice Mental Health Nurses

Spring session

- 400777.4** Leadership for Quality and Safety in Health Care
400858.4 Psychopharmacology for Advanced Practice Mental Health Nurses

Students may exit with the Graduate Diploma in Nursing Leadership (Mental Health) at this point.

Year 3

- 401202.1** Advanced Clinical Practice in Mental Health Nursing

(20 credit point year-long unit)

And one elective (for Nurse Practitioner role development)

And one elective (for Mental Health specialty)

Optional Elective

- 401241.2** Essentials in Vascular Access

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

4746.1

This is an exit course only. Applicants apply to 4745 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 - Victoria Road	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
400235.2 Leadership in Clinical Practice

Spring session

- 400957.5** Biological Considerations in Mental Health and Mental Illness for Advanced Practice
401168.1 Evidence Based Health Care

Year 2

Autumn session

- 401139.1** Clinical Supervision in Health Care
400228.3 Assessment for Advanced Practice Mental Health Nurses

Spring session

- 400777.4** Leadership for Quality and Safety in Health Care
400858.4 Psychopharmacology for Advanced Practice Mental Health Nurses

Master of Nursing

4722.2

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 is 2017 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.

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. One year full-time (two years part-time) program is also

available, depending on entry qualifications (see Pathways below).

Location

Campus	Attendance	Mode
Hong Kong Baptist University	Part Time	Internal
Online	Full Time	Multi Modal
Online	Part Time	Multi Modal
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	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:

Master of Nursing 1.5 year Pathway (120 credit points)

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.

Master of Nursing 1 year Pathway (80 credit points)

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), or higher, in a health-related discipline

and

Two years 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). Use the links below

to apply via UAC or Western Sydney University. Applications made directly to Western Sydney do not have an application fee.

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.

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 WSU.

Course Structure

Qualification for this award requires the successful completion of 120 credit points (1.5 year Pathway) or 80 credit points (1 year Pathway).

Students may complete the Master of Nursing (no specialisation) or may enrol in and complete one of five Specialisations. See individual links below for detailed course structure.

- Clinical Leadership
- Clinical Teaching
- Aged Care
- Primary Health Care
- Research Studies

Master of Nursing (no specialisation)

A4014.1 Master of Nursing (No Specialisation) - 1.5 year Pathway

A4015.1 Master of Nursing (No Specialisation) - 1 year pathway

Master of Nursing (Clinical Leadership)

A4016.1 Master of Nursing (Clinical Leadership) - 1.5 year pathway

A4017.1 Master of Nursing (Clinical Leadership) - 1 year pathway

Master of Nursing (Clinical Teaching)

A4018.1 Master of Nursing (Clinical Teaching) - 1.5 year pathway

A4019.1 Master of Nursing (Clinical Teaching) - 1 year pathway

Master of Nursing (Aged Care)

A4020.1 Master of Nursing (Aged Care) - 1.5 year pathway

A4021.1 Master of Nursing (Aged Care) - 1 year pathway

Master of Nursing (Primary Health Care)

A4022.1 Master of Nursing (Primary Health Care) - 1.5 year pathway

A4023.1 Master of Nursing (Primary Health Care) - 1 year pathway

Master of Nursing (Research Studies)

A4024.1 Master of Nursing (Research Studies) - 1.5 year pathway

A4025.1 Master of Nursing (Research Studies) - 1 year pathway

Graduate Diploma in Nursing

4723.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2017 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.

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. Specialisations available include clinical leadership, clinical teaching, aged care, primary health care or research studies. 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
Online	Full Time	Multi Modal
Online	Part Time	Multi Modal

Admission

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

Graduate Diploma in Nursing (80 credit points)

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 OR Graduate Certificate in Nursing.

Graduate Diploma in Nursing (60 credit points)

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) or Graduate Diploma, or higher in any discipline.

And

Two years full-time equivalent 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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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 or 60 credit points depending on the Pathway the student is enrolled in, based on the admission requirements.

Students may complete the Graduate Diploma in Nursing (no specialisation) or may enrol in and complete one of five Specialisations. See individual links below for detailed course structure.

- Clinical Leadership
- Clinical Teaching
- Aged Care
- Primary Health Care

- Research Studies

Graduate Diploma in Nursing (no specialisation)

- A4026.1** Graduate Diploma in Nursing (No specialisation) - 80 cp 1 year Pathway
- A4027.1** Graduate Diploma in Nursing (No specialisation) - 60 cp 1 year Pathway

Graduate Diploma in Nursing (Clinical Leadership)

- A4028.1** Graduate Diploma in Nursing (Clinical Leadership) - 80 cp 1 year Pathway
- A4029.1** Graduate Diploma in Nursing (Clinical Leadership) - 60 cp 1 year Pathway

Graduate Diploma in Nursing (Clinical Teaching)

- A4030.1** Graduate Diploma in Nursing (Clinical Teaching) - 80 cp 1 year Pathway
- A4031.1** Graduate Diploma in Nursing (Clinical Teaching) - 60 cp 1 year Pathway

Graduate Diploma in Nursing (Aged Care)

- A4032.1** Graduate Diploma in Nursing (Aged Care) - 80 cp 1 year Pathway
- A4033.1** Graduate Diploma in Nursing (Aged Care) - 60cp 1 year Pathway

Graduate Diploma in Nursing (Primary Health Care)

- A4034.1** Graduate Diploma in Nursing (Primary Health Care) - 80cp 1 year Pathway
- A4035.1** Graduate Diploma in Nursing (Primary Health Care) - 60 cp 1 year Pathway

Graduate Diploma in Nursing (Research Studies)

- A4036.1** Graduate Diploma in Nursing (Research Studies) - 80cp 1 year Pathway
- A4037.1** Graduate Diploma in Nursing (Research Studies) - 60cp 1 year Pathway

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

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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
401168.1	Evidence Based Health Care
400235.2	Leadership in Clinical Practice
400774.2	Perspectives on Nursing

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 their capstone experience.

Study Mode

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

Location

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Full Time	External
Parramatta Campus - Victoria Road	Part Time	External
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	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).

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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
400412.4	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.

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

And one elective

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

400235.2	Leadership in Clinical Practice
400777.4	Leadership for Quality and Safety in Health Care
400774.2	Perspectives on Nursing
400238.3	Policy, Power and Politics in Health Care Provision

And two electives

Capstone Unit (20 credit points)

401083.2	Capstone Experience in Health Care
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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 - Victoria Road	Full Time	External
Parramatta Campus - Victoria Road	Part Time	External
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	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
401168.1	Evidence Based Health Care
400210.2	Health Promotion and the Nurse
400773.4	Mental Health for Communities
400412.4	Primary Health Care and its Applications
400241.3	Supporting Aged Communities

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 - Victoria Road	Full Time	External
Parramatta Campus - Victoria Road	Part Time	External
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	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
400412.4	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.

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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.

400856.2	Approaches to Epidemiology
400839.2	Collaborative Inquiry for Primary Health Care Action
401082.1	Cultural and Social Diversity in Health Care
400837.3	Health and Socio-political Issues in Aged Care
400836.2	Health Promotion: A Primary Health Care Approach
400414.2	Leadership and Change
400773.4	Mental Health for Communities

400412.4	Primary Health Care and its Applications
400838.2	Supporting Individuals and Communities in Crisis

And one elective
And choose one of

401083.2	Capstone Experience in Health Care
401084.2	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). Use the links below to apply via UAC or Western Sydney University. Applications made directly to Western Sydney do not have an application fee.

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.

400856.2	Approaches to Epidemiology
401082.1	Cultural and Social Diversity in Health Care
400836.2	Health Promotion: A Primary Health Care Approach
400837.3	Health and Socio-political Issues in Aged Care
400773.4	Mental Health for Communities
400412.4	Primary Health Care and its Applications
400838.2	Supporting Individuals and Communities in Crisis

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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.

400856.2	Approaches to Epidemiology
401082.1	Cultural and Social Diversity in Health Care
400836.2	Health Promotion: A Primary Health Care Approach
400412.4	Primary Health Care and its Applications

Specialisations

Postgraduate Admission Pathway - Master of Nursing (No Specialisation) - 1.5 year Pathway

A4014.1

Specialisation Structure

1.5 year Pathway 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
401168.1	Evidence Based Health Care
400210.2	Health Promotion and the Nurse
400235.2	Leadership in Clinical Practice
400774.2	Perspectives on Nursing
400238.3	Policy, Power and Politics in Health Care Provision
400412.4	Primary Health Care and its Applications

And three electives

And choose one of

401083.2	Capstone Experience in Health Care
401084.2	Research Project in Health Care

or choose two of

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

Optional Elective

401241.2	Essentials in Vascular Access
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Postgraduate Admission Pathway - Master of Nursing (No Specialisation) - 1 year pathway

A4015.1

Specialisation Structure

1 year Pathway

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
401168.1	Evidence Based Health Care
400235.2	Leadership in Clinical Practice
400774.2	Perspectives on Nursing
400412.4	Primary Health Care and its Applications

And one elective

Choose one of

401083.2	Capstone Experience in Health Care
401084.2	Research Project in Health Care

or choose two of

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

Optional Elective

401241.2	Essentials in Vascular Access
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Postgraduate Admission Pathway - Master of Nursing (Clinical Leadership) - 1.5 year pathway

A4016.1

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.

Specialisation Structure

1.5 year Pathway

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

400846.3	Building Organisational Capacity in Health Care
401082.1	Cultural and Social Diversity in Health Care
401168.1	Evidence Based Health Care
400777.4	Leadership for Quality and Safety in Health Care
400235.2	Leadership in Clinical Practice
400774.2	Perspectives on Nursing
400238.3	Policy, Power and Politics in Health Care Provision

And three electives

And choose one of

401083.2	Capstone Experience in Health Care
401084.2	Research Project in Health Care

or choose two of

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

Optional Elective

401241.2	Essentials in Vascular Access
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Postgraduate Admission Pathway - Master of Nursing (Clinical Leadership) - 1 year pathway

A4017.1

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.

Specialisation Structure

1 year Pathway

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

400846.3	Building Organisational Capacity in Health Care
401082.1	Cultural and Social Diversity in Health Care
401168.1	Evidence Based Health Care
400777.4	Leadership for Quality and Safety in Health Care
400235.2	Leadership in Clinical Practice

And one elective

And choose one of

401083.2	Capstone Experience in Health Care
401084.2	Research Project in Health Care

or choose two of

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

Optional Elective

401241.2	Essentials in Vascular Access
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Postgraduate Admission Pathway - Master of Nursing (Clinical Teaching) - 1.5 year pathway

A4018.1

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.

Specialisation Structure

1.5 year Pathway

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

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

And three electives

And choose one of

401083.2	Capstone Experience in Health Care
401084.2	Research Project in Health Care

or choose two of

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

Optional Elective

401241.2	Essentials in Vascular Access
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Postgraduate Admission Pathway - Master of Nursing (Clinical Teaching) - 1 year pathway

A4019.1

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.

Specialisation Structure

1 year Pathway

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

400973.1	Clinical Teaching and Professional Development
400974.1	Clinical Teaching for Learning
401082.1	Cultural and Social Diversity in Health Care
401168.1	Evidence Based Health Care
400235.2	Leadership in Clinical Practice

And one elective

And choose one of

- 401083.2** Capstone Experience in Health Care
401084.2 Research Project in Health Care

or choose two of

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

Optional Elective

- 401241.2** Essentials in Vascular Access

Postgraduate Admission Pathway - Master of Nursing (Aged Care) - 1.5 year pathway

A4020.1

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.

Specialisation Structure

1.5 year Pathway

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

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

And three electives

And choose one of

- 401083.2** Capstone Experience in Health Care
401084.2 Research Project in Health Care

or choose two of

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

Optional Elective

- 401241.2** Essentials in Vascular Access

Postgraduate Admission Pathway - Master of Nursing (Aged Care) - 1 year pathway

A4021.1

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.

Specialisation Structure

1 year Pathway

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
401168.1 Evidence Based Health Care
400837.3 Health and Socio-political Issues in Aged Care
400235.2 Leadership in Clinical Practice
400241.3 Supporting Aged Communities

And one elective

And choose one of

- 401083.2** Capstone Experience in Health Care
401084.2 Research Project in Health Care

or choose two of

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

Optional Elective

- 401241.2** Essentials in Vascular Access

Postgraduate Admission Pathway - Master of Nursing (Primary Health Care) - 1.5 year pathway

A4022.1

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.

Specialisation Structure

1.5 year Pathway

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

400856.2	Approaches to Epidemiology
401082.1	Cultural and Social Diversity in Health Care
401168.1	Evidence Based Health Care
400836.2	Health Promotion: A Primary Health Care Approach
400774.2	Perspectives on Nursing
400238.3	Policy, Power and Politics in Health Care Provision
400412.4	Primary Health Care and its Applications

And three electives

And choose one of

401083.2	Capstone Experience in Health Care
401084.2	Research Project in Health Care

or choose two of

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

Optional Elective

401241.2	Essentials in Vascular Access
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Postgraduate Admission Pathway - Master of Nursing (Primary Health Care) - 1 year pathway

A4023.1

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.

Specialisation Structure

1 year Pathway

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

400856.2	Approaches to Epidemiology
401082.1	Cultural and Social Diversity in Health Care
401168.1	Evidence Based Health Care
400836.2	Health Promotion: A Primary Health Care Approach
400412.4	Primary Health Care and its Applications

And one elective

And choose one of

401083.2	Capstone Experience in Health Care
401084.2	Research Project in Health Care

or choose two of

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

Optional Elective

401241.2	Essentials in Vascular Access
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Postgraduate Admission Pathway - Master of Nursing (Research Studies) - 1.5 year pathway

A4024.1

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.

Specialisation Structure

1.5 year Pathway

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

401167.1	Applied Research in Health Care
401082.1	Cultural and Social Diversity in Health Care
400975.1	Ethics in Health Research
401168.1	Evidence Based Health Care
400235.2	Leadership in Clinical Practice
400774.2	Perspectives on Nursing
400238.3	Policy, Power and Politics in Health Care Provision
401084.2	Research Project in Health Care

And three electives

Optional Elective

401241.2	Essentials in Vascular Access
401238.1	Qualitative Research Methodology in Health

Postgraduate Admission Pathway - Master of Nursing (Research Studies) - 1 year pathway

A4025.1

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.

Specialisation Structure

1 year Pathway

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

401167.1	Applied Research in Health Care
401082.1	Cultural and Social Diversity in Health Care
400975.1	Ethics in Health Research
401168.1	Evidence Based Health Care
400235.2	Leadership in Clinical Practice
401084.2	Research Project in Health Care

And one elective

Optional Elective

401241.2	Essentials in Vascular Access
401238.1	Qualitative Research Methodology in Health

Postgraduate Admission Pathway - Graduate Diploma in Nursing (No specialisation) - 80 cp 1 year Pathway

A4026.1

Specialisation Structure

80 credit point Pathway 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
401168.1	Evidence Based Health Care
400235.2	Leadership in Clinical Practice
400774.2	Perspectives on Nursing
400238.3	Policy, Power and Politics in Health Care Provision
400412.4	Primary Health Care and its Applications

And two electives

Postgraduate Admission Pathway - Graduate Diploma in Nursing (No specialisation) - 60 cp 1 year Pathway

A4027.1

Specialisation Structure

60 credit point Pathway Structure

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

401082.1	Cultural and Social Diversity in Health Care
401168.1	Evidence Based Health Care
400235.2	Leadership in Clinical Practice
400774.2	Perspectives on Nursing
400412.4	Primary Health Care and its Applications

And one elective

Postgraduate Admission Pathway - Graduate Diploma in Nursing (Clinical Leadership) - 80 cp 1 year Pathway

A4028.1

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.

Specialisation Structure

80 credit point Pathway Structure

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

400846.3	Building Organisational Capacity in Health Care
401082.1	Cultural and Social Diversity in Health Care
401168.1	Evidence Based Health Care
400777.4	Leadership for Quality and Safety in Health Care
400235.2	Leadership in Clinical Practice
400774.2	Perspectives on Nursing
400238.3	Policy, Power and Politics in Health Care Provision

And one elective

Postgraduate Admission Pathway - Graduate Diploma in Nursing (Clinical Leadership) - 60 cp 1 year Pathway

A4029.1

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.

Specialisation Structure

60 credit point Pathway Structure

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

400846.3	Building Organisational Capacity in Health Care
401082.1	Cultural and Social Diversity in Health Care
401168.1	Evidence Based Health Care
400777.4	Leadership for Quality and Safety in Health Care
400235.2	Leadership in Clinical Practice
400238.3	Policy, Power and Politics in Health Care Provision

Postgraduate Admission Pathway - Graduate Diploma in Nursing (Clinical Teaching) - 80 cp 1 year Pathway

A4030.1

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.

Specialisation Structure

80 credit point Pathway Structure

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

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

And one elective

Postgraduate Admission Pathway - Graduate Diploma in Nursing (Clinical Teaching) - 60 cp 1 year Pathway

A4031.1

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.

Specialisation Structure

60 credit point Pathway Structure

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

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

Postgraduate Admission Pathway - Graduate Diploma in Nursing (Aged Care) - 80 cp 1 year Pathway

A4032.1

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.

Specialisation Structure

80 credit point Pathway Structure

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

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

Postgraduate Admission Pathway - Graduate Diploma in Nursing (Aged Care) - 60cp 1 year Pathway

A4033.1

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.

Specialisation Structure

60 credit point Pathway Structure

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

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

Postgraduate Admission Pathway - Graduate Diploma in Nursing (Primary Health Care) - 80cp 1 year Pathway

A4034.1

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.

Specialisation Structure

80 credit point Pathway Structure

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

400856.2	Approaches to Epidemiology
401082.1	Cultural and Social Diversity in Health Care
401168.1	Evidence Based Health Care
400836.2	Health Promotion: A Primary Health Care Approach
400774.2	Perspectives on Nursing
400238.3	Policy, Power and Politics in Health Care Provision

400412.4 Primary Health Care and its Applications

And one elective

Postgraduate Admission Pathway - Graduate Diploma in Nursing (Primary Health Care) - 60 cp 1 year Pathway

A4035.1

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.

Specialisation Structure

60 credit point Pathway Structure

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

400856.2	Approaches to Epidemiology
401082.1	Cultural and Social Diversity in Health Care
401168.1	Evidence Based Health Care
400836.2	Health Promotion: A Primary Health Care Approach
400238.3	Policy, Power and Politics in Health Care Provision
400412.4	Primary Health Care and its Applications

Postgraduate Admission Pathway - Graduate Diploma in Nursing (Research Studies) - 80cp 1 year Pathway

A4036.1

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.

Specialisation Structure

80 credit point Pathway Structure

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

401167.1	Applied Research in Health Care
401082.1	Cultural and Social Diversity in Health Care
400975.1	Ethics in Health Research
401168.1	Evidence Based Health Care

400235.2	Leadership in Clinical Practice
400774.2	Perspectives on Nursing
401085.1	Scholarship for Practice Change in Health Care

And one elective

Postgraduate Admission Pathway - Graduate Diploma in Nursing (Research Studies) - 60cp 1 year Pathway

A4037.1

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.

Specialisation Structure

60 credit point Pathway Structure

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

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

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.

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). Use the links below to apply via UAC or Western Sydney University. Applications made directly to Western Sydney do not have an application fee.

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

Autumn session

301055.3 Research Project A

Spring session

301056.2 Research Project B

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

Spring session**301055.3** Research Project A**Year 4****Autumn session****301056.2** Research Project B**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 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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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 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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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

3703.3

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course was Summer A 2017/2018 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 Masters program aims to provide students with the special knowledge and skills to assess and evaluate building solutions. It is relevant to professionals certifying performance solutions under the national construction code and relevant standards. The course enables students to understand performance requirements, fire safety and engineering principles, access and sustainability and other issues related to building surveying practice. 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 course is primarily a Distance Learning course however there are some compulsory workshops. However, a select unit (one in total) has a five 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

Parramatta City Campus-
Macquarie Street

Attendance Mode

Part Time External

Accreditation

The course is recognised by NSW Building Professionals Board (BPB) and has full accreditation with the Australian Institute of Building Surveyors (AIBS). This course allows students currently accredited as building surveyors to progress to A2 and A1 professionals under the Building Professions Act.

Admission

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

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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

300713.3 Building Engineering

Autumn session

300948.2 Fire Technology and Engineering Principles

301103.1 Interpreting Building Regulations
(Residential Buildings)

Quarter 3 session

300708.4 Planning and Development Control

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

301104.2 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

301055.3 Research Project A

Spring session

301056.2 Research Project B

Autumn Intake

Year 1

Autumn session

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

Quarter 3 session

300708.4 Planning and Development Control

Spring session

300711.3 Building Fire Services
300717.3 Egress and Risk Assessment

Summer session

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

301104.2 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

301055.3 Research Project A

Spring session

301056.2 Research Project B

Spring Intake

Year 1

Spring session

300711.3 Building Fire Services
300717.3 Egress and Risk Assessment

Summer session

300713.3 Building Engineering

Year 2

Autumn session

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

Quarter 3 session

300708.4 Planning and Development Control

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

Spring session

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

Summer session

301104.2 Professional Practice and Building Law

Year 3**Autumn session**

300716.3 Building Studies
300947.2 Building Regulations

Quarter 3 session

301050.1 Disaster and Emergency Management (PG)

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

Spring session

301055.3 Research Project A

Year 4**Autumn session**

301056.2 Research Project B

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 two 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 five 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**

Parramatta City Campus-
Macquarie Street

Attendance Mode

Part Time External

Accreditation

The course is recognised by NSW Building Professionals Board (BPB) and has full accreditation with the Australian Institute of Building Surveyors (AIBS).

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 and four years full-time equivalent professional work experience in the relevant fields in the building industry, certification consultancy 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 and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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**SummerIntake****Year 1****Summer session**

300713.3 Building Engineering

Autumn session

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

Quarter 3 session

300708.4 Planning and Development Control

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**

301104.2 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

Autumn Intake**Year 1****Autumn session**

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

Quarter 3 session

300708.4 Planning and Development Control

Spring session

300711.3 Building Fire Services
300717.3 Egress and Risk Assessment

Summer session

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

301104.2 Professional Practice and Building Law

Quarter 3 Intake**Year 1****Quarter 3 session**

300708.4 Planning and Development Control

Spring session

300711.3 Building Fire Services
300717.3 Egress and Risk Assessment

Year 2**Summer session**

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**

301104.2 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 City Campus- Macquarie Street	Part Time	External

Admission

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

Or

Diploma in any discipline and four years FTE 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 and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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

300713.3 Building Engineering

Autumn session

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

Quarter 3 session

300708.4 Planning and Development Control

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)

Quarter 3 session

300708.4 Planning and Development Control

Spring session

300711.3 Building Fire Services
300717.3 Egress and Risk Assessment

Summer session

300713.3 Building Engineering

Quarter 3 Intake

Year 1

Quarter 3 session

300708.4 Planning and Development Control

Spring session

300711.3 Building Fire Services
300717.3 Egress and Risk Assessment

Year 2**Summer session**

300713.3 Building Engineering

Autumn session

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

Master of Bushfire Protection**3708.3**

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course was Summer A 2017/2018 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 community risk 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 performance 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 City Campus- Macquarie Street	Part Time External

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 and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University. Applications made directly to Western Sydney do not have an application fee.

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**

200500.3 Bushfire Fighting

Autumn session

200457.4 Bushfire Behaviour
301103.1 Interpreting Building Regulations
(Residential Buildings)

Quarter 3 session

300708.4 Planning and Development Control

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****301104.2** Professional Practice and Building Law**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****200459.3** Emergency Management for Bushfire Prone Areas
200499.6 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****301055.3** Research Project A**Spring session****301056.2** Research Project B**Autumn Intake****Year 1****Autumn session****200457.4** Bushfire Behaviour
301103.1 Interpreting Building Regulations (Residential Buildings)**Quarter 3 Session****300708.4** Planning and Development Control**Spring session****200458.3** Building in Bushfire Prone Areas
301049.1 Planning for Bushfire Prone Areas**Summer session****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****200459.3** Emergency Management for Bushfire Prone Areas
200499.6 Alternative Solutions for Bushfire Prone Areas**Summer session****301104.2** 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****301055.3** Research Project A**Spring session****301056.2** Research Project B**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**Parramatta City Campus-
Macquarie Street**Attendance Mode**

Part Time External

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 four 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 and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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****200500.3** Bushfire Fighting**Autumn session****301103.1** Interpreting Building Regulations
(Residential Buildings)
200457.4 Bushfire Behaviour

Workshop attendance in 200457 is required.

Quarter 3 session**300708.4** Planning and Development Control**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****301104.2** Professional Practice and Building Law**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****200459.3** Emergency Management for Bushfire Prone
Areas
200499.6 Alternative Solutions for Bushfire Prone
Areas**Autumn Intake****Year 1****Autumn session****301103.1** Interpreting Building Regulations
(Residential Buildings)
200457.4 Bushfire Behaviour

Workshop attendance in 200457 is required.

Quarter 3 session**300708.4** Planning and Development Control**Spring session****200458.3** Building in Bushfire Prone Areas
301049.1 Planning for Bushfire Prone Areas**Summer session****200500.3** Bushfire Fighting

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

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

200459.3 Emergency Management for Bushfire Prone Areas
200499.6 Alternative Solutions for Bushfire Prone Areas

Summer session

301104.2 Professional Practice and Building Law

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 City Campus- Macquarie Street	Part Time	External

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 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 and two 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 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) and five years full-time equivalent professional and/or voluntary work experience in the relevant fields in industry, local government or state fire services;

Or

Three years full-time equivalent professional work experience as a member of a state (or territory) fire service or bushfire consultancy firm working in the area of bushfire assessments.

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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

200500.3 Bushfire Fighting

Autumn session

301103.1 Interpreting Building Regulations
(Residential Buildings)
200457.4 Bushfire Behaviour

Workshop attendance in 200457 is required.

Quarter 3 session

300708.4 Planning and Development Control

Spring session

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

Autumn Intake

Year 1

Autumn session

301103.1 Interpreting Building Regulations
(Residential Buildings)
200457.4 Bushfire Behaviour

Workshop attendance in 200457 is required.

Quarter 3 session

300708.4 Planning and Development Control

Spring session

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

Summer session

200500.3 Bushfire Fighting

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 - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	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.

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). Use the links below to apply via UAC or Western Sydney University. Applications made directly to Western Sydney do not have an application fee.

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

Start-year Intake

Year 1

Autumn session

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

Spring session

301044.1	Data Science
301115.1	Advanced Statistical Methods
301117.1	Predictive Analytics

And one elective

Year 2

Autumn session

300597.4	Master Project 1
301116.1	Social Media Intelligence
301118.1	Genomic Data Science

And one elective

Spring session

300598.5	Master Project 2
301119.1	Advanced Machine Learning

And two electives

All elective units must be at Postgraduate Level 7

Mid-year Intake

Year 1

Spring session

301044.1	Data Science
301113.1	Programming for Data Science
301114.1	The Nature of Data

And one elective

Autumn session

301046.1	Big Data
301112.1	Visualisation
301116.1	Social Media Intelligence

And one elective

Year 2

Spring session

300597.4	Master Project 1
301115.1	Advanced Statistical Methods

301117.1	Predictive Analytics
301119.1	Advanced Machine Learning

Autumn session

300598.5	Master Project 2
301118.1	Genomic Data Science

And two electives

All elective units must be at Postgraduate Level 7

Graduate Diploma in Data Science

3750.1

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 provides a grounding in the nature of data and skills required to embark on data driven investigations.

Study Mode

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

Location

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal

Admission

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

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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 below.

Core Units

301046.1	Big Data
301044.1	Data Science
301113.1	Programming for Data Science
301114.1	The Nature of Data
301112.1	Visualisation

Choose three of

301115.1	Advanced Statistical Methods
301118.1	Genomic Data Science
301117.1	Predictive Analytics
301116.1	Social Media Intelligence

Graduate Certificate in Data Science

3751.1

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 introduces the skills needed to embark on data driven investigations.

Study Mode

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

Location

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal

Admission

Applicants must have

- Successfully completed an undergraduate degree, or higher, in any discipline; Or
- Have a minimum of five years full-time equivalent professional work experience

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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 which include the units listed below.

Core Units

301113.1	Programming for Data Science
301114.1	The Nature of Data

Choose two of

301046.1	Big Data
301044.1	Data Science
301118.1	Genomic Data Science
301117.1	Predictive Analytics
301116.1	Social Media Intelligence
301112.1	Visualisation

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.

From 2017 the Master of Engineering will be offered at Parramatta campus and will no longer be offered at Penrith campus.

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
Parramatta City Campus- Macquarie Street	Full Time	Internal

CampusParramatta City Campus-
Macquarie Street**Attendance Mode**

Part Time Internal

Accreditation

This course has Full Accreditation at the level of Professional Engineer at Parramatta City Campus in Civil, Environmental, Mechanical, Mechatronic, Electrical, and Telecommunications. Graduates of this program in these six areas are eligible to apply for full membership of Engineers Australia. They are eligible to apply for Chartered Professional Engineering registration upon successful completion of required engineering practice period specified by Engineers Australia.

Admission

Applicants must have successfully completed a recognised 4-year undergraduate degree, or higher, in engineering in one of the specialisations, e.g. Civil, Biomedical, Environmental, Mechatronic, Mechanical, Electrical, Telecommunication.

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.

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 Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University. Applications made directly to Western Sydney do not have an application fee.

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 which must be at Level 7.

To complete some of the components within the units in this course, students may be required to travel to other Western Sydney University campuses.

Core Units

301006.1	Advanced Engineering Project 1
301007.1	Advanced Engineering Project 2
300597.4	Master Project 1
300598.5	Master Project 2
301005.2	Professional Practice and Communication
301004.1	Research Preparation in Post Graduate Studies
301002.1	Specialised Software Applications
301003.1	Sustainable Systems

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
ST3062.1	Biomedical

Recommended Sequence

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

Start-year Intake**Year 1****Autumn session**

301005.2	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**

300597.4	Master Project 1
301007.1	Advanced Engineering Project 2

Specialised Alternate 3 or Elective 3
Specialised Alternate 4

Spring session

300598.5 Master Project 2
301002.1 Specialised Software Applications

Elective 3 or Specialised Alternate 3
Specialised Alternate 5

Note: 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)

Mid-year Intake

Year 1

Spring session

301005.2 Professional Practice and Communication
301003.1 Sustainable Systems

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

Autumn 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

Spring session

300597.4 Master Project 1
301007.1 Advanced Engineering Project 2

Specialised Alternate 3 or Elective 3
Specialised Alternate 4

Autumn session

300598.5 Master Project 2
301002.1 Specialised Software Applications

Elective 3 or Specialised Alternate 3
Specialised Alternate 5

Note: 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)

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
Parramatta City Campus-Macquarie Street	Full Time	Internal
Parramatta City Campus-Macquarie Street	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.

To complete some of the components within the units in this course, students may be required to travel to other Western Sydney University campuses.

Core Units

301006.1 Advanced Engineering Project 1
301007.1 Advanced Engineering Project 2
301005.2 Professional Practice and Communication
301004.1 Research Preparation in Post Graduate Studies
301002.1 Specialised Software Applications
301003.1 Sustainable Systems

Specialisations

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

Students exiting with 3694 Graduate Diploma in Engineering (Exit only), choose four specialised alternate units

ST3027.1	Civil
ST3028.1	Electrical
ST3029.1	Environmental
ST3030.1	Mechanical
ST3031.1	Mechatronic
ST3032.1	Telecommunication
ST3062.1	Biomedical

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.

From 2017 the Graduate Certificate in Engineering will be offered at Parramatta campus and will no longer be offered at Penrith campus.

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
Parramatta City Campus- Macquarie Street	Full Time	Internal
Parramatta City Campus- Macquarie Street	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 following specialisations: Biomedical, 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 Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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.

To complete some of the components within the units in this course, students may be required to travel to other Western Sydney University campuses.

Core Units

301006.1	Advanced Engineering Project 1
301005.2	Professional Practice and Communication
301004.1	Research Preparation in Post Graduate Studies
301003.1	Sustainable Systems

Specialisations

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

Students enrolled in 3695 Graduate Certificate in Engineering, choose four specialised alternate units

ST3027.1	Civil
ST3028.1	Electrical
ST3029.1	Environmental
ST3030.1	Mechanical
ST3031.1	Mechatronic
ST3032.1	Telecommunication
ST3062.1	Biomedical

Master of Fire Safety Engineering

3705.3

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course was Summer A 2017/2018 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 five day intensive block style compulsory workshop that requires students to attend. 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 City Campus- Macquarie Street	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 and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University. Applications made directly to Western Sydney do not have an application fee.

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

301104.2	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

301055.3	Research Project A
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Spring session

301056.2	Research Project B
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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

301104.2 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**

301055.3 Research Project A

Spring session

301056.2 Research Project B

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

301104.2 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

301055.3 Research Project A

Autumn session

301056.2 Research Project B

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 City Campus- Macquarie Street	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 four 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 and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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
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

301104.2 Professional Practice and Building Law

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

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

- 301104.2** Professional Practice and Building Law

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

- 301104.2** 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**

Parramatta City Campus-
Macquarie Street

Attendance Mode

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 and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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****3699.4**

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is Spring 2017 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.

Master of Information and Communications Technology (MICT) sets the foundation for students to advance their careers in ICT 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 to 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 - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal
Sydney City Campus	Full Time	Internal

Accreditation

The Master of Information and Communication Technology is accredited at Professional Level by the Australian Computer Society.

Admission

Minimum admission requirements to this course are:
An undergraduate degree or Masters degree in any discipline.

Additional Information

This course has three Pathways (A, B and C) that vary in length and structure based on previous study and work experience.

Pathway A - Applicants must have successfully completed an undergraduate degree in any discipline.

Pathway B - Applicants must have successfully completed an Honours or Master degree in any discipline.

Pathway C - Applicants must have successfully completed an Australian Computer Society accredited (or equivalent)

undergraduate degree in Information and Communication Technologies, Computing or Information Systems

Or

An undergraduate degree in any discipline AND a Graduate Certificate or Graduate Diploma in ICT.

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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

Sydney City Campus

Parramatta Campus

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.

A3040.1 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 Bachelor Honours or Masters Qualifications are eligible to complete the one and a half year Pathway below.

A3041.1 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 Bachelor Honours or Masters Qualifications are eligible to complete the one and a half year Pathway below.

A3042.1 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 must also complete one of the listed Specialisations below.

Parramatta Campus

ST3064.1 Artificial Intelligence
ST3065.1 Cybersecurity
ST3053.1 Data Analytics
ST3052.1 Digital Futures
ST3054.1 Distributed Computing
ST3055.1 Health Informatics
ST3051.1 Innovation and Entrepreneurship
ST3034.1 Management
ST3049.1 Networking
ST3050.1 Web and Mobile Computing

Sydney City Campus

ST3049.1 Networking
ST3050.1 Web and Mobile Computing

Master of Information and Communications Technology (Advanced)

3698.4

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is Autumn 2018 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.

Master of Information and Communications Technology - Advanced (MICT-Adv) course is for students seeking to progress their knowledge in 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 - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal

Accreditation

The Master of Information and Communications Technology (Advanced) is accredited at Professional Level by the Australian Computer Society.

Admission

Minimum admission requirements to this course are:

An undergraduate degree or Masters degree in any discipline.

Additional Information

This course has three Pathways (A, B and C) that vary in length and structure based on previous study and work experience.

Pathway A - Applicants must have successfully completed an undergraduate degree in any discipline.

Pathway B - Applicants must have successfully completed an Honours or Master degree in any discipline.

Pathway C - Applicants must have successfully completed an Australian Computer Society accredited (or equivalent) undergraduate degree in Information and Communication Technologies, Computing or Information Systems

Or

An undergraduate degree in any discipline and a Graduate Certificate or Graduate Diploma in ICT.

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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.

A3037.1	Master of Information and Communications Technology (Advanced) Pathway A - 2.5 years
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Pathway B - Two years

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

A3038.1	Master of Information and Communications Technology (Advanced) Pathway B - 2 year program
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Pathway C - Two years

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

A3039.1	Master of Information and Communications Technology (Advanced) Pathway C - 2 years
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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
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Students must also complete one of the listed Specialisations below.

ST3064.1	Artificial Intelligence
ST3065.1	Cybersecurity
ST3053.1	Data Analytics
ST3052.1	Digital Futures
ST3054.1	Distributed Computing
ST3055.1	Health Informatics

ST3051.1	Innovation and Entrepreneurship
ST3034.1	Management
ST3049.1	Networking
ST3050.1	Web and Mobile Computing

Graduate Diploma in Information and Communications Technology

3700.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2017 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.

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 - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	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

This course has three Pathways (A, B and C) that vary in length and structure based on previous study and work experience.

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). Use the links below

to apply via UAC or Western Sydney University. Applications made directly to Western Sydney do not have an application fee.

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.

A3025.1	Graduate Diploma in Information and Communications Technology Pathway A - 1.5 years
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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.

A3026.1	Graduate Diploma in Information and Communications Technology Pathway B - 1 year
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Pathway C - One year

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

A3027.1	Graduate Diploma in Information and Communications Technology Pathway C - 1 year
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Graduate Certificate in Information and Communications Technology

3701.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2017 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.

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 - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	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

This course has three Pathways (A, B and C) that vary in length and structure based on previous study and work experience.

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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.

A3028.1	Graduate Certificate in Information and Communications Technology Pathway A - 1 year
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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.

A3029.1	Graduate Certificate in Information and Communications Technology Pathway B - 0.5 year
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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.

A3030.1	Graduate Certificate in Information and Communications Technology Pathway C - 0.5 year
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Master of Information Governance

3748.1

The Master of Information Governance (MiG) is designed to provide a new set of skills and knowledge for next

generation managers and consultants, reflecting the increasing demand for training in this area, including the recent rise in information security management issues. The structure of the degree reflects the understanding that the technical, business and legal aspects of information governance are equally important, and that the related knowledge and skills from these areas are interconnected and applied in confluence in practice. The course draws from best practice to provide professionals with systematic knowledge and skills for managing information assets and ensuring regulatory compliance, in a way that is applicable across all industries and independent of any particular technology or vendor solution.

Study Mode

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

Location

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal

Admission

Applicants must have

- Successfully completed an undergraduate degree, or higher, in any discipline, Or
- Have a minimum five years full-time professional work experience in Information and Communications Technologies or related areas and write an expression of interest outlining their experience, knowledge and skills and how it has prepared them for study. The expression of interest will be assessed by the School of Computing, Engineering and Mathematics.

Applicants must support their application with a statement of service for all work experience listed on the application. Standard English entry requirement would be enough for this course.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University. Applications made directly to Western Sydney do not have an application fee.

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 the 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

Start Year Intake - Full-time

Year 1

Quarter 1 session

200432.4 Commercial Law

Autumn session

301005.2 Professional Practice and Communication

Quarter 2 session

200433.5 Company Law

200835.2 Managing in the Global Context

Quarter 3 session

200825.3 Understanding Contemporary Organisations
200776.1 Compliance Management

Spring session

200980.1 Security of Ideas

Quarter 4 session

200841.2 Strategic Business Management

Year 2

Autumn session

200958.3 Information and Data Governance Law and Policy
300260.2 IT Project Management
300694.3 Advanced Topics in ICT
301162.1 Information Security Management

Quarter 3 session

200829.3 Business Project

Students must enrol in 200829 Business Project in both Quarter 3 and Quarter 4 sessions.

And one elective

Quarter 4 session

200829.3 Business Project

And one elective

Mid-Year Intake - Full-time**Year 1****Quarter 3 session****200432.4** Commercial Law**Spring session****301005.2** Professional Practice and Communication
200980.1 Security of Ideas**Quarter 4 session****200433.5** Company Law**Autumn session****300260.2** IT Project Management
301162.1 Information Security Management
200958.3 Information and Data Governance Law and Policy**Quarter 2 session****200835.2** Managing in the Global Context**Year 2****Quarter 3 session****200776.1** Compliance Management
200825.3 Understanding Contemporary Organisations**Spring session****300694.3** Advanced Topics in ICT**Quarter 4 session****200841.2** Strategic Business Management**Quarter 1 session****200829.3** Business Project

Students must enrol in 200829 Business Project in both Quarter 3 and Quarter 4 sessions.

And one elective

Quarter 2 session**200829.3** Business Project

And one elective

Start Year Intake - Part-time**Year 1****Quarter 1 session****200432.4** Commercial Law**Quarter 2 session****200835.2** Managing in the Global Context**Spring session****301005.2** Professional Practice and Communication**Quarter 4 session****200433.5** Company Law**Year 2****Quarter 1 session****200776.1** Compliance Management**Quarter 2 session****200825.3** Understanding Contemporary Organisations**Spring session****200980.1** Security of Ideas**Quarter 4 session****200841.2** Strategic Business Management**Year 3****Autumn session****300694.3** Advanced Topics in ICT
300260.2 IT Project Management**Quarter 3 session**

One elective

Quarter 4 session

One elective

Year 4**Autumn session****301162.1** Information Security Management
200958.3 Information and Data Governance Law and Policy**Quarter 3 session****200829.3** Business Project

Students must enrol in 200829 Business Project in both Quarter 3 and Quarter 4 sessions.

Quarter 4 session**200829.3** Business Project**Mid-Year Intake - Part-time****Year 1****Quarter 3 session****200432.4** Commercial Law

Quarter 4 session**200433.5** Company Law**Autumn session****301005.2** Professional Practice and Communication**300260.2** IT Project Management**Year 2****Spring session****200980.1** Security of Ideas**Autumn session****301162.1** Information Security Management**200958.3** Information and Data Governance Law and Policy**Quarter 2 session****200835.2** Managing in the Global Context**Year 3****Quarter 3 session****200825.3** Understanding Contemporary Organisations**Quarter 1 session****200776.1** Compliance Management**Autumn session****300694.3** Advanced Topics in ICT**Quarter 4 session****200841.2** Strategic Business Management**Year 4****Quarter 1 session**

One elective

Quarter 2 session

One elective

Quarter 3 session**200829.3** Business Project

Students must enrol in 200829 Business Project in both Quarter 3 and Quarter 4 sessions.

Quarter 4 session**200829.3** Business Project**Graduate Diploma in Project Management (exit only)****3760.1**

The course is an early exit point from 3752 - Master of Project Management.

Admission

This course is an early exit point only.

Students enrol in 3752 Master of Project Management and exit with the Graduate Diploma in Project Management.

Course Structure

Qualification for this award requires the successful completion of 120 credit points which must include

- Six 10 credit points core units and
- Six 10 credit point specialised units

Students must have enrolled and completed one Specialisation in

ST3058.1	Construction
ST3059.1	Information Technology
ST3060.1	Engineering
SP3007.1	Project Management (Generic Program)

Core Units

301194.1	Financial Management of Projects
301187.1	Managing Project Teams and Stakeholders
51240.5	Project Management
301192.1	Risk Management and Decision Making
301193.1	Strategic Project Management
301195.1	Time and Quality Management

Graduate Certificate in Project Management (exit only)**3759.1**

The course is an early exit point from 3752 - Master of Project Management.

Study Mode

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

Admission

This course is an early exit point only.

Students enrol in 3752 Master of Project Management and exit with the Graduate Certificate in Project Management.

Course Structure

Qualification for this award requires the successful completion of 60 credit points which must include

- Six 10 credit points core units

Core Units

301194.1	Financial Management of Projects
301187.1	Managing Project Teams and Stakeholders
51240.5	Project Management
301192.1	Risk Management and Decision Making
301193.1	Strategic Project Management
301195.1	Time and Quality Management

Master of Architecture (Urban Transformation)

3761.1

This course will prepare graduates for professional activities in the field of architecture. Particular emphasis is placed upon developing mastery of architectural design through studio-based teaching in the context of urban transformation and urban reconstruction opportunities of greater metropolitan Sydney and comparable global conditions. Students are required to complete a design-research thesis to demonstrate their ability to think independently, critically, and to resolve complex design issues. Additional studies in urban and contemporary architectural theory, building and design technology, electives, and professional practice constitute the overall degree.

Students enrolled in the Master of Architecture (Urban Transformation) should anticipate expenses of approximately \$200 per semester for model-making materials and large format plotting costs. All students must have their own laptop when commencing the course (minimum 8GB RAM, 512GB Hard Drive, multi-core processor, and high performance graphics card).

Completion of the Master of Architecture (Urban Transformation) will prepare students seeking to undertake doctoral level study with the necessary qualification to seek admission as a higher degree by research candidate.

In 2020, all studio units in this course will be offered at our new Westmead campus which will relocate and expand the Parramatta campus offerings.

Study Mode

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

Location

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal

Accreditation

Accreditation of the Master of Architecture (Urban Transformation) will be sought from the NSW Architects Registration Board in late 2020 to coincide with the completion of the degree by the first cohort of graduates. This process is administered by the Architects Accreditation

Council of Australia (AACA) and the program is designed to meet the guidelines of the National Competency Standards in Architecture (NCSA). Graduates of this program will be eligible to seek registration as a qualified architect in Australia upon completing a period of internship and registration exam after successfully completing the course.

Admission

Applicants must

- have successfully completed an undergraduate degree, or, higher, in architecture or the Bachelor of Architectural Design at Western Sydney with a minimum GPA of 5 or above.
- submit a high quality, maximum 15 page A4 PDF portfolio that demonstrates their design ability, and/or any relevant work experience which will be assessed by the School of Computing, Engineering and Mathematics.
- submit a sample of writing, no more than 1000 words, to demonstrate writing and critical reasoning ability. This can be a product of the applicant's previous study such as undergraduate history.

Portfolio (PDF only) formatting and content requirements

- Maximum 10MB file size
- Colour or black and white
- A4 portrait or landscape
- No embedded hyperlinks. Static files only. No security or password protection on the file
- Cover sheet with your name, email address, and phone number and 300 word maximum description of the creative content, explanation of any exceptional circumstances, and articulation of why the field of architecture is of interest
- Save the PDF file using the following name format: 2020_Autumn_SURNAME_FIRSTNAME_portfolio.pdf

Please email your portfolio to Associate Professor Mary Hardie, m.hardie@westernsydney.edu.au by 31 October 2019.

Do NOT send portfolios to WSU admissions.

No late portfolios will be accepted.

Where any work is authored by more than just the applicant, this needs to be clearly identified and credited (such as collaborative projects).

Additional information

International applicants must also provide a full transcript of their undergraduate studies.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University. Applications made directly to Western Sydney do not have an application fee.

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 the 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.

Special Requirements

A construction safety site induction card (e.g. "white card") is required to enable students to participate in site visits and field study.

Course Structure

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

Recommended Sequence

Full-time

Year 1

1H session

800166.1 Research Design 1: Theories of Enquiry

Autumn session

301237.1 Practice Research Studio 1
301239.1 Advanced Design Communication

2H session

800169.1 Research Design 2: Practices of Research

Spring session

301238.1 Practice Research Studio 2
301240.1 Integrated Building Technology

Summer A session

301104.1 Professional Practice and Building Law

Year 2

Autumn session

301241.1 Urban Transformation Thesis Studio 1
101633.2 Managing Cities: History and Theory

Spring session

301242.1 Urban Transformation Thesis Studio 2
301191.2 Project Procurement Systems

And one Alternate unit from the list below

Note: 301104 Professional Practice and Building Law is offered during the Summer A session only. This is a fully online unit with scheduled weekly Zoom meetings.

Recommended Sequence

Part-time

Year 1

1H session

800166.1 Research Design 1: Theories of Enquiry

Autumn session

301239.1 Advanced Design Communication

2H session

800169.1 Research Design 2: Practices of Research

Spring session

301240.1 Integrated Building Technology

Year 2

Autumn session

301237.1 Practice Research Studio 1

Spring session

301238.1 Practice Research Studio 2

Summer A session

301104.1 Professional Practice and Building Law

Year 3

Autumn session

101633.2 Managing Cities: History and Theory

Spring session

301191.2 Project Procurement Systems

And one Alternate unit from the list below

Year 4

Autumn session

301241.1 Urban Transformation Thesis Studio 1

Spring session

301242.1 Urban Transformation Thesis Studio 2

Note: 301104 Professional Practice and Building Law is offered during the Summer A session only. This is a fully online unit with scheduled weekly Zoom meetings.

Alternate units

Choose one of

300947.2	Building Regulations
101636.2	Developing Sustainable Places
101315.3	Financing Cities in the Global Economy
300708.4	Planning and Development Control
301190.1	Safe and Sustainable Construction
301189.1	Smart Construction
101314.3	Urban Management Practice: Governance and Power in the City

Any other Level 7 elective unit with permission of Director Academic Program

Master of Project Management

3752.1

This program is aimed at preparing future workforce with solid knowledge and application of key project management concepts and practices in varied professions and cultivating their competencies. It is expected that graduates from the programme will be proficient in domain specific customising of a project management life cycle and developing comprehensive project plans involving cost and quality control, managing risks and stakeholders and developing efficient schedules while being able to act as an effective communicator within a project team setting. Students have the option to graduate with core project management skills only (Graduate Certificate), to continue to obtain discipline-specific project management skills (Graduate Diploma), or to continue to progress with advanced research skills with a Masters' degree.

Western Sydney University is an official Academic Partner of ICCPM: students are eligible for appropriate membership benefits.

Study Mode

Two years full time or four years part-time.

Location

Campus	Attendance	Mode
Parramatta City Campus- Macquarie Street	Full Time	Internal

Admission

Applicants must have successfully completed an undergraduate degree or higher in computing, engineering or construction discipline areas.

For a student to successfully complete this course they will need to have a knowledge of computing, information technology, construction or engineering and experience with Microsoft Office suite of programs or equivalent.

Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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 as per the recommended sequence below.

Students must complete

- Six 10 credit point and two 20 credit point core units
- Six 10 credit point specialised units

Students must have enrolled and completed one Specialisation in

ST3058.1	Construction
ST3059.1	Information Technology
ST3060.1	Engineering
SP3007.1	Project Management (Generic Program)

Exit Awards

Students may exit with the 3760 - Graduate Diploma in Project Management (120 credit points) or 3759 - Graduate Certificate in Project Management (60 credit points) on completion of the relevant units as specified in the course structure. Please refer to the links below for details.

Recommended Sequence

Start-year Intake

Year 1

Autumn session

301187.2	Managing Project Teams and Stakeholders
301194.1	Financial Management of Projects
301195.1	Time and Quality Management

Quarter 2 session

51240.5	Project Management
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Spring session

301192.1	Risk Management and Decision Making
301193.1	Strategic Project Management

Specialisation Unit 1 (Construction, Information Technology or Engineering Unit)

Quarter 4 session

Specialisation Unit 2 (Business Unit)

Year 2**Autumn session****301055.3** Research Project A

Note: 301055 Research Project A is a 20 credit point unit
Specialisation Unit 3 (Construction, Information Technology
or Engineering Unit)

Quarter 2 session

Specialisation Unit 4 (Business Unit)

Spring session**301056.2** Research Project B

Note: 301056 Research Project B is a 20 credit point unit
Specialisation Unit 5 (Construction, Information Technology
or Engineering Unit)

Quarter 4 session

Specialisation Unit 6 (Business Unit)

Mid-year Intake**Year 1****Spring session**

301192.1 Risk Management and Decision Making
301193.1 Strategic Project Management

Specialisation Unit 1 (Construction, Information Technology
or Engineering Unit)

Quarter 4 session**51240.5** Project Management**Autumn session**

301187.2 Managing Project Teams and Stakeholders
301194.1 Financial Management of Projects
301195.1 Time and Quality Management

Quarter 2 session

Specialisation Unit 2 (Business Unit)

Year 2**Spring session****301055.3** Research Project A

Note: 301055 Research Project A is a 20 credit point unit
Specialisation Unit 3 (Construction, Information Technology
or Engineering Unit)

Quarter 4 session

Specialisation Unit 4 (Business Unit)

Autumn session**301056.2** Research Project B

Note: 301056 Research Project B is a 20 credit point unit
Specialisation Unit 5 (Construction, Information Technology
or Engineering Unit)

Quarter 2 session

Specialisation Unit 6 (Business Unit)

Specialisations

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

A3025.1

Applicants must have successfully completed an undergraduate degree in any discipline or A Diploma in Information and Communication Technologies, Computing or Information Systems 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 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
301005.2	Professional Practice and Communication

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

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

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
301005.2	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
301005.2	Professional Practice and Communication

Autumn session

301045.2	Advanced Topics in User System Interaction
300260.2	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.

301045.2	Advanced Topics in User System Interaction
300697.2	Content Management Systems and Web Analytics
300260.2	IT Project Management
300695.2	Network Technologies
301005.2	Professional Practice and Communication
301038.2	Programming Proficiency
301004.1	Research Preparation in Post Graduate Studies
300977.2	Systems Analysis and Database Management Systems
300696.2	Systems and Network Security
300693.3	Web Technologies

Specialised Units

301178.1	Advanced Health Classifications and Coding
301028.1	Advanced Healthcare Data Environments
301029.1	Advanced Healthcare Software and Systems
301119.1	Advanced Machine Learning
301020.1	Advanced Mobile Robotics
300599.3	Advanced Robotics
301196.1	Advanced Topics in Artificial Intelligence
301236.1	Advanced Topics in Cybersecurity
300694.3	Advanced Topics in ICT
300252.3	Advanced Topics in Networking
301235.1	Applied Cybersecurity
301046.1	Big Data
301042.1	Cloud Computing
301044.1	Data Science
301118.1	Genomic Data Science
301162.1	Information Security Management

301175.1	Internet of Things
301043.2	Mobile Computing
301163.1	Modern Software Architectures
300256.2	Multimedia Communication Systems
300255.2	Network Management
301117.1	Predictive Analytics
301113.1	Programming for Data Science
301116.1	Social Media Intelligence
300770.3	Software Testing and Automation
301114.1	The Nature of Data
301112.1	Visualisation
300443.2	Web Engineering
300389.2	Wireless Networking

The Specialisation units listed below count towards completion of this course for students who passed these units in 2017 or earlier.

300769 - Intelligent Agents for E-Markets

301041 - Service Oriented Architecture

300692 - Workflow Management Systems

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

A3026.1

Applicants must have successfully completed an Honours or Master degree in any discipline.

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
301005.2	Professional Practice and Communication

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

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

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
301005.2	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
301005.2	Professional Practice and Communication

Autumn session

301045.2	Advanced Topics in User System Interaction
300260.2	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.

301045.2	Advanced Topics in User System Interaction
300697.2	Content Management Systems and Web Analytics
300260.2	IT Project Management
300695.2	Network Technologies
301005.2	Professional Practice and Communication
301038.2	Programming Proficiency
301004.1	Research Preparation in Post Graduate Studies
300977.2	Systems Analysis and Database Management Systems
300696.2	Systems and Network Security
300693.3	Web Technologies

Specialised Units

301178.1	Advanced Health Classifications and Coding
301028.1	Advanced Healthcare Data Environments
301029.1	Advanced Healthcare Software and Systems
301119.1	Advanced Machine Learning
301020.1	Advanced Mobile Robotics
300599.3	Advanced Robotics
301196.1	Advanced Topics in Artificial Intelligence
301236.1	Advanced Topics in Cybersecurity
300694.3	Advanced Topics in ICT
300252.3	Advanced Topics in Networking
301235.1	Applied Cybersecurity
301046.1	Big Data
301042.1	Cloud Computing
301044.1	Data Science
301118.1	Genomic Data Science
301162.1	Information Security Management
301175.1	Internet of Things
301043.2	Mobile Computing
301163.1	Modern Software Architectures

300256.2	Multimedia Communication Systems
300255.2	Network Management
301117.1	Predictive Analytics
301113.1	Programming for Data Science
301116.1	Social Media Intelligence
300770.3	Software Testing and Automation
301114.1	The Nature of Data
301112.1	Visualisation
300443.2	Web Engineering
300389.2	Wireless Networking

The Specialisation units listed below count towards completion of this course for students who passed these units in 2017 or earlier.

300769 - Intelligent Agents for E-Markets
301041 - Service Oriented Architecture
300692 - Workflow Management Systems

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

A3027.1

Applicants must have successfully completed an undergraduate degree in Information and Communication Technologies, Computing or Information Systems OR An 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 An undergraduate degree in any discipline AND a Graduate Certificate or Graduate Diploma in ICT.

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
301005.2	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
301005.2	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
301005.2	Professional Practice and Communication
300260.2	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.

301045.2	Advanced Topics in User System Interaction
300697.2	Content Management Systems and Web Analytics
300260.2	IT Project Management
300695.2	Network Technologies
301005.2	Professional Practice and Communication
301038.2	Programming Proficiency
301004.1	Research Preparation in Post Graduate Studies
300977.2	Systems Analysis and Database Management Systems
300696.2	Systems and Network Security
300693.3	Web Technologies

Specialised Units

301178.1	Advanced Health Classifications and Coding
301028.1	Advanced Healthcare Data Environments
301029.1	Advanced Healthcare Software and Systems
301119.1	Advanced Machine Learning
301020.1	Advanced Mobile Robotics
300599.3	Advanced Robotics
301196.1	Advanced Topics in Artificial Intelligence
301236.1	Advanced Topics in Cybersecurity
300694.3	Advanced Topics in ICT
300252.3	Advanced Topics in Networking
301235.1	Applied Cybersecurity
301046.1	Big Data
301042.1	Cloud Computing
301044.1	Data Science
301118.1	Genomic Data Science
301162.1	Information Security Management
301175.1	Internet of Things
301043.2	Mobile Computing
301163.1	Modern Software Architectures
300256.2	Multimedia Communication Systems
300255.2	Network Management
301117.1	Predictive Analytics
301113.1	Programming for Data Science
301116.1	Social Media Intelligence
300770.3	Software Testing and Automation
301114.1	The Nature of Data

301112.1	Visualisation
300443.2	Web Engineering
300389.2	Wireless Networking

The Specialisation units listed below count towards completion of this course for students who passed these units in 2017 or earlier.

- 300769 - Intelligent Agents for E-Markets
- 301041 - Service Oriented Architecture
- 300692 - Workflow Management Systems

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

A3028.1

Applicants must have successfully completed an undergraduate degree in any discipline or a Diploma in Information and Communication Technologies, Computing or Information Systems 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

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

301005.2	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
301005.2	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
301005.2	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.

301045.2	Advanced Topics in User System Interaction
300697.2	Content Management Systems and Web Analytics
300260.2	IT Project Management
300695.2	Network Technologies
301005.2	Professional Practice and Communication
301038.2	Programming Proficiency
301004.1	Research Preparation in Post Graduate Studies
300696.2	Systems and Network Security
300977.2	Systems Analysis and Database Management Systems
300693.3	Web Technologies

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

A3029.1

Applicants must have successfully completed an Honours or Master degree in any discipline.

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

301005.2	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

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
301005.2 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
301005.2 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.

- 301045.2** Advanced Topics in User System Interaction
300697.2 Content Management Systems and Web Analytics
300260.2 IT Project Management
300695.2 Network Technologies
301005.2 Professional Practice and Communication
301038.2 Programming Proficiency
301004.1 Research Preparation in Post Graduate Studies
300696.2 Systems and Network Security
300977.2 Systems Analysis and Database
 Management Systems
300693.3 Web Technologies

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

A3030.1

Applicants must have successfully completed an undergraduate degree in Information and Communication Technologies, Computing or Information Systems OR An 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 An

undergraduate degree in any discipline AND a Graduate Certificate or Graduate Diploma in ICT.

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

- 301005.2** Professional Practice and Communication

And three units from Foundation unit list.

Full Time - Start Year Intake

Year 1

Autumn session

- 301005.2** Professional Practice and Communication

And three units from Foundation unit list.

Full Time - Mid-Year Intake

Year 1

Spring session

- 301005.2** 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.

- 301045.2** Advanced Topics in User System Interaction
300697.2 Content Management Systems and Web Analytics
300260.2 IT Project Management
300695.2 Network Technologies
301005.2 Professional Practice and Communication
301038.2 Programming Proficiency
301004.1 Research Preparation in Post Graduate Studies
300696.2 Systems and Network Security
300977.2 Systems Analysis and Database
 Management Systems
300693.3 Web Technologies

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

A3037.1

Applicants must have successfully completed an undergraduate degree 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 200 credit points including the units listed below plus 120 hours (full time or part-time equivalent) of work experience component.

Core Units

300694.3	Advanced Topics in ICT
301046.1	Big Data
300260.2	IT Project Management
300597.4	Master Project 1
300598.5	Master Project 2
300695.2	Network Technologies
301005.2	Professional Practice and Communication
301004.1	Research Preparation in Post Graduate Studies
300693.3	Web Technologies

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

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

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.

ST3064.1	Artificial Intelligence
ST3065.1	Cybersecurity
ST3053.1	Data Analytics
ST3052.1	Digital Futures
ST3054.1	Distributed Computing
ST3055.1	Health Informatics
ST3051.1	Innovation and Entrepreneurship
ST3034.1	Management
ST3049.1	Networking
ST3050.1	Web and Mobile Computing

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
301005.2	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
300260.2	IT Project Management
300597.4	Master Project 1

Spring session

300598.5	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
301005.2	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
300597.4	Master Project 1

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

Autumn session

301046.1	Big Data
300598.5	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.

301045.2	Advanced Topics in User System Interaction
300697.2	Content Management Systems and Web Analytics
300260.2	IT Project Management
300695.2	Network Technologies
301005.2	Professional Practice and Communication
301038.2	Programming Proficiency
301004.1	Research Preparation in Post Graduate Studies
300696.2	Systems and Network Security
300977.2	Systems Analysis and Database Management Systems
300693.3	Web Technologies

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.

301178.1	Advanced Health Classifications and Coding
301028.1	Advanced Healthcare Data Environments
301029.1	Advanced Healthcare Software and Systems
301119.1	Advanced Machine Learning
301020.1	Advanced Mobile Robotics
300599.3	Advanced Robotics
301196.1	Advanced Topics in Artificial Intelligence
301236.1	Advanced Topics in Cybersecurity
300694.3	Advanced Topics in ICT
300252.3	Advanced Topics in Networking
301235.1	Applied Cybersecurity
301046.1	Big Data
301042.1	Cloud Computing
301044.1	Data Science
301118.1	Genomic Data Science
301162.1	Information Security Management
301175.1	Internet of Things
301043.2	Mobile Computing
301163.1	Modern Software Architectures
300256.2	Multimedia Communication Systems
300255.2	Network Management
301117.1	Predictive Analytics
301113.1	Programming for Data Science
301116.1	Social Media Intelligence
300770.3	Software Testing and Automation
301114.1	The Nature of Data
301112.1	Visualisation
300443.2	Web Engineering
300389.2	Wireless Networking

Multi-disciplinary Units

A maximum of four units are allowed from this list.

200826.1	Contemporary People Management
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102424.1	Cyber Justice (PG)
200425.4	Economics
200850.1	Entrepreneurial Management Capabilities
200821.2	Financial Reports for Decision Making
102300.1	Foundations of Media Arts Production (PG)
102412.1	Global Digital Futures
200848.3	Governance, Ethics and Social Entrepreneurship
200852.2	Innovation, Creativity and Foresight
200851.1	Innovation for New Markets
200845.2	Innovation Through Digital Technology
200737.3	Marketing Systems
101423.3	Media Project Proposal
101743.2	Mobile Media
200849.1	New Venture Finance
101962.1	Researching Convergent Media
200971.1	Start-up
200841.2	Strategic Business Management
200825.3	Understanding Contemporary Organisations

Please note

The units listed below count towards completion of the course for students who may have passed units in the list in 2018 or earlier.

200820.2	The Contemporary Business Environment
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Postgraduate Admission Pathway - Master of Information and Communications Technology (Advanced) Pathway B - 2 year program

A3038.1

Applicants must have successfully completed an Honours or Master degree 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

300694.3	Advanced Topics in ICT
301046.1	Big Data
300260.2	IT Project Management
300597.4	Master Project 1
300598.5	Master Project 2
300695.2	Network Technologies
301005.2	Professional Practice and Communication
301004.1	Research Preparation in Post Graduate Studies
300693.3	Web Technologies

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

301045.2	Advanced Topics in User System Interaction
301038.2	Programming Proficiency

300977.2 Systems Analysis and Database Management Systems

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.

ST3064.1 Artificial Intelligence
ST3065.1 Cybersecurity
ST3053.1 Data Analytics
ST3052.1 Digital Futures
ST3054.1 Distributed Computing
ST3055.1 Health Informatics
ST3051.1 Innovation and Entrepreneurship
ST3034.1 Management
ST3049.1 Networking
ST3050.1 Web and Mobile Computing

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
301005.2 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
300260.2 IT Project Management
300597.4 Master Project 1

Spring session

300598.5 Master Project 2

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

301005.2 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

300597.4 Master Project 1

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

Autumn session

301046.1 Big Data

300598.5 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.

301045.2 Advanced Topics in User System Interaction
300697.2 Content Management Systems and Web Analytics

300260.2 IT Project Management

300695.2 Network Technologies

301005.2 Professional Practice and Communication

301038.2 Programming Proficiency

301004.1 Research Preparation in Post Graduate Studies

300696.2 Systems and Network Security

300977.2 Systems Analysis and Database Management Systems

300693.3 Web Technologies

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.

301178.1 Advanced Health Classifications and Coding

301028.1 Advanced Healthcare Data Environments

301029.1 Advanced Healthcare Software and Systems

301119.1 Advanced Machine Learning

301020.1 Advanced Mobile Robotics

300599.3 Advanced Robotics

301196.1 Advanced Topics in Artificial Intelligence

301236.1 Advanced Topics in Cybersecurity

300694.3 Advanced Topics in ICT

300252.3 Advanced Topics in Networking

301235.1 Applied Cybersecurity

301046.1 Big Data

301042.1	Cloud Computing
301044.1	Data Science
301118.1	Genomic Data Science
301162.1	Information Security Management
301175.1	Internet of Things
301043.2	Mobile Computing
301163.1	Modern Software Architectures
300256.2	Multimedia Communication Systems
300255.2	Network Management
301117.1	Predictive Analytics
301113.1	Programming for Data Science
301116.1	Social Media Intelligence
300770.3	Software Testing and Automation
301114.1	The Nature of Data
301112.1	Visualisation
300443.2	Web Engineering
300389.2	Wireless Networking

Multi-disciplinary Units

A maximum of four units are allowed from this list.

200826.1	Contemporary People Management
102424.1	Cyber Justice (PG)
200425.4	Economics
200850.1	Entrepreneurial Management Capabilities
200821.2	Financial Reports for Decision Making
102300.1	Foundations of Media Arts Production (PG)
102412.1	Global Digital Futures
200848.3	Governance, Ethics and Social Entrepreneurship
200852.2	Innovation, Creativity and Foresight
200851.1	Innovation for New Markets
200845.2	Innovation Through Digital Technology
200737.3	Marketing Systems
101423.3	Media Project Proposal
101743.2	Mobile Media
200849.1	New Venture Finance
101962.1	Researching Convergent Media
200971.1	Start-up
200841.2	Strategic Business Management
200825.3	Understanding Contemporary Organisations

Please note

The units listed below count towards completion of the course for students who may have passed units in the list in 2018 or earlier.

200820.2	The Contemporary Business Environment
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Postgraduate Admission Pathway - Master of Information and Communications Technology (Advanced) Pathway C - 2 years

A3039.1

Applicants must have successfully completed an Australian Computer Society accredited (or equivalent) undergraduate degree in Information and Communication Technologies, Computing or Information Systems OR An undergraduate degree in any discipline and a Graduate Certificate or Graduate Diploma in ICT.

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

300694.3	Advanced Topics in ICT
301046.1	Big Data
300260.2	IT Project Management
300597.4	Master Project 1
300598.5	Master Project 2
300695.2	Network Technologies
301005.2	Professional Practice and Communication
301004.1	Research Preparation in Post Graduate Studies
300693.3	Web Technologies

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

301047.1	ICT Practicum
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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.

ST3064.1	Artificial Intelligence
ST3065.1	Cybersecurity
ST3053.1	Data Analytics
ST3052.1	Digital Futures
ST3054.1	Distributed Computing
ST3055.1	Health Informatics
ST3051.1	Innovation and Entrepreneurship
ST3034.1	Management
ST3049.1	Networking
ST3050.1	Web and Mobile Computing

Full Time - Start Year Intake

Year 1

Autumn session

300695.2	Network Technologies
300260.2	IT Project Management
301005.2	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
300597.4 Master Project 1

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

Spring session

300598.5 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
301005.2 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
300597.4 Master Project 1

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

Autumn session

300598.5 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.

301045.2 Advanced Topics in User System Interaction
300697.2 Content Management Systems and Web Analytics
300260.2 IT Project Management
300695.2 Network Technologies
301005.2 Professional Practice and Communication
301038.2 Programming Proficiency
301004.1 Research Preparation in Post Graduate Studies

300696.2 Systems and Network Security
300977.2 Systems Analysis and Database Management Systems
300693.3 Web Technologies

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.

301178.1 Advanced Health Classifications and Coding
301028.1 Advanced Healthcare Data Environments
301029.1 Advanced Healthcare Software and Systems
301119.1 Advanced Machine Learning
301020.1 Advanced Mobile Robotics
300599.3 Advanced Robotics
301196.1 Advanced Topics in Artificial Intelligence
301236.1 Advanced Topics in Cybersecurity
300694.3 Advanced Topics in ICT
300252.3 Advanced Topics in Networking
301235.1 Applied Cybersecurity
301046.1 Big Data
301042.1 Cloud Computing
301044.1 Data Science
301118.1 Genomic Data Science
301162.1 Information Security Management
301175.1 Internet of Things
301043.2 Mobile Computing
301163.1 Modern Software Architectures
300256.2 Multimedia Communication Systems
300255.2 Network Management
301117.1 Predictive Analytics
301113.1 Programming for Data Science
301116.1 Social Media Intelligence
300770.3 Software Testing and Automation
301114.1 The Nature of Data
301112.1 Visualisation
300443.2 Web Engineering
300389.2 Wireless Networking

Multi-disciplinary Units

A maximum of four units are allowed from this list.

200826.1 Contemporary People Management
102424.1 Cyber Justice (PG)
200425.4 Economics
200850.1 Entrepreneurial Management Capabilities
200821.2 Financial Reports for Decision Making
102300.1 Foundations of Media Arts Production (PG)
102412.1 Global Digital Futures
200848.3 Governance, Ethics and Social Entrepreneurship
200852.2 Innovation, Creativity and Foresight
200851.1 Innovation for New Markets
200845.2 Innovation Through Digital Technology
200737.3 Marketing Systems
101423.3 Media Project Proposal
101743.2 Mobile Media
200849.1 New Venture Finance
101962.1 Researching Convergent Media
200971.1 Start-up
200841.2 Strategic Business Management
200825.3 Understanding Contemporary Organisations

Please note

The units listed below count towards completion of the course for students who may have passed units in the list in 2018 or earlier.

200820.2 The Contemporary Business Environment

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

A3040.1

Applicants must have successfully completed an undergraduate degree 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 160 credit points including the units listed below plus 120 hours (full time or part-time equivalent) of work experience component.

Core Units

300260.2	IT Project Management
300597.4	Master Project 1
300695.2	Network Technologies
301005.2	Professional Practice and Communication
301004.1	Research Preparation in Post Graduate Studies

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

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

Students must 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.

Parramatta Campus

ST3064.1	Artificial Intelligence
ST3065.1	Cybersecurity
ST3053.1	Data Analytics
ST3052.1	Digital Futures
ST3054.1	Distributed Computing
ST3055.1	Health Informatics
ST3051.1	Innovation and Entrepreneurship
ST3034.1	Management
ST3049.1	Networking

ST3050.1	Web and Mobile Computing
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Sydney City Campus

ST3049.1	Networking
ST3050.1	Web and Mobile Computing

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
301005.2	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
300597.4	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
301005.2	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

300597.4	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.

301045.2	Advanced Topics in User System Interaction
300697.2	Content Management Systems and Web Analytics
300260.2	IT Project Management
300695.2	Network Technologies
301005.2	Professional Practice and Communication
301038.2	Programming Proficiency
301004.1	Research Preparation in Post Graduate Studies
300696.2	Systems and Network Security
300977.2	Systems Analysis and Database Management Systems
300693.3	Web Technologies

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.

301178.1	Advanced Health Classifications and Coding
301028.1	Advanced Healthcare Data Environments
301029.1	Advanced Healthcare Software and Systems
301119.1	Advanced Machine Learning
301020.1	Advanced Mobile Robotics
300599.3	Advanced Robotics
301196.1	Advanced Topics in Artificial Intelligence
301236.1	Advanced Topics in Cybersecurity
300694.3	Advanced Topics in ICT
300252.3	Advanced Topics in Networking
301235.1	Applied Cybersecurity
301046.1	Big Data
301042.1	Cloud Computing
301044.1	Data Science
301118.1	Genomic Data Science
301162.1	Information Security Management
301175.1	Internet of Things
301043.2	Mobile Computing
301163.1	Modern Software Architectures
300256.2	Multimedia Communication Systems
300255.2	Network Management
301117.1	Predictive Analytics
301113.1	Programming for Data Science
301116.1	Social Media Intelligence
300770.3	Software Testing and Automation
301114.1	The Nature of Data
301112.1	Visualisation
300443.2	Web Engineering
300389.2	Wireless Networking

Multi-disciplinary Units

A maximum of four units are allowed from this list.

200826.1	Contemporary People Management
102424.1	Cyber Justice (PG)
200425.4	Economics
200850.1	Entrepreneurial Management Capabilities
200821.2	Financial Reports for Decision Making
102300.1	Foundations of Media Arts Production (PG)
102412.1	Global Digital Futures
200848.3	Governance, Ethics and Social Entrepreneurship
200852.2	Innovation, Creativity and Foresight
200851.1	Innovation for New Markets
200845.2	Innovation Through Digital Technology
200737.3	Marketing Systems
101423.3	Media Project Proposal
101743.2	Mobile Media
200849.1	New Venture Finance
101962.1	Researching Convergent Media
200971.1	Start-up
200841.2	Strategic Business Management
200825.3	Understanding Contemporary Organisations

Please note

The units listed below count towards completion of the course for students who may have passed units in the list in 2018 or earlier.

200820.2	The Contemporary Business Environment
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Postgraduate Admission Pathway - Master of Information and Communications Technology Pathway B - 1.5 years

A3041.1

Applicants must have successfully completed an Honours or Master degree 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

300260.2	IT Project Management
300597.4	Master Project 1
300695.2	Network Technologies
301005.2	Professional Practice and Communication
301004.1	Research Preparation in Post Graduate Studies

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

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

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.

Parramatta Campus

ST3064.1	Artificial Intelligence
ST3065.1	Cybersecurity
ST3053.1	Data Analytics
ST3052.1	Digital Futures
ST3054.1	Distributed Computing
ST3055.1	Health Informatics
ST3051.1	Innovation and Entrepreneurship
ST3034.1	Management
ST3049.1	Networking
ST3050.1	Web and Mobile Computing

Sydney City Campus

ST3049.1	Networking
ST3050.1	Web and Mobile Computing

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
301005.2	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
300597.4	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

301005.2 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

300597.4	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.

301045.2	Advanced Topics in User System Interaction
300697.2	Content Management Systems and Web Analytics
300260.2	IT Project Management
300695.2	Network Technologies
301005.2	Professional Practice and Communication
301038.2	Programming Proficiency
301004.1	Research Preparation in Post Graduate Studies
300696.2	Systems and Network Security
300977.2	Systems Analysis and Database Management Systems
300693.3	Web Technologies

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.

301178.1	Advanced Health Classifications and Coding
301028.1	Advanced Healthcare Data Environments
301029.1	Advanced Healthcare Software and Systems
301119.1	Advanced Machine Learning
301020.1	Advanced Mobile Robotics
300599.3	Advanced Robotics
301196.1	Advanced Topics in Artificial Intelligence
301236.1	Advanced Topics in Cybersecurity
300694.3	Advanced Topics in ICT
300252.3	Advanced Topics in Networking
301235.1	Applied Cybersecurity
301046.1	Big Data
301042.1	Cloud Computing
301044.1	Data Science
301118.1	Genomic Data Science
301162.1	Information Security Management
301175.1	Internet of Things
301043.2	Mobile Computing
301163.1	Modern Software Architectures
300256.2	Multimedia Communication Systems
300255.2	Network Management
301117.1	Predictive Analytics

301113.1	Programming for Data Science
301116.1	Social Media Intelligence
300770.3	Software Testing and Automation
301114.1	The Nature of Data
301112.1	Visualisation
300443.2	Web Engineering
300389.2	Wireless Networking

Multi-disciplinary Units

A maximum of four units are allowed from this list.

200826.1	Contemporary People Management
102424.1	Cyber Justice (PG)
200425.4	Economics
200850.1	Entrepreneurial Management Capabilities
200821.2	Financial Reports for Decision Making
102300.1	Foundations of Media Arts Production (PG)
102412.1	Global Digital Futures
200848.3	Governance, Ethics and Social Entrepreneurship
200852.2	Innovation, Creativity and Foresight
200851.1	Innovation for New Markets
200845.2	Innovation Through Digital Technology
200737.3	Marketing Systems
101423.3	Media Project Proposal
101743.2	Mobile Media
200849.1	New Venture Finance
101962.1	Researching Convergent Media
200971.1	Start-up
200841.2	Strategic Business Management
200825.3	Understanding Contemporary Organisations

Please note

The units listed below count towards completion of the course for students who may have passed units in the list in 2018 or earlier.

200820.2	The Contemporary Business Environment
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Postgraduate Admission Pathway - Master of Information and Communications Technology Pathway C - 1.5 years

A3042.1

Applicants must have successfully completed an Australian Computer Society accredited (or equivalent) undergraduate degree in Information and Communication Technologies, Computing or Information Systems OR An undergraduate degree in any discipline AND a Graduate Certificate or Graduate Diploma in ICT.

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

300260.2	IT Project Management
300597.4	Master Project 1
300695.2	Network Technologies
301005.2	Professional Practice and Communication
301004.1	Research Preparation in Post Graduate Studies

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 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.

Parramatta Campus

ST3064.1	Artificial Intelligence
ST3065.1	Cybersecurity
ST3053.1	Data Analytics
ST3052.1	Digital Futures
ST3054.1	Distributed Computing
ST3055.1	Health Informatics
ST3051.1	Innovation and Entrepreneurship
ST3034.1	Management
ST3049.1	Networking
ST3050.1	Web and Mobile Computing

Sydney City Campus

ST3049.1	Networking
ST3050.1	Web and Mobile Computing

Full Time - Start Year Intake

Year 1

Autumn session

300695.2	Network Technologies
300260.2	IT Project Management
301005.2	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

300597.4	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
301005.2 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

- 300597.4** 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.

- 301045.2** Advanced Topics in User System Interaction
300697.2 Content Management Systems and Web Analytics
300260.2 IT Project Management
300695.2 Network Technologies
301005.2 Professional Practice and Communication
301038.2 Programming Proficiency
301004.1 Research Preparation in Post Graduate Studies
300696.2 Systems and Network Security
300977.2 Systems Analysis and Database Management Systems
300693.3 Web Technologies

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.

- 301178.1** Advanced Health Classifications and Coding
301028.1 Advanced Healthcare Data Environments
301029.1 Advanced Healthcare Software and Systems
301119.1 Advanced Machine Learning
301020.1 Advanced Mobile Robotics
300599.3 Advanced Robotics
301196.1 Advanced Topics in Artificial Intelligence
301236.1 Advanced Topics in Cybersecurity
300694.3 Advanced Topics in ICT
300252.3 Advanced Topics in Networking
301235.1 Applied Cybersecurity
301046.1 Big Data

- 301042.1** Cloud Computing
301044.1 Data Science
301118.1 Genomic Data Science
301162.1 Information Security Management
301175.1 Internet of Things
301043.2 Mobile Computing
301163.1 Modern Software Architectures
300256.2 Multimedia Communication Systems
300255.2 Network Management
301117.1 Predictive Analytics
301113.1 Programming for Data Science
301116.1 Social Media Intelligence
300770.3 Software Testing and Automation
301114.1 The Nature of Data
301112.1 Visualisation
300443.2 Web Engineering
300389.2 Wireless Networking

Multi-disciplinary Units

A maximum of four units are allowed from this list.

- 200826.1** Contemporary People Management
102424.1 Cyber Justice (PG)
200425.4 Economics
200850.1 Entrepreneurial Management Capabilities
200821.2 Financial Reports for Decision Making
102300.1 Foundations of Media Arts Production (PG)
102412.1 Global Digital Futures
200848.3 Governance, Ethics and Social Entrepreneurship
200852.2 Innovation, Creativity and Foresight
200851.1 Innovation for New Markets
200845.2 Innovation Through Digital Technology
200737.3 Marketing Systems
101423.3 Media Project Proposal
101743.2 Mobile Media
200849.1 New Venture Finance
101962.1 Researching Convergent Media
200971.1 Start-up
200841.2 Strategic Business Management
200825.3 Understanding Contemporary Organisations

Please note

The units listed below count towards completion of the course for students who may have passed units in the list in 2018 or earlier.

- 200820.2** The Contemporary Business Environment

Postgraduate Specialisation - Project Management (Generic Program)

SP3007.1

Location

Campus

Mode

Parramatta City Campus-Macquarie Street Internal

Specialisation Structure

Business Units

Choose three of

200826.1	Contemporary People Management
200821.2	Financial Reports for Decision Making
200848.3	Governance, Ethics and Social Entrepreneurship
200835.2	Managing in the Global Context
200841.2	Strategic Business Management
200329.4	Supply Chain Management

Project Management - Generic Program

Choose three of

201019.1	Business Analytics in Practice
200776.1	Compliance Management
101897.1	Development for Equality
101636.2	Developing Sustainable Places
200828.1	Diversity, Labour Markets and Workforce Planning
102575.1	Emergency and Disaster Management
200717.2	Employment Relations Professional Practice
101315.3	Financing Cities in the Global Economy
400845.2	Health Financial Management
400844.2	Health Services and Facilities Planning
102069.1	Heritage and Planning
200719.2	Industrial Relations and Workplace Change
200792.2	Innovation, Creativity and Entrepreneurship
400235.2	Leadership in Clinical Practice
100701.1	Leadership, Mentoring and Professional Growth
101633.2	Managing Cities: History and Theory
401081.1	Organisational Governance and Performance Management
101634.2	Planning and Environmental Regulation
101895.1	Political Economy of Development
102574.1	Public Health in Complex Emergencies (Advanced)
200721.2	Reward Management
300677.3	Safety and Risk Management
400838.2	Supporting Individuals and Communities in Crisis
400847.3	Surveillance and Disaster Planning
101314.3	Urban Management Practice: Governance and Power in the City

Postgraduate Specialisation - Civil

ST3027.1

Location

Campus	Mode
Parramatta City Campus-Macquarie Street	Internal
Penrith Campus	Internal

Specialisation Structure

From 2017 the Postgraduate Engineering courses will be offered at Parramatta campus and will no longer be offered at Penrith campus.

To complete some of the components within the units in this course, students may be required to travel to other Western Sydney University campuses.

Civil Specialised Alternate units

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

Students enrolled in 3693 Master of Engineering choose five specialist units from the list below

Students exiting with 3694 Graduate Diploma in Engineering (Exit only) choose four specialised alternate units

Students enrolled in 3695 Graduate Certificate in Engineering choose four specialised alternate units

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

Postgraduate Specialisation - Electrical

ST3028.1

Location

Campus	Mode
Parramatta City Campus-Macquarie Street	Internal
Penrith Campus	Internal

Specialisation Structure

From 2017 the Postgraduate Engineering courses will be offered at Parramatta campus and will no longer be offered at Penrith campus.

To complete some of the components within the units in this course, students may be required to travel to other Western Sydney University campuses.

Electrical Specialised Alternate Units

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

Students enrolled in 3693 Master of Engineering choose five specialist units from the list below

Students exiting with 3694 Graduate Diploma in Engineering (Exit only) choose four specialised alternate units

Students enrolled in 3695 Graduate Certificate in Engineering choose four specialised alternate units

300603.3	Advanced Control Systems
300601.3	Advanced Electrical Machines and Drives
301025.1	Advanced Power Quality
300596.3	Advanced Signal Processing

301026.1	Advanced Smart Grids and Distributed Generation
300515.4	Instrumentation and Measurement (PG)
300196.3	Personal Communication Systems
300197.3	Power System Planning and Economics

Postgraduate Specialisation - Environmental

ST3029.1

Location

Campus	Mode
Parramatta City Campus-Macquarie Street	Internal
Penrith Campus	Internal

Specialisation Structure

From 2017 the Postgraduate Engineering courses will be offered at Parramatta campus and will no longer be offered at Penrith campus.

To complete some of the components within the units in this course, students may be required to travel to other Western Sydney University campuses.

Environmental Specialised Alternate Units

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

Students enrolled in 3693 Master of Engineering choose five specialist units from the list below

Students exiting with 3694 Graduate Diploma in Engineering (Exit only) choose four specialised alternate units

Students enrolled in 3695 Graduate Certificate in Engineering choose four specialised alternate units

301017.1	Advanced Waste Management
301016.1	Advanced Water and Wastewater Treatment
200458.3	Building in Bushfire Prone Areas
101634.2	Planning and Environmental Regulation
300677.3	Safety and Risk Management
300939.2	Sustainability and Risk Engineering (PG)

Postgraduate Specialisation - Mechanical

ST3030.1

Location

Campus	Mode
Parramatta City Campus-Macquarie Street	Internal
Penrith Campus	Internal

Specialisation Structure

From 2017 the Postgraduate Engineering courses will be offered at Parramatta campus and will no longer be offered at Penrith campus.

To complete some of the components within the units in this course, students may be required to travel to other Western Sydney University campuses.

Mechanical Specialised Alternate Units

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

Students enrolled in 3693 Master of Engineering choose five specialist units from the list below

Students exiting with 3694 Graduate Diploma in Engineering (Exit only) choose four specialised alternate units

Students enrolled in 3695 Graduate Certificate in Engineering choose four specialised alternate units

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

Postgraduate Specialisation - Mechatronic

ST3031.1

Location

Campus	Mode
Parramatta City Campus-Macquarie Street	Internal
Penrith Campus	Internal

Specialisation Structure

From 2017 the Postgraduate Engineering courses will be offered at Parramatta campus and will no longer be offered at Penrith campus.

To complete some of the components within the units in this course, students may be required to travel to other Western Sydney University campuses.

Mechatronic Specialised Alternate Units

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

Students enrolled in 3693 Master of Engineering choose five specialist units from the list below

Students exiting with 3694 Graduate Diploma in Engineering (Exit only) choose four specialised alternate units

Students enrolled in 3695 Graduate Certificate in Engineering choose four specialised alternate units

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

**Postgraduate Specialisation -
Telecommunication****ST3032.1****Location**

Campus	Mode
Parramatta City Campus-Macquarie Street	Internal
Penrith Campus	Internal

Specialisation Structure

From 2017 the Postgraduate Engineering courses will be offered at Parramatta campus and will no longer be offered at Penrith campus.

To complete some of the components within the units in this course, students may be required to travel to other Western Sydney University campuses.

Telecommunication Specialised Alternate Units

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

Students enrolled in 3693 Master of Engineering choose five specialist units from the list below

Students exiting with 3694 Graduate Diploma in Engineering (Exit only) choose four specialised alternate units

Students enrolled in 3695 Graduate Certificate in Engineering choose four specialised alternate units

300173.3	Advanced Data Networks
300596.3	Advanced Signal Processing
300515.4	Instrumentation and Measurement (PG)
300256.2	Multimedia Communication Systems
300255.2	Network Management
300196.3	Personal Communication Systems
300389.2	Wireless Networking

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 - Victoria Road	Internal

Specialisation Structure

Students must complete

200821.2	Financial Reports for Decision Making
200825.3	Understanding Contemporary Organisations
200820.2	The Contemporary Business Environment

From Autumn 2019, 200820 The Contemporary Business Environment will be replaced by 200737 Marketing Systems. Students are advised to select 200737.

200737.3	Marketing Systems
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And one unit from the following

200826.1	Contemporary People Management
200425.4	Economics
200848.3	Governance, Ethics and Social Entrepreneurship
200841.2	Strategic Business Management

Postgraduate Specialisation - Networking**ST3049.1**

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.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Sydney City Campus	Internal

Specialisation Structure

Students must complete four units from the following

300252.3	Advanced Topics in Networking
301175.1	Internet of Things
300256.2	Multimedia Communication Systems
300696.2	Systems and Network Security
300389.2	Wireless Networking

Postgraduate Specialisation - Web and Mobile Computing

ST3050.1

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 - Victoria Road	Internal
Sydney City Campus	Internal

Specialisation Structure

Students must complete four of the following units

301045.2	Advanced Topics in User System Interaction
301043.2	Mobile Computing
301163.1	Modern Software Architectures
300770.3	Software Testing and Automation
300443.2	Web Engineering

Postgraduate Specialisation - Innovation and Entrepreneurship

ST3051.1

Entrepreneurship, innovation and new markets are pertinent activities that have collectively become cornerstones of how firms grow and interact with society. This specialisation is aimed at developing knowledge and skills in the processes to create new economic and social value, seeking funding for new ventures, application of digital technologies in emerging businesses and developing start-ups and rejuvenating existing businesses.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must complete the following two units

200852.2	Innovation, Creativity and Foresight
200849.1	New Venture Finance

And two units or 20 credit points from the following

200850.1	Entrepreneurial Management Capabilities
200851.1	Innovation for New Markets
200845.2	Innovation Through Digital Technology
200971.1	Start-up

Postgraduate Specialisation - Digital Futures

ST3052.1

Digital technology is influencing practically every aspect of today's knowledge economy and is driving advances in all sectors of society. Many jobs require broad competencies and understandings of the powerful role of technology in society. There is also an increasing demand for practical computing and software skills including for research and analysis of data. This specialisation will allow students to develop practical as well as theoretical skills in this field.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must complete the following two units

102412.1	Global Digital Futures
101743.2	Mobile Media

And two units or 20cp from the following

102424.1	Cyber Justice (PG)
102300.1	Foundations of Media Arts Production (PG)
101423.3	Media Project Proposal
101962.1	Researching Convergent Media

Postgraduate Specialisation - Data Analytics

ST3053.1

Extracting information from data has become a science in itself, blending skill sets from mathematics, statistics and computing. With a strong applications focus, this specialisation covers the nature of data, how to embark on data driven investigations and visual and computational analytics. Graduates will have the knowledge and skills required to operate effectively in a data driven world.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Multi Modal

Specialisation Structure

Students must complete the following three units

301044.1	Data Science
301117.1	Predictive Analytics
301114.1	The Nature of Data

And one unit from the following

301113.1	Programming for Data Science
301116.1	Social Media Intelligence
301112.1	Visualisation

Postgraduate Specialisation - Distributed Computing

ST3054.1

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.

Specialisation Structure

Students must complete the following four units

301042.1	Cloud Computing
301046.1	Big Data
301163.1	Modern Software Architectures
300696.2	Systems and Network Security

Postgraduate Specialisation - Health Informatics

ST3055.1

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.

Specialisation Structure

Students must complete the following three units

301178.1	Advanced Health Classifications and Coding
301028.1	Advanced Healthcare Data Environments
301029.1	Advanced Healthcare Software and Systems

And one unit from the following:

301118.1	Genomic Data Science
301163.1	Modern Software Architectures
301112.1	Visualisation

Postgraduate Specialisation - Construction

ST3058.1

Location

Campus	Mode
Parramatta City Campus-Macquarie Street	Internal

Specialisation Structure

Business Units

Choose three of

200826.1	Contemporary People Management
200821.2	Financial Reports for Decision Making
200848.3	Governance, Ethics and Social Entrepreneurship
200835.2	Managing in the Global Context
200841.2	Strategic Business Management
200329.4	Supply Chain Management

Construction Units

Choose three of

301188.1	Advanced Contract Management
300947.2	Building Regulations
301050.1	Disaster and Emergency Management (PG)
301103.1	Interpreting Building Regulations (Residential Buildings)
300708.4	Planning and Development Control
301191.2	Project Procurement Systems
301190.1	Safe and Sustainable Construction
301189.1	Smart Construction

Postgraduate Specialisation - Information Technology

ST3059.1

Location

Campus	Mode
Parramatta City Campus-Macquarie Street	Multi Modal

Specialisation Structure

Business Units

Choose three of

200826.1	Contemporary People Management
200821.2	Financial Reports for Decision Making
200848.3	Governance, Ethics and Social Entrepreneurship
200835.2	Managing in the Global Context
200841.2	Strategic Business Management
200329.4	Supply Chain Management

Information Technology Units

Choose three of

301178.1	Advanced Health Classifications and Coding
301028.1	Advanced Healthcare Data Environments
301029.1	Advanced Healthcare Software and Systems
301196.1	Advanced Topics in Artificial Intelligence
300252.3	Advanced Topics in Networking
301046.1	Big Data
301042.1	Cloud Computing
300697.2	Content Management Systems and Web Analytics
301044.1	Data Science
301162.1	Information Security Management
301175.1	Internet of Things
300260.2	IT Project Management
301163.1	Modern Software Architectures
300256.2	Multimedia Communication Systems
301117.1	Predictive Analytics
301113.1	Programming for Data Science
301116.1	Social Media Intelligence
300770.3	Software Testing and Automation
300696.2	Systems and Network Security
301114.1	The Nature of Data
301112.1	Visualisation
300443.2	Web Engineering
300389.2	Wireless Networking

Postgraduate Specialisation - Engineering

ST3060.1

Location

Campus	Mode
Parramatta City Campus-Macquarie Street	Internal

Specialisation Structure

Business Units

Choose three of

200826.1	Contemporary People Management
200821.2	Financial Reports for Decision Making
200848.3	Governance, Ethics and Social Entrepreneurship
200835.2	Managing in the Global Context
200841.2	Strategic Business Management
200329.4	Supply Chain Management

Engineering Units

Choose three of

301010.1	Advanced Applied Mechanics
301008.1	Advanced Composite Structures
301023.1	Advanced Computational Fluid Dynamics
301022.1	Advanced Computer Aided Engineering
300603.3	Advanced Control Systems
300173.3	Advanced Data Networks
301019.1	Advanced Dynamic Systems
300601.3	Advanced Electrical Machines and Drives
300604.3	Advanced Geotechnical Engineering
301011.1	Advanced Highway Infrastructure
301014.1	Advanced Hydrogeology
301020.1	Advanced Mobile Robotics
301024.1	Advanced Numerical Methods in Engineering
301025.1	Advanced Power Quality

300599.3	Advanced Robotics
300596.3	Advanced Signal Processing
301026.1	Advanced Smart Grids and Distributed Generation
301013.1	Advanced Statistical Hydrology
300594.4	Advanced Structural Analysis
301021.1	Advanced Thermal and Fluid Engineering
301009.1	Advanced Timber Structures
301017.1	Advanced Waste Management
301016.1	Advanced Water and Wastewater Treatment
300595.3	Advanced Water Engineering
301015.1	Deep Foundations
300515.4	Instrumentation and Measurement (PG)
301018.1	Mechanical System Design
300600.3	Mechatronic System Design
300196.3	Personal Communication Systems
300197.3	Power System Planning and Economics
300939.2	Sustainability and Risk Engineering (PG)
301012.1	Water Resources Systems Analysis

Postgraduate Specialisation - Biomedical

ST3062.1

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Parramatta City Campus-Macquarie Street	Internal

Specialisation Structure

To complete some of the components within the units in this course, students may be required to travel to other Western Sydney University campuses.

Biomedical Specialised Alternate Units

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

Students enrolled in 3693 Master of Engineering choose five specialist units from the list below

Students exiting with 3694 Graduate Diploma in Engineering (Exit only) choose four specialised alternate units

Students enrolled in 3695 Graduate Certificate in Engineering choose four specialised alternate units

301211.1	Advanced Biomedical Data and Images
301209.1	Advanced Biomedical Electronics
300599.3	Advanced Robotics
300596.3	Advanced Signal Processing
301210.1	Human Physiology and Biomedical Technologies
300515.4	Instrumentation and Measurement (PG)
401077.1	Introduction to Biostatistics

Postgraduate Specialisation - Artificial Intelligence

ST3064.1

Artificial Intelligence (AI) is a fast growing area in computer science with a broad range of applications. The Artificial Intelligence specialisation aims to develop graduates with advanced knowledge and skills in the discipline of artificial intelligence and machine learning. This specialisation covers fundamental statistical analysis, machine learning, deep learning as well as AI applications. Students will also learn the basic theories and algorithms that are essential in the design and development of intelligent systems.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must complete 40 credit points as follows

301119.1	Advanced Machine Learning
301196.1	Advanced Topics in Artificial Intelligence
301117.1	Predictive Analytics
301114.1	The Nature of Data

Postgraduate Specialisation - Cybersecurity

ST3065.1

Cybersecurity is a fundamental aspect of information and communication systems and protecting these systems from various attacks and threats is becoming one of the major technology challenges for public and private sectors. The Cybersecurity specialisation aims to develop graduates with advanced knowledge and skills in the discipline of information and communication security. This specialisation covers fundamental knowledge in system and network security, security protocols and their applications in computer systems and networked systems such as cloud computing. Students will also learn other related topics such as artificial intelligence and visualisation and their application in cybersecurity development.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must complete 40 credit points as follows

Complete the following three units

301236.1	Advanced Topics in Cybersecurity
301235.1	Applied Cybersecurity
300696.2	Systems and Network Security

Choose one of

301042.1	Cloud Computing
301196.1	Advanced Topics in Artificial Intelligence
301162.1	Information Security Management
301112.1	Visualisation

SCHOOL OF SCIENCE AND HEALTH

Graduate Certificate in Aged Care Management

4756.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is Spring 2019 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 course will allow staff, particularly those in supervisory and management positions, working in health and aged care organisations, charitable organisations and the private sector to up-skill their management knowledge by exposing them to contemporary issues in aged care. This will equip graduates of this course to position themselves at the forefront of innovation in the organisation and delivery of quality aged care services.

Study Mode

One year part time

Location

Campus	Attendance	Mode
Online	Part Time	Multi Modal
Parramatta Campus - Victoria Road	Part Time	Internal

Admission

An undergraduate degree or higher in health, health administration, welfare or aged care environment OR 3 years full-time equivalent work experience in health; health administration; aged care

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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 the 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 which include the units listed in the recommended sequence below.

Recommended sequence

Part-time

Year 1

Autumn session

400843.2	Health Workforce Planning
400837.3	Health and Socio-political Issues in Aged Care

Spring session

400845.2	Health Financial Management
400777.4	Leadership for Quality and Safety in Health Care

Graduate Diploma in Aged Care Management

4757.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is Spring 2019 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 course will allow staff, particularly those in supervisory and management positions, working in health and aged care organisations, charitable organisations and the private sector to up-skill their management knowledge by exposing them to contemporary issues in aged care. This will equip graduates of this course to position themselves at the forefront of innovation in the organisation and delivery of quality aged care services.

Study Mode

1 year full-time or 2 years part-time

Location

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

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal

Admission

An undergraduate or higher degree in health, health administration, welfare or aged care environment

Or

A graduate diploma or graduate certificate in any discipline AND two years full-time equivalent work experience in health; health administration; aged care

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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 the 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.

Recommended sequence

Full-time

Year 1

Autumn session

400843.2	Health Workforce Planning
400837.3	Health and Socio-political Issues in Aged Care
400846.3	Building Organisational Capacity in Health Care

And one alternate unit

Spring session

400845.2	Health Financial Management
400777.4	Leadership for Quality and Safety in Health Care
401081.1	Organisational Governance and Performance Management

And one alternate unit

Alternate Units

300391.2	Occupational Health Management
400241.3	Supporting Aged Communities
400841.2	A Global Perspective on Social Determinants of Health
400844.2	Health Services and Facilities Planning
400967.2	Health Economics and Comparative Health Systems

Part-time

Year 1

Autumn session

400843.2	Health Workforce Planning
400837.3	Health and Socio-political Issues in Aged Care

Spring session

400845.2	Health Financial Management
400777.4	Leadership for Quality and Safety in Health Care

Year 2

Autumn session

400846.3	Building Organisational Capacity in Health Care
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And one alternate unit

Spring session

401081.1	Organisational Governance and Performance Management
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And one alternate unit

Alternate Units

300391.2	Occupational Health Management
400241.3	Supporting Aged Communities
400841.2	A Global Perspective on Social Determinants of Health
400844.2	Health Services and Facilities Planning
400967.2	Health Economics and Comparative Health Systems

Graduate Diploma in Aged Care Management

4757.1

This course will allow staff, particularly those in supervisory and management positions, working in health and aged care organisations, charitable organisations and the private sector to up-skill their management knowledge by exposing them to contemporary issues in aged care. This will equip graduates of this course to position themselves at the forefront of innovation in the organisation and delivery of quality aged care services.

Study Mode

Two years part-time.

Location

Campus Attendance Mode

Online Part Time Multi Modal

Admission

An undergraduate or higher degree in health, health administration, welfare or aged care environment

Or

A graduate diploma or graduate certificate in any discipline and two years full-time equivalent work experience in health; health administration; aged care

And

Be employees of Opal Aged Care who have been selected by Opal Aged Care to receive a Scholarship to undertake the course.

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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 80 credit points which include the units listed in the recommended sequence below.

Recommended sequence

Part-time pathway

Year 1

Autumn

400843.3 Health Workforce Planning
400837.3 Health and Socio-political Issues in Aged Care

Spring

400845.2 Health Financial Management
400777.4 Leadership for Quality and Safety in Health Care

Year 2

Autumn

400778.2 Leadership and the Development of Organisational Capacity

Choose one Alternate unit from the list below

Spring

401081.2 Organisational Governance and Performance Management

Choose one Alternate unit from the list below

Alternate Units

400846.3 Building Organisational Capacity in Health Care
400967.2 Health Economics and Comparative Health Systems
400844.2 Health Services and Facilities Planning

Graduate Certificate in Aged Care Management

4756.1

This course will allow staff, particularly those in supervisory and management positions, working in health and aged care organisations, charitable organisations and the private sector to up-skill their management knowledge by exposing them to contemporary issues in aged care. This will equip graduates of this course to position themselves at the forefront of innovation in the organisation and delivery of quality aged care services.

Study Mode

One year part-time.

Location

Campus Attendance Mode

Online Part Time Multi Modal

Admission

An undergraduate degree or higher in health, health administration, welfare or aged care environment

Or

Three years full-time equivalent work experience in health; health administration; aged care

And

Be employees of Opal Aged Care who have been selected by Opal Aged Care to receive a Scholarship to undertake the course.

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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 40 credit points which include the units listed in the recommended sequence below.

Recommended Sequence

Part-time Pathway

Year 1

Autumn

400843.3	Health Workforce Planning
400837.3	Health and Socio-political Issues in Aged Care

Spring

400845.2	Health Financial Management
400777.4	Leadership for Quality and Safety in Health Care

Master of Chinese Medicine

4716.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2018 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.

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 Western Sydney University, 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 AND five years full-time equivalent clinical work experience in the field of Traditional Chinese Medicine or Acupuncture

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). Use the links below to apply via UAC or Western Sydney University. Applications made directly to Western Sydney do not have an application fee.

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.

To complete some of the components within the units in this course, students may be required to travel to other Western Sydney University campuses.

Core Units

401131.1	Clinical Applications of Classical Acupuncture
401130.1	Clinical Application of Classical Chinese Herbal Medicine
401133.1	Clinical Placement
401129.1	Evidence Based Practice in Chinese Medicine
400850.3	Professional Topic
401080.2	Research Protocol Design and Practice
401132.1	Women's Health in Chinese Medicine

Choose one of

401077.1	Introduction to Biostatistics
401076.1	Introduction to Epidemiology

Specialist Units

Students must complete 30 credit points of elective units, either from the following list or other postgraduate units with DAP approval.

401137.1	Chronic and Complex Disorders in Chinese Medicine
401136.1	Clinical Oncology and Chinese Medicine
401135.1	Mental and Neurological Disorders and Chinese Medicine
401134.2	Musculoskeletal Health 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
401131.1	Clinical Applications of Classical Acupuncture

- 401130.1 Clinical Application of Classical Chinese Herbal Medicine
 401138.1 Research Project and Thesis
 401080.2 Research Protocol Design and Practice
 401132.1 Women's Health in Chinese Medicine

Choose one of

- 401077.1 Introduction to Biostatistics
 401076.1 Introduction to Epidemiology

Graduate Diploma of Chinese Medicine (exit only)

Core Units

- 401131.1 Clinical Applications of Classical Acupuncture
 401130.1 Clinical Application of Classical Chinese Herbal Medicine
 401129.1 Evidence Based Practice in Chinese Medicine
 401080.2 Research Protocol Design and Practice
 401132.1 Women's Health in Chinese Medicine

Choose one of

- 401077.1 Introduction to Biostatistics
 401076.1 Introduction to Epidemiology

Plus two electives at postgraduate level

Graduate Certificate of Chinese Medicine (exit only)

- 401130.1 Clinical Application of Classical Chinese Herbal Medicine
 401131.1 Clinical Applications of Classical Acupuncture
 401129.1 Evidence Based Practice in Chinese Medicine

Choose one of

- 401077.1 Introduction to Biostatistics
 401076.1 Introduction to Epidemiology

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

- 401130.1 Clinical Application of Classical Chinese Herbal Medicine
 401131.1 Clinical Applications of Classical Acupuncture
 401129.1 Evidence Based Practice in Chinese Medicine
 401080.2 Research Protocol Design and Practice
 401132.1 Women's Health in Chinese Medicine

Choose one of

- 401077.1 Introduction to Biostatistics
 401076.1 Introduction to Epidemiology

Plus two electives at postgraduate level

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

- 401131.1 Clinical Applications of Classical Acupuncture
 401130.1 Clinical Application of Classical Chinese Herbal Medicine
 401129.1 Evidence Based Practice in Chinese Medicine

Choose one of

- 401076.1 Introduction to Epidemiology
 401077.1 Introduction to Biostatistics

Master of Forensic Science

3741.1

The course is designed for applicants who need advanced level knowledge across a range of forensic disciplines including crime scene investigation, fingerprint detection and identification, forensic chemistry, forensic biology, forensic toxicology, illicit drug analysis, and forensic medicine. The fully-online nature of the units and the flexibility available with unit selection means that the course can be adapted to suit applicants working or intending to work in areas that include forensic science laboratories,

toxicology and pathology laboratories, drug assessment agencies, customs and border protection, law enforcement, and areas related to national security. The Master of Forensic Science includes two compulsory research units.

- This course is part of a collaborative education partnership with the University of Florida and the University of Canberra.

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

Admission

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

It is recommended that applicants have completed chemistry and biology units in their undergraduate degree.

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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 120 credit points including the units listed below.

Students may exit with a Graduate Diploma (80 credit points) or Graduate Certificate (40 credit points) on completion of the relevant units. Refer to links below for structure requirements for these two exit awards.

Compulsory Units (20 credit points)

301129.1	Forensic Research 1
301130.1	Forensic Research 2

Choose at least 10 credit points from the following

301131.1	Crime Scene Investigation (PG)
301132.1	Fingerprint Detection and Identification

Select the remaining credit points from

301151.1	Advanced Criminalistics
301154.1	Biological Agents 1
301155.1	Biological Agents 2

301149.1	Blood Distribution and Spatter
301139.1	Drug Biotransformation and Molecular Mechanisms of Toxicity
301152.1	Environmental Forensics 1
301153.1	Environmental Forensics 2
301156.1	Explosives
301148.1	Forensic Analysis of DNA
301147.1	Forensic Anthropology (PG)
301144.1	Forensic Genetics
301146.1	Forensic Immunology
301133.1	Forensic Medicine I
301134.1	Forensic Medicine II
301136.1	Forensic Toxicology I
301137.1	Forensic Toxicology II
301135.1	General Toxicology
301140.1	Medicinal Chemistry of Drugs of Abuse
301141.1	Natural Medicinal Products
301143.1	Pharmaceutical Analysis
301142.1	Synthetic Medicinal Chemistry
301138.1	Toxic Substances
301150.1	Toxicology of Chemical Weapons

Please note

The units listed below count towards completion of the course for students who may have passed units in the list below in 2017 or earlier.

301145 - Forensic Entomology

Graduate Diploma in Forensic Science

3742.1

The course is designed for applicants who need advanced level knowledge across a range of forensic disciplines including crime scene investigation, fingerprint detection and identification, forensic chemistry, forensic biology, forensic toxicology, illicit drug analysis, and forensic medicine. The fully-online nature of the units and the flexibility available with unit selection means that the course can be adapted to suit applicants working or intending to work in areas that include forensic science laboratories, toxicology and pathology laboratories, drug assessment agencies, customs and border protection, law enforcement, and areas related to national security.

- This course is part of a collaborative education partnership with the University of Florida and the University of Canberra.

Study Mode

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

Location

Campus Attendance Mode

Online	Full Time	Multi Modal
Online	Part Time	Multi Modal

Admission

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

It is recommended that applicants have completed chemistry and biology units in their undergraduate degree.

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). Use the links below to apply via UAC or Western Sydney University. Applications made directly to Western Sydney do not have an application fee.

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 80 credit points including the units listed below.

Students may exit with a Graduate Certificate (40 credit points) on completion of the relevant units. Refer to link below for structure requirements for this exit award.

Choose at least 20 credit points from the following

301131.1	Crime Scene Investigation (PG)
301132.1	Fingerprint Detection and Identification
301129.1	Forensic Research 1
301130.1	Forensic Research 2

Select the remaining credit points from

301151.1	Advanced Criminalistics
301154.1	Biological Agents 1
301155.1	Biological Agents 2
301149.1	Blood Distribution and Spatter
301139.1	Drug Biotransformation and Molecular Mechanisms of Toxicity
301152.1	Environmental Forensics 1
301153.1	Environmental Forensics 2
301156.1	Explosives
301148.1	Forensic Analysis of DNA
301147.1	Forensic Anthropology (PG)
301144.1	Forensic Genetics
301146.1	Forensic Immunology
301133.1	Forensic Medicine I
301134.1	Forensic Medicine II
301136.1	Forensic Toxicology I
301137.1	Forensic Toxicology II
301135.1	General Toxicology
301140.1	Medicinal Chemistry of Drugs of Abuse
301141.1	Natural Medicinal Products
301143.1	Pharmaceutical Analysis
301142.1	Synthetic Medicinal Chemistry
301138.1	Toxic Substances
301150.1	Toxicology of Chemical Weapons

Please note

The units listed below count towards completion of the course for students who may have passed units in the list below in 2017 or earlier.

301145 - Forensic Entomology

Graduate Certificate in Forensic Science

3743.1

The course is designed for applicants who need advanced level knowledge across a range of forensic disciplines including crime scene investigation, fingerprint detection and identification, forensic chemistry, forensic biology, forensic toxicology, illicit drug analysis, and forensic medicine. The fully-online nature of the units and the flexibility available with unit selection means that the course can be adapted to suit applicants working or intending to work in areas that include forensic science laboratories, toxicology and pathology laboratories, drug assessment agencies, customs and border protection, law enforcement, and areas related to national security.

- This course is part of a collaborative education partnership with the University of Florida and the University of Canberra.

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

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

It is recommended that applicants have completed chemistry and biology units in their undergraduate degree.

Or

Three years full-time equivalent work experience in a forensic science or military forensic exploitation environment.

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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 40 credit points including the units listed below.

Choose at least 10 credit points from the following

301131.1	Crime Scene Investigation (PG)
301132.1	Fingerprint Detection and Identification
301129.1	Forensic Research 1
301130.1	Forensic Research 2

Select the remaining credit points from

301151.1	Advanced Criminalistics
301154.1	Biological Agents 1
301155.1	Biological Agents 2
301149.1	Blood Distribution and Spatter
301139.1	Drug Biotransformation and Molecular Mechanisms of Toxicity
301152.1	Environmental Forensics 1
301153.1	Environmental Forensics 2
301156.1	Explosives
301148.1	Forensic Analysis of DNA
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301144.1	Forensic Genetics
301146.1	Forensic Immunology
301133.1	Forensic Medicine I
301134.1	Forensic Medicine II
301136.1	Forensic Toxicology I
301137.1	Forensic Toxicology II
301135.1	General Toxicology
301140.1	Medicinal Chemistry of Drugs of Abuse
301141.1	Natural Medicinal Products
301143.1	Pharmaceutical Analysis
301142.1	Synthetic Medicinal Chemistry
301138.1	Toxic Substances
301150.1	Toxicology of Chemical Weapons

Please note

The units listed below count towards completion of the course for students who may have passed units in the list below in 2017 or earlier.

301145 - Forensic Entomology

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
Online	Full Time	Multi Modal
Online	Part Time	Multi Modal
Parramatta Campus - Victoria Road	Full Time	External
Parramatta Campus - Victoria Road	Part Time	External
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal
Parramatta Campus - Victoria Road	Full Time	Multi Modal
Parramatta Campus - Victoria Road	Part Time	Multi Modal
Sydney City Campus	Full Time	Internal

Accreditation

The Master of Health Science (Health Service Management) and Master of Health Science (Aged Care Management) has Professional Accreditation with the Australasian College of Health Service Management (ACHSM).

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.

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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**Sydney City Campus****Online and Parramatta Campus****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
Online	Full Time	Multi Modal
Online	Part Time	Multi Modal
Parramatta Campus - Victoria Road	Full Time	External
Parramatta Campus - Victoria Road	Part Time	External
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal
Parramatta Campus - Victoria Road	Full Time	Multi Modal
Parramatta Campus - Victoria Road	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.

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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.

Students must complete the following units

Core Units

401077.1	Introduction to Biostatistics
401076.1	Introduction to Epidemiology
400416.2	Public Health, Policy and Society

Alternate Units

Choose five units from the list below

400841.3	A Global Perspective on Social Determinants of Health
401175.1	Analytic Approaches in Epidemiology
400846.3	Building Organisational Capacity in Health Care
400840.3	Communicable Diseases
401178.1	Controversies in Epidemiology
401179.2	Data Management and Programming for Epidemiology
401177.1	Environmental Epidemiology
401174.1	Epidemiology of Non-Communicable Diseases
400837.3	Health and Socio-political Issues in Aged Care
400967.2	Health Economics and Comparative Health Systems
400845.2	Health Financial Management
400844.2	Health Services and Facilities Planning
400843.3	Health Workforce Planning
401173.1	Introduction to Clinical Epidemiology
400778.2	Leadership and the Development of Organisational Capacity
400777.4	Leadership for Quality and Safety in Health Care
300391.2	Occupational Health Management
401081.2	Organisational Governance and Performance Management
400238.3	Policy, Power and Politics in Health Care Provision
300677.3	Safety and Risk Management
400847.3	Surveillance and Disaster Planning
401176.1	Statistical Methods in 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
Online	Full Time	Multi Modal
Online	Part Time	Multi Modal
Parramatta Campus - Victoria Road	Full Time	External
Parramatta Campus - Victoria Road	Part Time	External
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal
Parramatta Campus - Victoria Road	Full Time	Multi Modal
Parramatta Campus - Victoria Road	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.

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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 which include the units listed in the recommended sequences below.

Students must complete the following units

Core Units

401076.1	Introduction to Epidemiology
400416.2	Public Health, Policy and Society

Alternate Units

Choose two units from the list below

400841.3	A Global Perspective on Social Determinants of Health
401175.1	Analytic Approaches in Epidemiology
400846.3	Building Organisational Capacity in Health Care
400840.3	Communicable Diseases
401178.1	Controversies in Epidemiology
401179.2	Data Management and Programming for Epidemiology
401177.1	Environmental Epidemiology
401174.1	Epidemiology of Non-Communicable Diseases
400837.3	Health and Socio-political Issues in Aged Care
400967.2	Health Economics and Comparative Health Systems
400845.2	Health Financial Management
400844.2	Health Services and Facilities Planning
400843.3	Health Workforce Planning
401077.1	Introduction to Biostatistics
401173.1	Introduction to Clinical Epidemiology
400778.2	Leadership and the Development of Organisational Capacity
400777.4	Leadership for Quality and Safety in Health Care
300391.2	Occupational Health Management
401081.2	Organisational Governance and Performance Management
400238.3	Policy, Power and Politics in Health Care Provision
300677.3	Safety and Risk Management
400847.3	Surveillance and Disaster Planning
401176.1	Statistical Methods in Epidemiology

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 - Victoria Road	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

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

Research Training Component - 40 credit points

300398.2	Methods of Researching
400850.3	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

400841.3	A Global Perspective on Social Determinants of Health
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400840.3	Communicable Diseases
400417.2	Epidemiology and Quantitative Methods
400206.2	Evidence-based Nursing
400418.4	Health Advancement and Health Promotion
400837.3	Health and Socio-political Issues in Aged Care
400843.3	Health Workforce Planning
300391.2	Occupational Health Management
300682.2	Occupational and Environmental Hygiene
300677.3	Safety and Risk Management
400847.3	Surveillance and Disaster Planning

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 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
Online	Full Time	Multi Modal

Campus	Attendance	Mode
Online	Part Time	Multi Modal
Parramatta Campus - Victoria Road	Full Time	External
Parramatta Campus - Victoria Road	Part Time	External
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal
Parramatta Campus - Victoria Road	Full Time	Multi Modal
Parramatta Campus - Victoria Road	Part Time	Multi Modal

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
Online	Full Time	Multi Modal
Online	Part Time	Multi Modal
Parramatta Campus - Victoria Road	Full Time	External
Parramatta Campus - Victoria Road	Part Time	External
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal

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.

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the

Campus	Attendance	Mode		
Parramatta Campus - Victoria Road	Full Time	Multi Modal	400846.3	Building Organisational Capacity in Health Care
			401178.1	Controversies in Epidemiology
			401179.2	Data Management and Programming for Epidemiology
Parramatta Campus - Victoria Road	Part Time	Multi Modal	401177.1	Environmental Epidemiology
			401174.1	Epidemiology of Non-Communicable Diseases
			400837.3	Health and Socio-political Issues in Aged Care
			400967.2	Health Economics and Comparative Health Systems
			400845.2	Health Financial Management
			400844.2	Health Services and Facilities Planning
			400843.3	Health Workforce Planning
			401173.1	Introduction to Clinical Epidemiology
			400778.2	Leadership and the Development of Organisational Capacity
			400777.4	Leadership for Quality and Safety in Health Care
			300391.2	Occupational Health Management
			401081.2	Organisational Governance and Performance Management
			400238.3	Policy, Power and Politics in Health Care Provision
			300677.3	Safety and Risk Management
			401176.1	Statistical Methods in Epidemiology
			400847.3	Surveillance and Disaster Planning

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 and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University.

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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

400841.3	A Global Perspective on Social Determinants of Health
400840.3	Communicable Diseases
401077.1	Introduction to Biostatistics
401076.1	Introduction to Epidemiology
400416.2	Public Health, Policy and Society

Alternate Units

Choose four units from the list below

401175.1	Analytic Approaches in Epidemiology
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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
Online	Full Time	Multi Modal
Online	Part Time	Multi Modal
Parramatta Campus - Victoria Road	Full Time	External
Parramatta Campus - Victoria Road	Part Time	External
Parramatta Campus - Victoria Road	Full Time	Internal

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Part Time	Internal
Parramatta Campus - Victoria Road	Full Time	Multi Modal
Parramatta Campus - Victoria Road	Part Time	Multi Modal

Master of Science

3749.1

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 2018 or later.

The Master of Science is an advanced course that can be taken in one of the two specialisations; Public Health Nutrition or Food Science. The course builds upon the professional experience and/or prior qualifications to develop advanced expertise and critical understanding in science and in Public Health Nutrition or Food Science. The course is completed with a capstone unit that is designed to integrate the various themes that flow throughout the program and develop research skills in science. Depending on specialisation, students may find employment at a senior level in a wide range of destinations, including federal, state and local government bodies, universities, research organisations, private companies, health facilities, science-based industries, or private consultancies.

Study Mode

One to two years full-time depending upon entry qualifications (see Pathways listed under Course Structure below) or the equivalent part-time. Students will be required to attend the Hawkesbury campus for some learning experiences.

Location

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal

Accreditation

On completion of this Course graduates with the Food Science Specialisation will be eligible for professional membership of the Australian Institute of Food Science and Technology. On completion of this Course graduates with the Public Health Nutrition Specialisation will be eligible for apply to be an Associate Nutritionist (Anutr) or a Registered Public Health Nutritionist (RPHNutr) if combined with three years of suitable work experience with the Nutrition Society of Australia and/or a Certified Public Health Nutritionist (cPHN) with the World Public Health Nutrition Association. Students may also be eligible to apply for professional membership of Public Health Association of Australia and Australian Health Promotion Association.

Admission

Master of Science -160 credit points

Applicants must have a Bachelor Degree in any science, health science, or engineering discipline;

Or

A Graduate Certificate in food science, food technology, food engineering, human nutrition, dietetics, chemistry, biology, microbiology, health science and a minimum two years full-time equivalent work experience in food, human nutrition, dietetic, or related industries professions may be considered for entry.

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.

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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

400841.3	A Global Perspective on Social Determinants of Health
401077.1	Introduction to Biostatistics
401076.1	Introduction to Epidemiology
400416.2	Public Health, Policy and Society

Master of Science -120 credit points

Applicants must have:

Successfully completed an undergraduate degree, or higher, in science, applied science or health and have a minimum of one year full-time professional work experience (or equivalent) in a field that is related to the intended Specialisation.

Or

A Bachelor Degree in any science, health science, or engineering discipline and a minimum two years full-time equivalent work experience in food, human nutrition, dietetic, hospitality or related industries professions.

Master of Science -80 credit points

Applicants must have an Honours, Graduate Diploma or higher in science, health science, medical science or engineering with a major in food science, food technology, food engineering, human nutrition, dietetics, chemistry, biology, microbiology, or chemical engineering.

International applicants must achieve IELTS 6.5 overall score with a minimum 6.0 in each subset.

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). Use the links below to apply via UAC or Western Sydney University.

Applications made directly to Western Sydney do not have an application fee.

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 the 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.

Special Requirements

400850 Professional Topic enrolment restrictions: Students must be fully compliant if they plan to undertake a work placement with NSW Health (Have a National Police Check; A Working With Children Check and be fully vaccinated). Student must have permission from Unit Coordinator to enrol. Students will be advised at entry and supported to obtain and record these necessary checks through the professional team managing clinical placements/WIL.

Course Structure**Pathway/Specialisations**

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

Food Science

The Master of Science specialising in Food Science is designed for graduates interested in furthering a career in food science and technology, working in a variety of settings, such as food manufacturing, research and development, regulatory affairs, technical and senior management. Graduates will develop knowledge and skills to meet future challenges to the food supply including sustainability, food safety, and health and nutrition, applicable to both Australian and global contexts. This specialisation develops essential content knowledge, analytical skills and mastery of laboratory methods and quality assurance through an integrated set of units in food processing, quality assurance, food evaluation techniques and new product development. In particular, these units are all directed towards solving current and future challenges. Students will be prepared to become professional food scientists with the cognitive, technical and critical thinking skills to analyse issues and articulate appropriate solutions. Students will become familiar with the University's food pilot plant and commercial kitchen and be able use these facilities to practise their skills and application of knowledge and skills. A capstone unit involving professional research project allows students to integrate their knowledge and skills developed from the whole program and build on research skills that are scaffolded through the curriculum.

A4038.1	Master of Science (Food Science) - 2 year pathway
A4039.1	Master of Science (Food Science) - 1.5 year pathway
A4040.1	Master of Science (Food Science) - 1 year pathway

Public Health Nutrition

The Master of Science specialising in Public Health Nutrition is designed for human nutrition graduates seeking to further their career in public health and health promotion; working in a variety of settings, such as local, state or national health organisations, non-government organisations, population health units, community health centres, and international aid agencies. Roles may include, health promotion officer, research and evaluation officer, monitoring and surveillance officer, and health policy officer. The program draws on and complements the Master of Public Health, providing an attractive postgraduate pathway for students with prior nutrition knowledge. This specialisation build an integrated understanding of relevant aspects of community and public health nutrition and its interrelation with other relevant disciplines including, behavioural sciences and nutrition/health education, social sciences, economics, politics, food and nutrition systems, and public health systems. A capstone unit involving a public health nutrition research project allows students to integrate their knowledge and skills developed from the whole program and build on research skills that are scaffolded through the curriculum.

- A4041.1** Master of Science (Public Health Nutrition) - 2 year pathway
- A4042.1** Master of Science (Public Health Nutrition) - 1.5 year pathway
- A4043.1** Master of Science (Public Health Nutrition) - 1 year pathway

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	Multi Modal
Parramatta Campus - Victoria Road	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

400845.2	Health Financial Management
400844.2	Health Services and Facilities Planning
400843.3	Health Workforce Planning
401077.1	Introduction to Biostatistics
401076.1	Introduction to Epidemiology
401081.2	Organisational Governance and Performance Management
400416.2	Public Health, Policy and Society

Alternate Units

Students enrolled in the two year program may select up to eight of the following units

400841.3	A Global Perspective on Social Determinants of Health
401175.1	Analytic Approaches in Epidemiology

400846.3	Building Organisational Capacity in Health Care
400840.3	Communicable Diseases
401178.1	Controversies in Epidemiology
401179.2	Data Management and Programming for Epidemiology
401177.1	Environmental Epidemiology
401174.1	Epidemiology of Non-Communicable Diseases
400837.3	Health and Socio-political Issues in Aged Care
400967.2	Health Economics and Comparative Health Systems
401173.1	Introduction to Clinical Epidemiology
400778.2	Leadership and the Development of Organisational Capacity
400777.4	Leadership for Quality and Safety in Health Care
300391.2	Occupational Health Management
400238.3	Policy, Power and Politics in Health Care Provision
401238.1	Qualitative Research Methodology in Health
300677.3	Safety and Risk Management
401176.1	Statistical Methods in Epidemiology
400847.3	Surveillance and Disaster Planning

Capstone Units

Students must complete at least one of the following units

400418.4	Health Advancement and Health Promotion
400850.3	Professional Topic
401080.2	Research Protocol Design and Practice
401078.2	Research Project

Note: 401078 - Research Project is a 20 credit point unit

401079.2 Dissertation (Full Time)

Note: 401079 - Dissertation is a 40 credit point unit

401282.1 Dissertation (Part Time)

Note: 401282 Dissertation (Part time) is a 40 Credit point unit, completed over two teaching sessions. Thus students will need to enrol twice in this unit (20 credit points per session).

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	Multi Modal

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Sydney City 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

400845.2	Health Financial Management
400837.3	Health and Socio-political Issues in Aged Care
400843.3	Health Workforce Planning
401077.1	Introduction to Biostatistics
401076.1	Introduction to Epidemiology
401081.2	Organisational Governance and Performance Management
400416.2	Public Health, Policy and Society

Alternate Units

Students enrolled in the two year program may select up to eight of the following units

400841.3	A Global Perspective on Social Determinants of Health
401175.1	Analytic Approaches in Epidemiology
400846.3	Building Organisational Capacity in Health Care
400840.3	Communicable Diseases
401178.1	Controversies in Epidemiology
401179.2	Data Management and Programming for Epidemiology
401177.1	Environmental Epidemiology
401174.1	Epidemiology of Non-Communicable Diseases
400967.2	Health Economics and Comparative Health Systems
400844.2	Health Services and Facilities Planning
401173.1	Introduction to Clinical Epidemiology
400778.2	Leadership and the Development of Organisational Capacity
400777.4	Leadership for Quality and Safety in Health Care
300391.2	Occupational Health Management
400238.3	Policy, Power and Politics in Health Care Provision
401238.1	Qualitative Research Methodology in Health
300677.3	Safety and Risk Management
400847.3	Surveillance and Disaster Planning
401176.1	Statistical Methods in Epidemiology

Capstone Units

Students must complete at least one of the following units

400418.4	Health Advancement and Health Promotion
400850.3	Professional Topic
401080.2	Research Protocol Design and Practice
401078.2	Research Project

Note: 401078 - Research Project is 20 credit point unit

401079.2 Dissertation (Full Time)

Note: 401079 - Dissertation is a 40 credit point unit

401282.1 Dissertation (Part Time)

Note: 401282 Dissertation (Part time) is a 40 Credit point unit, completed over two teaching sessions. Thus students will need to enrol twice in this unit (20 credit points per session).

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	Multi Modal
Parramatta Campus - Victoria Road	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

401077.1	Introduction to Biostatistics
401076.1	Introduction to Epidemiology
300391.2	Occupational Health Management
400416.2	Public Health, Policy and Society
300677.3	Safety and Risk Management

Alternate Units

Students enrolled in the two year program may select up to ten of the following units

400841.3	A Global Perspective on Social Determinants of Health
401175.1	Analytic Approaches in Epidemiology
400846.3	Building Organisational Capacity in Health Care
400840.3	Communicable Diseases
401178.1	Controversies in Epidemiology
401179.2	Data Management and Programming for Epidemiology
401177.1	Environmental Epidemiology
401174.1	Epidemiology of Non-Communicable Diseases
400837.3	Health and Socio-political Issues in Aged Care
400967.2	Health Economics and Comparative Health Systems
400845.2	Health Financial Management
400844.2	Health Services and Facilities Planning
400843.3	Health Workforce Planning
401173.1	Introduction to Clinical Epidemiology
400778.2	Leadership and the Development of Organisational Capacity
400777.4	Leadership for Quality and Safety in Health Care
401081.2	Organisational Governance and Performance Management
400238.3	Policy, Power and Politics in Health Care Provision
401238.1	Qualitative Research Methodology in Health
401176.1	Statistical Methods in Epidemiology
400847.3	Surveillance and Disaster Planning

Capstone Units

Students must complete at least one of the following units

400418.4	Health Advancement and Health Promotion
400850.3	Professional Topic
401080.2	Research Protocol Design and Practice
401078.2	Research Project

Note: 401078 - Research Project is 20 credit point unit

401079.2	Dissertation (Full Time)
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Note: 401079 - Dissertation is a 40 credit point unit

401282.1	Dissertation (Part Time)
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Note: 401282 Dissertation (Part time) is a 40 Credit point unit, completed over two teaching sessions. Thus students will need to enrol twice in this unit (20 credit points per session).

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	Multi Modal
Parramatta Campus - Victoria Road	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

400845.2	Health Financial Management
400844.2	Health Services and Facilities Planning
400843.3	Health Workforce Planning
401077.1	Introduction to Biostatistics
401076.1	Introduction to Epidemiology
401081.2	Organisational Governance and Performance Management
400416.2	Public Health, Policy and Society

Alternate Units

Students enrolled in the one and a half year program may select up to four of the following units

400841.3	A Global Perspective on Social Determinants of Health
401175.1	Analytic Approaches in Epidemiology
400846.3	Building Organisational Capacity in Health Care
400840.3	Communicable Diseases
401178.1	Controversies in Epidemiology
401179.2	Data Management and Programming for Epidemiology
401177.1	Environmental Epidemiology
401174.1	Epidemiology of Non-Communicable Diseases
400837.3	Health and Socio-political Issues in Aged Care

400967.2	Health Economics and Comparative Health Systems
401173.1	Introduction to Clinical Epidemiology
400778.2	Leadership and the Development of Organisational Capacity
400777.4	Leadership for Quality and Safety in Health Care
300391.2	Occupational Health Management
400238.3	Policy, Power and Politics in Health Care Provision
401238.1	Qualitative Research Methodology in Health
300677.3	Safety and Risk Management
401176.1	Statistical Methods in Epidemiology
400847.3	Surveillance and Disaster Planning

Capstone Units

Students must complete at least one of the following units

400418.4	Health Advancement and Health Promotion
400850.3	Professional Topic
401080.2	Research Protocol Design and Practice
401078.2	Research Project

Note: 401078 - Research Project is 20 credit point unit

401079.2	Dissertation (Full Time)
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Note: 401079 - Dissertation is a 40 credit point unit

401282.1	Dissertation (Part Time)
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Note: 401282 Dissertation (Part time) is a 40 Credit point unit, completed over two teaching sessions. Thus students will need to enrol twice in this unit (20 credit points per session).

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	Multi Modal
Parramatta Campus - Victoria Road	Internal
Sydney City 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

400837.3	Health and Socio-political Issues in Aged Care
400843.3	Health Workforce Planning
400845.2	Health Financial Management
401077.1	Introduction to Biostatistics
401076.1	Introduction to Epidemiology
401081.2	Organisational Governance and Performance Management
400416.2	Public Health, Policy and Society

Alternate Units

Students enrolled in the one and a half year program may select up to four of the following units

400841.3	A Global Perspective on Social Determinants of Health
401175.1	Analytic Approaches in Epidemiology
400846.3	Building Organisational Capacity in Health Care
400840.3	Communicable Diseases
401178.1	Controversies in Epidemiology
401179.2	Data Management and Programming for Epidemiology
401177.1	Environmental Epidemiology
401174.1	Epidemiology of Non-Communicable Diseases
400967.2	Health Economics and Comparative Health Systems
400844.2	Health Services and Facilities Planning
401173.1	Introduction to Clinical Epidemiology
400778.2	Leadership and the Development of Organisational Capacity
400777.4	Leadership for Quality and Safety in Health Care
300391.2	Occupational Health Management
400238.3	Policy, Power and Politics in Health Care Provision
401238.1	Qualitative Research Methodology in Health
300677.3	Safety and Risk Management
401176.1	Statistical Methods in Epidemiology
400847.3	Surveillance and Disaster Planning

Capstone Units

Students must complete at least one of the following units

400418.4	Health Advancement and Health Promotion
400850.3	Professional Topic
401080.2	Research Protocol Design and Practice
401078.2	Research Project

Note: 401078 - Research Project is 20 credit point unit

401079.2	Dissertation (Full Time)
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Note: 401079 - Dissertation is a 40 credit point unit

401282.1 Dissertation (Part Time)

Note: 401282 Dissertation (Part time) is a 40 Credit point unit, completed over two teaching sessions. Thus students will need to enrol twice in this unit (20 credit points per session).

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	Multi Modal
Parramatta Campus - Victoria Road	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

401077.1	Introduction to Biostatistics
401076.1	Introduction to Epidemiology
300391.2	Occupational Health Management
400416.2	Public Health, Policy and Society
300677.3	Safety and Risk Management

Alternate Units

Students enrolled in the one and a half year program may select up to six of the following units

400841.3	A Global Perspective on Social Determinants of Health
401175.1	Analytic Approaches in Epidemiology
400846.3	Building Organisational Capacity in Health Care
400840.3	Communicable Diseases
401178.1	Controversies in Epidemiology
401179.2	Data Management and Programming for Epidemiology
401177.1	Environmental Epidemiology
401174.1	Epidemiology of Non-Communicable Diseases
400837.3	Health and Socio-political Issues in Aged Care
400967.2	Health Economics and Comparative Health Systems
400845.2	Health Financial Management
400844.2	Health Services and Facilities Planning
400843.3	Health Workforce Planning
401173.1	Introduction to Clinical Epidemiology
400778.2	Leadership and the Development of Organisational Capacity
400777.4	Leadership for Quality and Safety in Health Care
401081.2	Organisational Governance and Performance Management
400238.3	Policy, Power and Politics in Health Care Provision
401238.1	Qualitative Research Methodology in Health
401176.1	Statistical Methods in Epidemiology
400847.3	Surveillance and Disaster Planning

Capstone Units

Students must complete at least one of the following units

400418.4	Health Advancement and Health Promotion
400850.3	Professional Topic
401080.2	Research Protocol Design and Practice
401078.2	Research Project

Note: 401078 - Research Project is 20 credit point unit

401079.2 Dissertation (Full Time)

Note: 401079 - Dissertation is a 40 credit point unit

401282.1 Dissertation (Part Time)

Note: 401282 Dissertation (Part time) is a 40 Credit point unit, completed over two teaching sessions. Thus students will need to enrol twice in this unit (20 credit points per session).

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	Multi Modal
Parramatta Campus - Victoria Road	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

400845.2	Health Financial Management
400844.2	Health Services and Facilities Planning
400843.3	Health Workforce Planning
401077.1	Introduction to Biostatistics
401076.1	Introduction to Epidemiology
401081.2	Organisational Governance and Performance Management
400416.2	Public Health, Policy and Society

Capstone Units

Students must complete at least one of the following units

400418.4	Health Advancement and Health Promotion
401080.2	Research Protocol Design and Practice
400850.3	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	Multi Modal
Parramatta Campus - Victoria Road	Internal
Sydney City 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

400837.3	Health and Socio-political Issues in Aged Care
400843.3	Health Workforce Planning
400845.2	Health Financial Management
401077.1	Introduction to Biostatistics
401076.1	Introduction to Epidemiology
401081.2	Organisational Governance and Performance Management
400416.2	Public Health, Policy and Society

Capstone Units

Students must complete at least one of the following units

400418.4	Health Advancement and Health Promotion
400850.3	Professional Topic
401080.2	Research Protocol Design and Practice

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	Multi Modal
Parramatta Campus - Victoria Road	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

401077.1	Introduction to Biostatistics
401076.1	Introduction to Epidemiology
300391.2	Occupational Health Management
400416.2	Public Health, Policy and Society
300677.3	Safety and Risk Management

Alternate Units

Students enrolled in the one year program may select up to two of the following units

400841.3	A Global Perspective on Social Determinants of Health
401175.1	Analytic Approaches in Epidemiology
400846.3	Building Organisational Capacity in Health Care
400840.3	Communicable Diseases
401178.1	Controversies in Epidemiology
401179.2	Data Management and Programming for Epidemiology
401177.1	Environmental Epidemiology
401174.1	Epidemiology of Non-Communicable Diseases
400837.3	Health and Socio-political Issues in Aged Care
400967.2	Health Economics and Comparative Health Systems
400845.2	Health Financial Management
400844.2	Health Services and Facilities Planning
400843.3	Health Workforce Planning
401173.1	Introduction to Clinical Epidemiology
400778.2	Leadership and the Development of Organisational Capacity
400777.4	Leadership for Quality and Safety in Health Care
401081.2	Organisational Governance and Performance Management
400238.3	Policy, Power and Politics in Health Care Provision
401238.1	Qualitative Research Methodology in Health
401176.1	Statistical Methods in Epidemiology
400847.3	Surveillance and Disaster Planning

Capstone Units

Students must complete at least one of the following units

401080.2	Research Protocol Design and Practice
400418.4	Health Advancement and Health Promotion
400850.3	Professional Topic
401078.2	Research Project

Note: 401078 - Research Project is 20 credit point unit

401079.2 Dissertation (Full Time)

Note: 401079 - Dissertation is a 40 credit point unit

401282.1 Dissertation (Part Time)

Note: 401282 Dissertation (Part time) is a 40 Credit point unit, completed over two teaching sessions. Thus students will need to enrol twice in this unit (20 credit points per session).

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	Multi Modal
Parramatta Campus - Victoria Road	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

400841.3	A Global Perspective on Social Determinants of Health
401077.1	Introduction to Biostatistics

- 401076.1** Introduction to Epidemiology
400416.2 Public Health, Policy and Society

Alternate Units

Students enrolled in the two year program may select up to eleven of the following units

- 401175.1** Analytic Approaches in Epidemiology
400846.3 Building Organisational Capacity in Health Care
400840.3 Communicable Diseases
401178.1 Controversies in Epidemiology
401179.2 Data Management and Programming for Epidemiology
401177.1 Environmental Epidemiology
401174.1 Epidemiology of Non-Communicable Diseases
400837.3 Health and Socio-political Issues in Aged Care
400967.2 Health Economics and Comparative Health Systems
400845.2 Health Financial Management
400844.2 Health Services and Facilities Planning
400843.3 Health Workforce Planning
401173.1 Introduction to Clinical Epidemiology
400778.2 Leadership and the Development of Organisational Capacity
400777.4 Leadership for Quality and Safety in Health Care
300391.2 Occupational Health Management
401081.2 Organisational Governance and Performance Management
400238.3 Policy, Power and Politics in Health Care Provision
401238.1 Qualitative Research Methodology in Health
300677.3 Safety and Risk Management
401176.1 Statistical Methods in Epidemiology
400847.3 Surveillance and Disaster Planning

Capstone Units

Students must complete at least one of the following units

- 400418.4** Health Advancement and Health Promotion
400850.3 Professional Topic
401078.2 Research Project
401079.2 Dissertation (Full Time)
401282.1 Dissertation (Part Time)

401282 Dissertation (Part time) is completed over two teaching sessions, thus students will need to enrol twice in this unit.

- 401080.2** Research Protocol Design and Practice

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	Multi Modal
Parramatta Campus - Victoria Road	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

- 400841.3** A Global Perspective on Social Determinants of Health
401077.1 Introduction to Biostatistics
401076.1 Introduction to Epidemiology
400416.2 Public Health, Policy and Society

Alternate Units

Students enrolled in the one and a half year program may select up to seven of the following units

- 401175.1** Analytic Approaches in Epidemiology
400846.3 Building Organisational Capacity in Health Care
400840.3 Communicable Diseases
401178.1 Controversies in Epidemiology
401179.2 Data Management and Programming for Epidemiology
401177.1 Environmental Epidemiology
401174.1 Epidemiology of Non-Communicable Diseases
400837.3 Health and Socio-political Issues in Aged Care
400967.2 Health Economics and Comparative Health Systems
400845.2 Health Financial Management
400844.2 Health Services and Facilities Planning
400843.3 Health Workforce Planning
401173.1 Introduction to Clinical Epidemiology
400778.2 Leadership and the Development of Organisational Capacity

400777.4	Leadership for Quality and Safety in Health Care
300391.2	Occupational Health Management
401081.2	Organisational Governance and Performance Management
400238.3	Policy, Power and Politics in Health Care Provision
401238.1	Qualitative Research Methodology in Health
300677.3	Safety and Risk Management
401176.1	Statistical Methods in Epidemiology
400847.3	Surveillance and Disaster Planning

Capstone Units

Students must complete at least one of the following units

401079.2	Dissertation (Full Time)
401282.1	Dissertation (Part Time)

401282 Dissertation (Part time) is completed over two teaching sessions, thus students will need to enrol twice in this unit.

400418.4	Health Advancement and Health Promotion
400850.3	Professional Topic
401078.2	Research Project
401080.2	Research Protocol Design and Practice

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	Multi Modal
Parramatta Campus - Victoria Road	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

400841.3	A Global Perspective on Social Determinants of Health
401077.1	Introduction to Biostatistics
401076.1	Introduction to Epidemiology
400416.2	Public Health, Policy and Society

Alternate Units

Students enrolled in the one year program may select up to three of the following units

401175.1	Analytic Approaches in Epidemiology
400846.3	Building Organisational Capacity in Health Care
400840.3	Communicable Diseases
401178.1	Controversies in Epidemiology
401179.2	Data Management and Programming for Epidemiology
401177.1	Environmental Epidemiology
401174.1	Epidemiology of Non-Communicable Diseases
400837.3	Health and Socio-political Issues in Aged Care
400967.2	Health Economics and Comparative Health Systems
400845.2	Health Financial Management
400844.2	Health Services and Facilities Planning
400843.3	Health Workforce Planning
401173.1	Introduction to Clinical Epidemiology
400778.2	Leadership and the Development of Organisational Capacity
400777.4	Leadership for Quality and Safety in Health Care
300391.2	Occupational Health Management
401081.2	Organisational Governance and Performance Management
400238.3	Policy, Power and Politics in Health Care Provision
401238.1	Qualitative Research Methodology in Health
300677.3	Safety and Risk Management
401176.1	Statistical Methods in Epidemiology
400847.3	Surveillance and Disaster Planning

Capstone Units

Students must complete at least one of the following units

401080.2	Research Protocol Design and Practice
400418.4	Health Advancement and Health Promotion
400850.3	Professional Topic
401078.2	Research Project
401079.2	Dissertation (Full Time)
401282.1	Dissertation (Part Time)

401282 Dissertation (Part time) is completed over two teaching sessions, thus students will need to enrol twice in this unit.

Postgraduate Admission Pathway - Master of Science (Food Science) - 2 year pathway

A4038.1

The Master of Science specialising in Food Science is designed for graduates interested in furthering a career in food science and technology, working in a variety of settings, such as food manufacturing, research and development, regulatory affairs, technical and senior management. Graduates will develop knowledge and skills to meet future challenges to the food supply including sustainability, food safety, and health and nutrition, applicable to both Australian and global contexts. This specialisation develops essential content knowledge, analytical skills and mastery of laboratory methods and quality assurance through an integrated set of units in food processing, quality assurance, food evaluation techniques and new product development. In particular, these units are all directed towards solving current and future challenges. Students will be prepared to become professional food scientists with the cognitive, technical and critical thinking skills to analyse issues and articulate appropriate solutions. Students will become familiar with the University's food pilot plant and commercial kitchen and be able use these facilities to practise their skills and application of knowledge and skills. A capstone unit involving professional research project allows students to integrate their knowledge and skills developed from the whole program and build on research skills that are scaffolded through the curriculum.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Applicants must have a Bachelor Degree in any science, health science, or engineering discipline;

Or

A Graduate Certificate in food science, food technology, food engineering, human nutrition, dietetics, chemistry, biology, microbiology, health science and a minimum two years full-time equivalent work experience in food, human nutrition, dietetic, or related industries professions may be considered for entry.

Qualification for this award requires the successful completion of 160 credit points which include six core units and two alternates.

Recommended sequence

Master of Science (Food Science) 160 credit points

Core units

Students must complete the following core units

301181.1 Food Evaluation

301180.1 Food Preservation and Packaging Technologies
301183.1 Food Product Design
301182.1 Food Quality Management
401077.1 Introduction to Biostatistics
301004.1 Research Preparation in Post Graduate Studies

Capstone Research Unit

Students must complete at least 20 credit points from the following units

401079.2 Dissertation (Full Time)
401282.1 Dissertation (Part Time)

401282 Dissertation (Part time) is completed over two teaching sessions, thus students will need to enrol twice in this unit.

400850.3 Professional Topic
401078.2 Research Project
401080.2 Research Protocol Design and Practice

Alternate Food Science Unit Pool (all Level 7)

Students select up to 80 credit points from the 'Alternate Food Science unit pool' to complete 160 credit points

301017.1 Advanced Waste Management
301016.1 Advanced Water and Wastewater Treatment
200838.1 Business Operations and Logistics
200823.1 Buyer Behaviour

Note: In 2019 unit 200823 replaced by 201022 - Customer Experience.

201022.1 Customer Experience
400840.3 Communicable Diseases
301186.1 Community and Public Health Nutrition
200776.1 Compliance Management
800170.1 Ecosystems in a Changing World
800186.1 Emerging Technologies for Biological Science
200717.2 Employment Relations Professional Practice
400975.1 Ethics in Health Research
200719.2 Industrial Relations and Workplace Change
200852.2 Innovation, Creativity and Foresight
200851.1 Innovation for New Markets
401076.1 Introduction to Epidemiology
200737.3 Marketing Systems
301185.1 Nutrition Promotion
301184.1 Nutritional Assessment Methods
300391.2 Occupational Health Management
101634.2 Planning and Environmental Regulation
301005.2 Professional Practice and Communication
51240.5 Project Management
300677.3 Safety and Risk Management
200329.4 Supply Chain Management
301003.1 Sustainable Systems

Postgraduate Admission Pathway - Master of Science (Food Science) - 1.5 year pathway

A4039.1

The Master of Science specialising in Food Science is designed for graduates interested in furthering a career in food science and technology, working in a variety of settings, such as food manufacturing, research and development, regulatory affairs, technical and senior management. Graduates will develop knowledge and skills to meet future challenges to the food supply including sustainability, food safety, and health and nutrition, applicable to both Australian and global contexts. This specialisation develops essential content knowledge, analytical skills and mastery of laboratory methods and quality assurance through an integrated set of units in food processing, quality assurance, food evaluation techniques and new product development. In particular, these units are all directed towards solving current and future challenges. Students will be prepared to become professional food scientists with the cognitive, technical and critical thinking skills to analyse issues and articulate appropriate solutions. Students will become familiar with the University's food pilot plant and commercial kitchen and be able use these facilities to practise their skills and application of knowledge and skills. A capstone unit involving professional research project allows students to integrate their knowledge and skills developed from the whole program and build on research skills that are scaffolded through the curriculum.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Applicants must have successfully completed an undergraduate degree, or higher, in science, applied science or health and have a minimum of one year full-time professional work experience (or equivalent) in a field that is related to the intended Specialisation.

Or

A Bachelor Degree in any science, health science, or engineering discipline and a minimum two years full-time equivalent work experience in food, human nutrition, dietetic, hospitality or related industries professions.

Master of Science (Food Science) 120 credit points

Core Units

Students must complete the following core units

301181.1	Food Evaluation
301180.1	Food Preservation and Packaging Technologies
301183.1	Food Product Design
301182.1	Food Quality Management
401077.1	Introduction to Biostatistics
301004.1	Research Preparation in Post Graduate Studies

Capstone Research Unit

Students must complete at least 20 credit points from the following units

401079.2	Dissertation (Full Time)
401282.1	Dissertation (Part Time)

401282 Dissertation (Part time) is completed over two teaching sessions, thus students will need to enrol twice in this unit.

400850.3	Professional Topic
401078.2	Research Project
401080.2	Research Protocol Design and Practice

Alternate Units

Students select up to 40 credit points from the 'Alternate Food Science unit pool' to complete 120 credit points

Alternate Food Science Unit Pool (all Level 7)

301017.1	Advanced Waste Management
301016.1	Advanced Water and Wastewater Treatment
200838.1	Business Operations and Logistics
200823.1	Buyer Behaviour

Note: In 2019 unit 200823 replaced by 201022 - Customer Experience.

201022.1	Customer Experience
400840.3	Communicable Diseases
301186.1	Community and Public Health Nutrition
200776.1	Compliance Management
800170.1	Ecosystems in a Changing World
800186.1	Emerging Technologies for Biological Science
200717.2	Employment Relations Professional Practice
400975.1	Ethics in Health Research
200719.2	Industrial Relations and Workplace Change
200852.2	Innovation, Creativity and Foresight
200851.1	Innovation for New Markets
401076.1	Introduction to Epidemiology
200737.3	Marketing Systems
301185.1	Nutrition Promotion
301184.1	Nutritional Assessment Methods
300391.2	Occupational Health Management
101634.2	Planning and Environmental Regulation
301005.2	Professional Practice and Communication
51240.5	Project Management
300677.3	Safety and Risk Management
200329.4	Supply Chain Management
301003.1	Sustainable Systems

Postgraduate Admission Pathway - Master of Science (Food Science) - 1 year pathway

A4040.1

The Master of Science specialising in Food Science is designed for graduates interested in furthering a career in food science and technology, working in a variety of settings, such as food manufacturing, research and development, regulatory affairs, technical and senior

management. Graduates will develop knowledge and skills to meet future challenges to the food supply including sustainability, food safety, and health and nutrition, applicable to both Australian and global contexts. This specialisation develops essential content knowledge, analytical skills and mastery of laboratory methods and quality assurance through an integrated set of units in food processing, quality assurance, food evaluation techniques and new product development. In particular, these units are all directed towards solving current and future challenges. Students will be prepared to become professional food scientists with the cognitive, technical and critical thinking skills to analyse issues and articulate appropriate solutions. Students will become familiar with the University's food pilot plant and commercial kitchen and be able use these facilities to practise their skills and application of knowledge and skills. A capstone unit involving professional research project allows students to integrate their knowledge and skills developed from the whole program and build on research skills that are scaffolded through the curriculum.

to further their career in public health and health promotion; working in a variety of settings, such as local, state or national health organisations, non-government organisations, population health units, community health centres, and international aid agencies. Roles may include, health promotion officer, research and evaluation officer, monitoring and surveillance officer, and health policy officer. The program draws on and complements the Master of Public Health, providing an attractive postgraduate pathway for students with prior nutrition knowledge. This specialisation build an integrated understanding of relevant aspects of community and public health nutrition and its interrelation with other relevant disciplines including, behavioural sciences and nutrition/health education, social sciences, economics, politics, food and nutrition systems, and public health systems. A capstone unit involving a public health nutrition research project allows students to integrate their knowledge and skills developed from the whole program and build on research skills that are scaffolded through the curriculum.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Applicants must have an Honours, Graduate Diploma or higher in science, health science, medical science or engineering with a major in food science, food technology, food engineering, human nutrition, dietetics, chemistry, biology, microbiology, or chemical engineering.

Master of Science (Food Science) 80 credit points

Students must complete the following core units

301181.1	Food Evaluation
301180.1	Food Preservation and Packaging Technologies
301183.1	Food Product Design
301182.1	Food Quality Management
401077.1	Introduction to Biostatistics
301004.1	Research Preparation in Post Graduate Studies

Capstone Research Unit

Students must complete at least 20 credit points from the following units

400850.3	Professional Topic
401078.2	Research Project
401080.2	Research Protocol Design and Practice

Postgraduate Admission Pathway - Master of Science (Public Health Nutrition) - 2 year pathway

A4041.1

The Master of Science specialising in Public Health Nutrition is designed for human nutrition graduates seeking

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Applicants must have a Bachelor Degree in any science, health science, or engineering discipline;

Or

A Graduate Certificate in food science, food technology, food engineering, human nutrition, dietetics, chemistry, biology, microbiology, health science and a minimum two years full-time equivalent work experience in food, human nutrition, dietetic, or related industries professions may be considered for entry.

Recommended Sequence

Master of Science (Public Health Nutrition) 160 credit points

Qualification for this award requires the successful completion of 160 credit points which include five core units, one capstone unit (selected from two options), and two alternates.

Core Units

Students must complete the following core units

301186.1	Community and Public Health Nutrition
401077.1	Introduction to Biostatistics
401076.1	Introduction to Epidemiology
301184.1	Nutritional Assessment Methods
301185.1	Nutrition Promotion
400416.2	Public Health, Policy and Society

Capstone Research Unit

Students must complete at least 20 credit points from the following units

401079.2	Dissertation (Full Time)
401282.1	Dissertation (Part Time)

401282 Dissertation (Part time) is completed over two teaching sessions, thus students will need to enrol twice in this unit.

400850.3	Professional Topic
401078.2	Research Project
401080.2	Research Protocol Design and Practice

Alternate Public Health Nutrition Unit Pool (all Level 7)

Students select up to 80 credit points from the 'Alternate Public Health Nutrition unit pool' to complete 160 credit points

400841.3	A Global Perspective on Social Determinants of Health
401175.1	Analytic Approaches in Epidemiology
400846.3	Building Organisational Capacity in Health Care
200823.1	Buyer Behaviour

Note: In 2019 unit 200823 replaced by 201022 - Customer Experience.

201022.1	Customer Experience
400840.3	Communicable Diseases
401178.1	Controversies in Epidemiology
401179.2	Data Management and Programming for Epidemiology
301044.1	Data Science
101636.2	Developing Sustainable Places
401174.1	Epidemiology of Non-Communicable Diseases
400975.1	Ethics in Health Research
301181.1	Food Evaluation
301180.1	Food Preservation and Packaging Technologies
301183.1	Food Product Design
301182.1	Food Quality Management
301118.1	Genomic Data Science
400418.4	Health Advancement and Health Promotion
400837.3	Health and Socio-political Issues in Aged Care
400967.2	Health Economics and Comparative Health Systems
400844.2	Health Services and Facilities Planning
400843.3	Health Workforce Planning
200852.2	Innovation, Creativity and Foresight
200851.1	Innovation for New Markets
401173.1	Introduction to Clinical Epidemiology
401081.2	Organisational Governance and Performance Management
400238.3	Policy, Power and Politics in Health Care Provision
51240.5	Project Management
401238.1	Qualitative Research Methodology in Health
301004.1	Research Preparation in Post Graduate Studies
301116.1	Social Media Intelligence
401176.1	Statistical Methods in Epidemiology
400847.3	Surveillance and Disaster Planning
301114.1	The Nature of Data
102180.2	Translation from Theory and Research to Policy
301112.1	Visualisation

Postgraduate Admission Pathway - Master of Science (Public Health Nutrition) - 1.5 year pathway

A4042.1

The Master of Science specialising in Public Health Nutrition is designed for human nutrition graduates seeking to further their career in public health and health promotion; working in a variety of settings, such as local, state or national health organisations, non-government organisations, population health units, community health centres, and international aid agencies. Roles may include, health promotion officer, research and evaluation officer, monitoring and surveillance officer, and health policy officer. The program draws on and complements the Master of Public Health, providing an attractive postgraduate pathway for students with prior nutrition knowledge. This specialisation build an integrated understanding of relevant aspects of community and public health nutrition and its interrelation with other relevant disciplines including, behavioural sciences and nutrition/health education, social sciences, economics, politics, food and nutrition systems, and public health systems. A capstone unit involving a public health nutrition research project allows students to integrate their knowledge and skills developed from the whole program and build on research skills that are scaffolded through the curriculum.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Applicants must have successfully completed an undergraduate degree, or higher, in science, applied science or health and have a minimum of one year full-time professional work experience (or equivalent) in a field that is related to the intended Specialisation.

Or

A Bachelor Degree in any science, health science, or engineering discipline and a minimum two years full-time equivalent work experience in food, human nutrition, dietetic, hospitality or related industries professions.

Master of Science (Public Health Nutrition) 120 credit points

Core Units

Students must complete the following core units

301186.1	Community and Public Health Nutrition
401077.1	Introduction to Biostatistics
401076.1	Introduction to Epidemiology
301184.1	Nutritional Assessment Methods
301185.1	Nutrition Promotion
400416.2	Public Health, Policy and Society

Capstone Research Unit

Students must complete at least 20 credit points from the following units

- 401079.2** Dissertation (Full Time)
401282.1 Dissertation (Part Time)

401282 Dissertation (Part time) is completed over two teaching sessions, thus students will need to enrol twice in this unit.

- 400850.3** Professional Topic
401078.2 Research Project
401080.2 Research Protocol Design and Practice

Alternate Public Health Nutrition Unit Pool (all Level 7)

Students select up to 40 credit points from the 'Alternate Public Health Nutrition unit pool' to complete 120 credit points

- 400841.3** A Global Perspective on Social Determinants of Health
401175.1 Analytic Approaches in Epidemiology
400846.3 Building Organisational Capacity in Health Care
200823.1 Buyer Behaviour

Note: In 2019 unit 200823 replaced by 201022 - Customer Experience.

- 201022.1** Customer Experience
400840.3 Communicable Diseases
401178.1 Controversies in Epidemiology
401179.2 Data Management and Programming for Epidemiology
301044.1 Data Science
101636.2 Developing Sustainable Places
401174.1 Epidemiology of Non-Communicable Diseases
400975.1 Ethics in Health Research
301181.1 Food Evaluation
301180.1 Food Preservation and Packaging Technologies
301183.1 Food Product Design
301182.1 Food Quality Management
301118.1 Genomic Data Science
400418.4 Health Advancement and Health Promotion
400837.3 Health and Socio-political Issues in Aged Care
400967.2 Health Economics and Comparative Health Systems
400844.2 Health Services and Facilities Planning
400843.3 Health Workforce Planning
200852.2 Innovation, Creativity and Foresight
200851.1 Innovation for New Markets
401173.1 Introduction to Clinical Epidemiology
401081.2 Organisational Governance and Performance Management
400238.3 Policy, Power and Politics in Health Care Provision
51240.5 Project Management
401238.1 Qualitative Research Methodology in Health
301004.1 Research Preparation in Post Graduate Studies
301116.1 Social Media Intelligence

- 401176.1** Statistical Methods in Epidemiology
400847.3 Surveillance and Disaster Planning
301114.1 The Nature of Data
102180.2 Translation from Theory and Research to Policy
301112.1 Visualisation

Postgraduate Admission Pathway - Master of Science (Public Health Nutrition) - 1 year pathway**A4043.1**

The Master of Science specialising in Public Health Nutrition is designed for human nutrition graduates seeking to further their career in public health and health promotion; working in a variety of settings, such as local, state or national health organisations, non-government organisations, population health units, community health centres, and international aid agencies. Roles may include, health promotion officer, research and evaluation officer, monitoring and surveillance officer, and health policy officer. The program draws on and complements the Master of Public Health, providing an attractive postgraduate pathway for students with prior nutrition knowledge. This specialisation build an integrated understanding of relevant aspects of community and public health nutrition and its interrelation with other relevant disciplines including, behavioural sciences and nutrition/ health education, social sciences, economics, politics, food and nutrition systems, and public health systems. A capstone unit involving a public health nutrition research project allows students to integrate their knowledge and skills developed from the whole program and build on research skills that are scaffolded through the curriculum.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Applicants must have an Honours, Graduate Diploma or higher in science, health science, medical science or engineering with a major in food science, food technology, food engineering, human nutrition, dietetics, chemistry, biology, microbiology, or chemical engineering.

Master of Science (Public Health Nutrition) 80 credit points**Core Units**

Students must complete the following core units

- 301186.1** Community and Public Health Nutrition
401077.1 Introduction to Biostatistics
401076.1 Introduction to Epidemiology
301184.1 Nutritional Assessment Methods
301185.1 Nutrition Promotion
400416.2 Public Health, Policy and Society

Capstone Research Unit

Students must complete at least 20 credit points from the following units

- 400850.3** Professional Topic
- 401078.2** Research Project
- 401080.2** Research Protocol Design and Practice

GRADUATE RESEARCH SCHOOL

Graduate Certificate in Researcher Engagement, Development and Impact

8111.1

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 2H, 2018 or later.

The purpose of this course is to formally recognise and acknowledge the many and varied skills you develop during your higher degree by research candidature, as well as providing you with opportunities to enhance and refine the skills you will require for employment in an ever-changing workforce. This course will prepare you for a career both within academia and beyond, including areas such as public policy development, innovation and entrepreneurship. Designed to complement the key milestones that are part of your PhD journey, this course also provides you with a scaffolded structure to ensure timely completion of your research degree. By completing this course, you will become more than a researcher, you will be competitive in an increasingly changing job market and ready for the challenges that lie ahead developing skills in communication, impact and engagement.

Study Mode

Three years part-time.

Location

Campus	Attendance	Mode
Bankstown Campus	Part Time	Internal
Campbelltown Campus	Part Time	Internal
Hawkesbury Campus	Part Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal
Penrith Campus	Part Time	Internal

Admission

Students must be enrolled in a Higher Degree Research Doctoral course (D.Ed, PhD, DCR, DCA, DBA, D. Medicine)

Course Structure

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

The Graduate Certificate in Researcher Engagement, Development and Impact (GCREDI) has been designed to utilise the current HDR workshop program packaged into units and incorporate the current milestones HDR students are required to complete as part of their candidature. It all commences on day one at Orientation that focusses the student and their supervisor on setting objectives for the future and clarifying the expectations required of them. Orientation provides a structured introduction to the PhD and reinforces the need to develop transferrable skills beyond the thesis during their candidature.

This course consists of 60 credit points (six units), with four compulsory core units, one specialisation unit and one elective.

Core Units

800198.1	Career and Personal Development
800199.1	Knowledge Translation
800197.1	Researcher Knowledge and Development
800209.1	Researcher Engagement and Impact

Specialisation Units

Students choose one unit depending on career development goals

800211.1	Applied Innovation and Entrepreneurship
800212.1	Research and Public Policy

Elective Units

Recommended Elective

800176.2	Internship and Community Engagement (PG)
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There is also the possibility for candidates to enrol in a suitable unit already on offer across the university should this address a skills gap identified in the biannual Progress Report. Enrolment in units external to the GRS would require the permission of the relevant unit coordinator and school/institute.

Recommended Sequence

800198.1	Career and Personal Development
800199.1	Knowledge Translation
800209.1	Researcher Engagement and Impact
800197.1	Researcher Knowledge and Development

Choose one of

800211.1	Applied Innovation and Entrepreneurship
800212.1	Research and Public Policy

Or one elective unit agreed with your Supervisor

Choose one of

800176.2	Internship and Community Engagement (PG)
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Or one elective unit

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.

400841.3 A Global Perspective on Social Determinants of Health

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

.....

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.

Unit Enrolment Restrictions

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.

301211.1 Advanced Biomedical Data and Images

Credit Points 10 **Level** 7

Assumed Knowledge

Signals theory; computer skills including use of MATLAB

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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This unit will cover advanced biomedical signal and data analysis including electrocardiography, electroencephalography, human-computer-interface, electromyography, machine learning and biomedical images. This unit will have a strong practical design focus with laboratories and tutorials focused on the design of usable software packages dealing with real biomedical signals.

301209.1 Advanced Biomedical Electronics

Credit Points 10 **Level** 7

Assumed Knowledge

General principle of circuits analysis and simulation
Electronic amplifiers Principle of Instrumentation and Measurements

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

.....

This unit will cover advanced design of biomedical electronic devices including, implanted devices, human-computer-interface, bioinstrumentation and neuromorphic engineering. Topics covered span from the bioelectromagnetism and related applications to regulatory aspects (IEC standards and TGA/FDA approval processes) and electrical safety of instrumentation. This unit will have a strong practical design focus with laboratories and tutorials focused on the design of real instrumentation (including manufacturing) dealing with real biomedical signals.

401202.1 Advanced Clinical Practice in Mental Health Nursing

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

400957.4 Biological Considerations in Mental Health and Mental Illness for Advanced Practice AND **400228.3** Assessment for Advanced Practice Mental Health Nurses

AND **400858.3** Psychopharmacology for Advanced Practice Mental Health Nurses

Equivalent Units

400859 Advanced Mental Health Nursing Clinical Practice 1; 400860 Advanced Mental Health Nursing Clinical Practice 2

Unit Enrolment Restrictions

Students must be enrolled in 4745 Master of Mental Health Nursing (Nurse Practitioner) course. It is a requirement that students are working in mental health services at an advanced practice level, must nominate a Primary Mentor and must nominate a clinical panel.

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Students are required to demonstrate the capacity to work autonomously in a mental health setting and be able to utilise supervision to support achievement of unit learning outcomes. Students undertake at least 300 hours supervised advanced clinical practice in assessment, treatment planning and provision of care for clients in a mental health setting. Clinical practice supervision and support is provided by a Primary Supervisor/Mentor/ Assessor and a multidisciplinary clinical support network who will 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 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 Nurse Practitioner Standards for Practice.

301008.1 Advanced Composite Structures

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

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.

Unit Enrolment Restrictions

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

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.

Unit Enrolment Restrictions

Students must be enrolled in 3693 Master of Engineering, 3695 Graduate Certificate in Engineering, or the Master of Research.

Special Requirements - 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.

301188.1 Advanced Contract Management

Credit Points 10 **Level** 7

Assumed Knowledge

Basic knowledge on construction management.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit introduces various contract types and risks involved in construction project management. The unit extends to examining contractual claims management and procedures together with alternative dispute resolution methods. The unit will further help students to understand change management process and develop a change management plan.

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 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; Introductory Classical Control Systems Theory; Familiarity with MATLAB.

Incompatible Units

300211 - Digital Control, 300172 - Advanced Control Systems

Unit Enrolment Restrictions

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.

301151.1 Advanced Criminalistics

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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This unit is designed to provide an in-depth knowledge of the following eight evidence categories: glass, textile fibres, paint, fire debris, explosives, firearm discharge residues, illicit drugs, and hair. Each stand-alone module introduces the evidence type and its forensic significance, details the relevant distinguishing and discriminating characteristics for the trace material in question, presents the analytical techniques commonly applied in the criminalistics laboratory, and discusses data interpretation and evidential value. The unit is unique in terms of its coverage of these trace evidence categories from an operational forensic science perspective. This unit is taught by the University of Canberra as part of a collaborative venture between the University of Canberra and Western Sydney University. Note: Further information on this unit is available from the University of Canberra.

300173.3 Advanced Data Networks

Credit Points 10 **Level** 7

Assumed Knowledge

Communication Systems / Digital Communication

Unit Enrolment Restrictions

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.

301239.1 Advanced Design Communication

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 3761 Master of Architecture (Urban Transformation)

Special Requirements - Essential Equipment

Laptop with required software, per course 3761 requirements.

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Advanced Design Communication is a core architecture seminar in the Master of Architecture (Urban Transformation) course that will explore contemporary methods of design generation and visualisation, representation techniques, and collaboration tools, including but not limited to digital fabrication, computational and algorithmic design, simulation, virtual and augmented reality, building information modelling, parametric design, and scripting. Students will undertake case studies from the community of practice and precedents in this disciplinary domain, including an investigation of how emerging technologies are used in existing professional settings locally and internationally. Students will develop their own design-based enquiry to apply knowledge and skills acquired in the seminar that result in a project and report of their work.

301019.1 Advanced Dynamic Systems

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

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)

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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In this unit, the students will be working on a major engineering project as a team of 2 to 5 students. The project will be supervised by an academic staff on topics related to his/her research expertise. The students will apply and further develop their expertise in research, engineering project management and planning, work health and safety, and professional writing skills. The students are required to present outcomes using a professional report which should include a background, objectives, a comprehensive literature review, the methodology and a project plan which can then be completed in Advanced Engineering Project 2.

301007.1 Advanced Engineering Project 2

Credit Points 10 **Level** 7

Prerequisite

301006.1 Advanced Engineering Project 1

Corequisite

301027.1 Industrial Experience (PG)

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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In this unit, students will complete the major engineering project commenced in unit 301006 Advanced Engineering Project 1. The students are expected to develop advanced technical knowledge and skills in their field of study as well as the ability to function effectively as an individual in a team, with the capacity to be a leader or manager. The students are required to present outcomes using a professional report and an oral presentation.

300604.3 Advanced Geotechnical Engineering

Credit Points 10 **Level** 7

Assumed Knowledge

Fundamental knowledge of soil mechanics.

Equivalent Units

300520 - Foundation Engineering (PG)

Unit Enrolment Restrictions

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.

301178.1 Advanced Health Classifications and Coding

Credit Points 10 **Level** 7

Assumed Knowledge

Student must have a general knowledge in relation to healthcare systems

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit is designed to enable the student to classify diseases and interventions using the current version of the International Statistical Classification of Diseases and Related Health Problems, Tenth Revision, Australian Modification, the Australian Classification of Health Interventions and the Australian Coding Standards (ICD-10-AM/ACHI/ACS). The unit will also include the historical development of clinical classification systems as well as the purpose and value of classifying diseases and interventions within the health system. The students will become familiar with the structure and content of ICD-10-AM ACHI/ACS and be introduced to the rules and conventions associated within ICD-10-AM/ACHI. Further, students will carry out research based analytical tasks gaining an in-depth knowledge in relation to health classification systems and terminology systems such as SNOMED-CT (Systematized Nomenclature of Medicine - Clinical Terms).

301028.1 Advanced Healthcare Data Environments

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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In this unit students will learn the concepts underpinning the services computing paradigm of "bridging the gap between Business Services and IT Services". Services Computing technology includes Web services and service-oriented architecture (SOA), business consulting methodology and utilities, business process modelling, transformation and integration. Students will learn, through the development of practical examples, how to utilise these technologies within a healthcare context. 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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Access to a computer is required.

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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.

301020.1 Advanced Mobile Robotics

Credit Points 10 **Level** 7

Assumed Knowledge

Some basic skills in MATLAB and C/C++ programming.

Unit Enrolment Restrictions

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.

Unit Enrolment Restrictions

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.

Unit Enrolment Restrictions

Students must be enrolled in 3693 Master of Engineering, 3695 Graduate Certificate in Engineering or the Master of Research.

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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.

Unit Enrolment Restrictions

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.

401247.1 Advanced Principles and Practice of Cardiac Sonography

Credit Points 10 **Level** 7

Prerequisite

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

Unit Enrolment Restrictions

Students must be enrolled in the Master of Cardiac Sonography.

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This unit is an essential part of the final year of the Masters in Cardiac Sonography. It will build on the student's knowledge and skills gained in prior units, as they select and study a contemporary cardiac ultrasound technology. Students are required to research and write a literature review about their chosen technology, and to evaluate their own use of the technology in clinical practice. In addition,

students will have the opportunity to teach first year cardiac sonographers, and write a reflection on their teaching experience.

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

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

Students must be enrolled in the online course Master of Advanced Networking or any other postgraduate Western Sydney University program where this unit can be taken as an unspecified elective and where there are sufficient credit points available in the study program.

Special Requirements - Essential Equipment

Students must have access to the internet and appropriate hardware and software for online study.

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As a Cisco Academy, Western Sydney University 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

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

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, Markovian and Hidden Markov Models, 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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit will introduce students at postgraduate level to structural analysis of trusses, beams, frames and plates. It covers the slope deflection method and matrix method for analysis of beams, trusses and frames, and the bending and buckling analysis of beams and plates under various loading conditions. The theories learned in classes will be reinforced in practical sessions by using computer software packages.

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.

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

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.

301196.1 Advanced Topics in Artificial Intelligence

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; 300769 Intelligent Agents for eMarkets

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit introduces the most fundamental techniques of artificial intelligence (AI), including knowledge representation, searching, machine learning and intelligent agents. Students will learn the basic theories and algorithms that are essential in the design and development of intelligent systems. The unit will focus on two typical AI applications: game playing and e-trading. Students will have the chance of using existing multiagent system platforms to design and develop intelligent software for game playing and automated trading in e-markets.

301236.1 Advanced Topics in Cybersecurity

Credit Points 10 **Level** 7

Assumed Knowledge

The students should be familiar with the fundamentals of computer networking and security. It is advisable that the students must have either taken appropriate units in these areas (e.g., 300695 Network Technologies and 300696 Systems and Network Security) or have equivalent knowledge.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit focuses on the advanced features of Cybersecurity, contemporary views on security, and the solutions that aim to protect the emerging services and technologies. The emphasis is on the development of student skills to enable them to do proficient research and development works and studies in the cybersecurity discipline. On successful completion of this unit, students will be equipped with an in-depth understanding of relevant issues, attacks on massively interconnected systems, and the evolving approaches to improve the reliability of advanced services.

300694.3 Advanced Topics in ICT

Credit Points 10 **Level** 7

Prerequisite

[301005.1](#) Professional Practice and Communication

Corequisite

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.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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 here 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.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

.....

This unit focuses on the advanced features of networked systems and the emerging network technologies and services. The unit provides students with an in-depth understanding of relevant protocols, the emerging standards, and standards organisations. The emphasis of the unit is on development of the student skills to enable them to do proficient research and development works and studies in the computer networking discipline.

301045.2 Advanced Topics in User System Interaction

Credit Points 10 **Level** 7

Incompatible Units

300570 - Human-Computer Interaction; 300901 - Human-Computer Interaction (Advanced)

Unit Enrolment Restrictions

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, 3702 Master of Information and Communications Technology (Research), 1836 Master of Digital Humanities 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

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

This is a specialised unit in a specialist discipline in Master of Engineering program. Students must be enrolled in a postgraduate engineering program undertaking a Civil Engineering specialisation or in the Master of Research.

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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.

401249.1 Allergic Sciences 1

Credit Points 20 **Level** 7

Assumed Knowledge

Must have completed a medical degree (MBBS, MBChB or equivalent qualification) and preferably have previous clinical experience.

Equivalent Units

400988 Allergic Sciences 1 AND 400989 Allergic Sciences 2, 401063 Allergic Sciences

Unit Enrolment Restrictions

Students must be enrolled in course Graduate Certificate in Allergic Diseases, the Graduate Diploma in Allergic Diseases (exit only) or Master of Medicine (Allergic Diseases). Students must be qualified and registered medical practitioners.

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform vUWS at <https://vuws.westernsydney.edu.au/>.

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This unit will consist of four online modules dealing with the immunological and clinical aspects of allergic diseases. These modules will cover basic immunology and fundamental theoretical and clinical concepts underlying Eczema and Contact Dermatitis, Urticaria and Angioedema, and Drug Hypersensitivity Reactions, Insect Allergy and Anaphylaxis. The purpose of Allergic Sciences 1 is to provide students with sound knowledge of essential immunological principles and common allergic conditions. Students will use self directed learning to link basic science with clinical understanding, and must attend a written exam at a university approved venue for one of the assessments.

401250.1 Allergic Sciences 2

Credit Points 20 **Level** 7

Assumed Knowledge

Students must have completed a medical degree (MBBS, MBChB or equivalent qualification) and preferably have a basic understanding of core immunological concepts and previous clinical experience.

Prerequisite

401249.1 Allergic Sciences 1

Equivalent Units

400988 - Allergic Sciences 1 and 400989 - Allergic Sciences 2, 401063 - Allergic Sciences

Unit Enrolment Restrictions

Students must be enrolled in the Graduate Certificate in Allergic Diseases or Master of Medicine (Allergic Diseases). Students must be qualified and registered medical practitioners.

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This unit will consist of four online modules dealing with the immunological and clinical aspects of allergic diseases. These modules will cover fundamental theoretical and clinical concepts underlying Food Allergy, Allergic Airways Diseases, and Rhinoconjunctivitis, Sinusitis and Immunotherapy. The purpose of Allergic Sciences 2 is to complement Allergic Sciences 1 and provide students with comprehensive knowledge for managing patients with allergic conditions in clinical practice. Students will use self directed learning to link basic science with clinical understanding, and must attend a written exam at a university approved venue for one of the assessments.

200499.6 Alternative Solutions for Bushfire Prone Areas

Credit Points 10 **Level** 7

Assumed Knowledge

Students must have prior knowledge of Bushfire behaviour, planning, building, bushfire fighting and emergency management.

Prerequisite

200457.4 Bushfire Behaviour AND **300708.4** Planning and Development Control AND **301049.1** Planning for Bushfire Prone Areas AND **301103.1** Interpreting Building Regulations (Residential Buildings) AND **200458.3** Building in Bushfire Prone Areas AND **200500.3** Bushfire Fighting AND **300948.2** Fire Technology and Engineering Principles

Corequisite

200459.3 Emergency Management for Bushfire Prone Areas

Unit Enrolment Restrictions

Students must be enrolled in 3709 Graduate Diploma in Bushfire Protection or 3708 Masters in Bushfire Protection.

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This unit describes the processes and techniques available to develop performance outcomes to the planning and building of structures required for bushfire protection in

Australia. The course builds on previous units in the course to consider the concept of bushfire protection measures in combination and associated methods so as to reduce the impacts of bushfire on life, property and the environment. It also introduces the 'bushfire protection guidelines' and processes similar to that used in developing performance solutions under the National Construction Code. These include the use of event tree analysis, verification methods, consideration of climate change and the use of annual exceedance probabilities when developing performance solutions. Students are required to develop suitable measures through a performance solution for bushfire protection of a building.

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.

Prerequisite

401076.1 Introduction to Epidemiology OR **401173.1** Introduction to Clinical Epidemiology

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate 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.

401204.1 Applied Clinical Practice using Simulation

Credit Points 10 **Level** 7

Assumed Knowledge

A fundamental understanding in the areas of patient assessment skills, pathophysiology and pharmacology.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate or non-award course.

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Components of skilled nursing practice in acute and critical care settings include clinical reasoning, accountability and patient advocacy. In this unit students will identify a complex case study from their current practice world as the basis for their assessment. This unit utilises clinical simulation and a case study approach to enable students to develop their clinical expertise in their individual workplace. Students will be required to participate in clinical simulation

workshops which will be utilised to develop and enhance clinical nursing skills in acute or critical care settings.

301235.1 Applied Cybersecurity

Credit Points 10 **Level** 7

Prerequisite

300695.2 Network Technologies

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit covers the current approaches, technologies, and applied practices pertinent to cybersecurity and helps the student to understand important related protocols and standards. It describes the features needed for the mitigation of cyber vulnerabilities for improving the reliability of the underlying systems, privacy preservation, and achieving protections against cybercrime and internet fraud. It also examines the basics of ethical hacking, network assurance, cyber risk management, and incident analysis. The unit discusses the trends in applied cybersecurity and introduces some of the relevant current key research issues and features of the field.

800211.1 Applied Innovation and Entrepreneurship

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a PhD course.

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Entrepreneurial & innovative skills are more important than ever for today's graduates where applying creativity to drive commercial outcomes is commonplace both for those working inside organisations and those developing their own business. This unit, based on the fundamental principle of 'doing', proposes to deliver principles and content through a highly applied approach. This is a unit that teaches entrepreneurship in a fundamentally different way to the traditional course structures. The unit is delivered through Western Sydney University's highly successful "Launch Pad Innovation Centre" which provides both Tech Start-up and SME business support. This unit maximises the opportunity for real-world application by delivering through a case study driven approach and utilising a mix of presenters including: academia, business mentors, industry specialists from Launch Pad partners such as KPMG, NAB and government industry representatives, and actual start-up and SME business owners as guest lecturers.

401167.1 Applied Research in Health Care

Credit Points 10 **Level** 7

Equivalent Units

400200 - Applied Nursing Research

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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.

400856.2 Approaches to Epidemiology

Credit Points 10 **Level** 7

Equivalent Units

HC812A - Approaches to Epidemiology

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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

Prerequisite

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.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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

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.

301154.1 Biological Agents 1

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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This unit introduces students to the key concepts involved in Biosecurity and Microbial Forensics, with a focus on understanding the types of biological agents that pose potential security risks and the system and practices involved in investigation and management of potential threats. This unit is taught by the University of Canberra as part of a collaborative venture between the University of Canberra and Western Sydney University. Note: Further information on this unit is available from the University of Canberra.

301155.1 Biological Agents 2

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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This unit builds on the knowledge gained in the Biological Agents 1 and develops students' understanding of the tools and processes involved in the field of biosecurity. This unit is taught by the University of Canberra as part of a collaborative venture between the University of Canberra and Western Sydney University. Note: Further information on this unit is available from the University of Canberra.

400957.5 Biological Considerations in Mental Health and Mental Illness for Advanced Practice

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

For students enrolled in 4745 only 400220 Contemporary Professional Practice in Mental Health Nursing and 401168 Evidence-based Healthcare and 400235 Leadership in Clinical Practice

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit examines neuroanatomy and neurophysiology as they apply to altered thought, mood, perception and behaviour associated with mental illness and knowledge of physical health problems commonly associated with psychiatric treatment and/or mental illness, their identification, management and treatment.

401088.1 Bioscience for Midwifery Practice

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

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.

Special Requirements - Essential Equipment

Computer and internet access

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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.

301149.1 Blood Distribution and Spatter

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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This unit will provide an in-depth review of the principles of blood spatter creation, and blood stain interpretation as it pertains to biological evidence. This unit is taught by the University of Florida as part of a collaborative venture

between the University of Florida and Western Sydney University. Note: Further information on this unit is available from the University of Florida.

300713.3 Building Engineering

Credit Points 10 **Level** 7

Equivalent Units

EN808A - Building Engineering

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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.

201019.1 Business Analytics in Practice

Credit Points 10 **Level** 7

Equivalent Units

200822 - Applied Marketing Solutions

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This unit will explore and analyse ideas and concepts related to business intelligence and advanced analytics in business and broader economic contexts. The ability to identify, gather, extract, and analyse data is vital to organisations. Business analytics uses a variety of software applications to transform such data into useful information that can then be used for constructive decision making, improving operational effectiveness and efficiencies and identifying new business opportunities.

200838.1 Business Operations and Logistics

Credit Points 10 **Level** 7

Equivalent Units

200782 - Business Operations Management

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course or 3749 Master of Science.

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This unit introduces students to operations and logistics management theory and practice. Operations and logistics management is an important element of business strategy and it is integral to both service and manufacturing industries. Students will develop an appreciation of the latest trends in business operations and logistics management and the applications currently adopted in organisations and industries. They will also learn to apply quantitative techniques for formulating/analysing problems and providing recommended solutions. This unit provides an excellent foundation for further specialisation in logistics and supply chain management but also works well for students in general business operations programs.

200829.3 Business Project

Credit Points 20 **Level** 7

Assumed Knowledge

Understanding of the business environment and organisational structures, business communications skills,

business strategy, as well as substantial knowledge in the discipline of specialisation.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course or in course 3748 Master of Information Governance. Students in the following course must have successfully completed 60 credit points before undertaking this unit: 2764 Master of Commerce (Human Resource Management). Students in the following courses must have successfully completed 40 credit points before undertaking this unit: 2624 Master of Business (Operations Management) and 2725 Master of Commerce (Property Investment and Development). Students in course 2761 Master of Business Administration must have completed all core units plus 40 credit points of specialisation units (i.e. a total of 80 credit points) and must obtain permission of the Director of Academic Program.

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Business Project equips professionals to address contemporary challenges through research and applying knowledge developed in earlier units of study. This student-centred unit provides close supervision of research and analytical practices to enhance skill development and capacity to engage with problems confronting organisations, taking account of contexts and multiple stakeholders. Students will have scope to focus on issues that are of particular concern to organisations or interest for their careers. As an integrating unit, it demands participants bring together their knowledge and curiosity to develop recommendations in a format that can showcase their achievements. In order to complete this unit, students must have studied this unit over two teaching periods.

200823.1 Buyer Behaviour

Credit Points 10 **Level** 7

Equivalent Units

200732 - Creating Markets, 51003 - Buyer Behaviour

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course or 3749 Master of Science.

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In 2019 this unit replaced by 201022 - Customer Experience. Understanding buyers and the market they interact in is central to the effective management of the marketing system. This unit is designed to provide a framework for exploring well-established, current, and emerging topics in consumer behaviour. An applied approach is used to explore how buyers from different social and culturally diverse backgrounds behave. Using this information to make business decisions will also be introduced.

401083.2 Capstone Experience in Health Care

Credit Points 20 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course and have successfully completed 40 credit points at Level 7.

Special Requirements - Essential Equipment

Access to the internet and a computer.

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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.

800198.1 Career and Personal Development

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a PhD course.

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A key skill in becoming a professional researcher is learning how to manage your career options. Fundamental aspects of this include making strategic choices regarding research focus and employment directions, learning to build professional networks both locally and internationally, and undertaking self-directed learning to continually expand your abilities and knowledge. This unit is designed to provide a structured approach to these aspects of career planning, and will include collaborative workshops where experienced researchers join the group to discuss the art of navigating around external constraints while forging your own path forward. As an early application of these principles, the unit involves completion of your Confirmation of Candidature proposal.

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

Unit Enrolment Restrictions

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).

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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

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

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.

Special Requirements - Essential Equipment

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

Unit Enrolment Restrictions

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.

401272.1 Chronic Disease Management in Rural Practice

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled on Masters of Medicine (Rural Generalism)

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform vUWS at <https://vuws.westernsydney.edu.au/>

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This unit will examine the pathophysiology, epidemiology, clinical presentation and treatment of chronic diseases in rural and remote settings in the Australian context. Students will develop systems to effectively manage chronic disease within their clinical environment and consider key aspects of the professional practice required of doctors caring for patients with chronic diseases. This

unit will also introduce the concepts of collaboration with a multidisciplinary team.

401064.3 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 medical practitioner in clinical practice. Also, must have sound knowledge and understanding of immunological concepts and clinical aspects of allergic diseases including diagnosis and management.

Prerequisite

401249.1 Allergic Sciences 1 AND **401250.1** Allergic Sciences 2

Equivalent Units

400990 - Clinical Allergy 1, 400991 - Clinical Allergy 2

Unit Enrolment Restrictions

Students must be enrolled in 4689 Graduate Certificate in Allergic Diseases OR 4753 Master of Medicine (Allergic Diseases)

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform vUWS at <https://vuws.westernsydney.edu.au/>.

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This yearlong unit will consist of 50 hours of supervised consultation of patients with allergic diseases within the setting of a specialist Immunology/Allergy clinic. The purpose of Clinical Allergy is to apply previously acquired knowledge of allergic diseases to patient care in real time. Students will be supervised by experienced Clinical Immunologists/Allergists and develop skills in allergy diagnosis and management of children and adults. Clinical experiences will include history taking, physical examination, skin prick testing and spirometry interpretation, and management of various allergic conditions. Students will need to participate in online case conference discussions also, and attend two course workshops, the Australasian Society of Clinical Immunology and Allergy (ASCIA) Annual Scientific Meeting and the Macarthur Series in Immunology.

401130.1 Clinical Application of Classical Chinese Herbal Medicine

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

Students must be enrolled in 4716 Master of Chinese Medicine.

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This unit provides four 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.

401284.1 Clinical Practice in Diabetes 1

Credit Points 10 **Level** 7

Assumed Knowledge

Basic knowledge and understanding of diabetes pathophysiology and sufficient experience working with diabetes patients in a clinical setting.

Unit Enrolment Restrictions

Must be enrolled in the a post graduate course with evidence of 12 month clinically relevant practice or substantial experience in working with people with diabetes

Special Requirements - Essential Equipment

Students will need a computer and reliable internet access

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This unit introduces students to the aetiology, pathophysiology and clinical picture of the various types of diabetes and the short and long term physical impact on individuals. This is the basis for all clinical units in this course. Students will comprehensively examine the overall management of the different types of diabetes that are fundamental for advance and specialised diabetes clinical practice.

401286.1 Clinical Practice in Diabetes 2

Credit Points 10 **Level** 7

Assumed Knowledge

Basic knowledge and understanding of pathophysiology and clinical diabetes.

Prerequisite

401284.1 Clinical Practice in Diabetes 1 AND **401285.1** Diabetes Self-Management Support 1: Individuals

Unit Enrolment Restrictions

Must be enrolled in 4761 Graduate Certificate or 4762 Graduate Diploma in Person-centred Diabetes Care and Education

Special Requirements - Essential Equipment

Students will need a computer and reliable internet access

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This unit will focus on the disease process leading to chronic complications of diabetes. Students will examine the screening process, interventions and the management of established microvascular and macrovascular disease associated with diabetes. Students investigate the elderly and vulnerable populations for the synthesis of individualisation of diabetes care and management. Health practitioner clinical skills directly impact on the short and long term health status of people with diabetes. In this online unit, there is a mandatory five day face-to-face clinical workshop component and a mandatory 40 hours of clinical practicum that will be undertaken by all students in this unit.

400830.3 Clinical Practice: Infant and Child Nutrition and Feeding

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 4682 Master of Child and Family Health (Karitane), 4683 Graduate Certificate in Child and Family Health (Karitane). Patient safety issues are associated.

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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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Students must 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

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

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.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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.

400839.2 Collaborative Inquiry for Primary Health Care Action

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course to undertake this unit.

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This unit provides the opportunity for students to apply the principles of primary health care in a proposal to address an issue of primary health care concern in their workplace or community. The student will gain comprehensive knowledge of the process of action research, participatory action research and cooperative inquiry. Each student will have the opportunity to write a proposal using a collaborative inquiry approach that involves planning a genuine partnership to examine and make changes to

improve an identified issue in the student's specific area of work / practice.

200432.4 Commercial Law

Credit Points 10 **Level** 7

Incompatible Units

200014 - Commercial Law

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course or in course 3748 Master of Information Governance. Other students wishing to take this unit as an elective need approval from the Academic Course Advisor. The online offerings for this unit are only available to students enrolled in the fully online courses 2793 Master of Financial Planning and 2795 Graduate Certificate in Financial Planning.

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In this unit, students learn about the concepts of law, its impact on businesses, and how to apply the law to solve practical legal problems that arise in business. The unit is designed to help you identify where potential legal issues or problems can arise in business. It deals with concepts of Australian law and commercial legal obligations that are of importance both to professional practice and to studies in later units. The unit topics are: Australian Legal Institutions and Sources of Law, Case Law and Doctrine of Precedent, Legislation and Statutory Interpretation, The Australian Federation and Concepts of Constitutional Law, Principles of Tortious Liability, the formation, vitiation, performance and discharge of contracts, forms of business structure, consumer transactions, consumer protection and agency.

400840.3 Communicable Diseases

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit will encompass clinical aspects, epidemiology, prevention and control of important communicable diseases, both in Australia, and globally. Specific topics covered include causative agents, routes of transmission, host responses, risk factors, environmental influences, vector- and food-borne diseases, vaccine-preventable diseases, legislative requirements, surveillance, outbreak investigations, bioterrorism, strategies for prevention and control and emerging challenges.

301186.1 Community and Public Health Nutrition

Credit Points 10 **Level** 7

Assumed Knowledge

Undergraduate knowledge of human nutrition, including nutrition science, life cycle nutrition, and the relationship between diet and disease.

Unit Enrolment Restrictions

Unit coordinator permission is required, to ensure that prospective students have completed sufficient undergraduate study (the equivalent of 30 credit points of

undergraduate study at Western) that focus on nutrition science, life cycle nutrition, and the relationship between diet and disease. This is essential, assumed knowledge for this unit, as the unit does not teach these topics.

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This unit examines the principles of public health nutrition and a systems approach, and enables students to use them to identify and analyse nutrition issues and outcomes. Students will learn about the food and nutrition system and its drivers, and examine their impact on current food, nutrition and nutrition-related health issues. They will explore public health nutrition priorities in Australia and 'at risk' groups such as Aboriginal and Torres Strait Islander peoples, culturally and linguistically diverse groups, and other vulnerable groups. They will learn to interrogate nutrition-related policies in relation to public health nutrition priorities and contemporary topics in Australia and similar contexts. Students will learn about the role of advocacy in promoting a sustainable and equitable food supply system, and improving food and nutrition outcomes for populations.

200433.5 Company Law

Credit Points 10 **Level** 7

Prerequisite

200432.4 Commercial Law

Equivalent Units

51227 - Company Law (PG)

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course or in course 3748 Master of Information Governance. Students wishing to take this unit as an elective need approval from the Academic Course Advisor.

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This unit mainly deals with legal issues concerning various aspects of companies: incorporation, regulation, membership and capital, company management, corporate officers, meetings, relations of the company with outsiders, accounts, reports and other disclosures, arrangements and reconstruction, receivers and winding up, and share acquisition and takeovers. It also considers public policy issues underlying the law in the above areas. Other forms of business organisation, such as partnership, trusts and sole traders, are also dealt with.

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

Unit Enrolment Restrictions

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.

Special Requirements - Essential Equipment

Students must have access to the internet and a computer.

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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.

200776.1 Compliance Management

Credit Points 10 **Level** 7

Equivalent Units

200224 - Management of Quality

Incompatible Units

200227 - Performance Measurement and Benchmarking;
H7072 - Risk Management

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit comprises three modules that focus on quality management, risk management, and performance measurement and benchmarking. The quality systems module explores quality management principles, systems, and frameworks, and the role that quality management plays in creating customer value, improving competitiveness and enhancing organisational effectiveness. The risk management module examines the important risks that need to be managed by businesses, especially in a global business setting, and introduces common frameworks that can be used to develop risk management strategies. The performance measurement and benchmarking module elaborates upon the evolution of performance measurement frameworks and introduces approaches that can be used by businesses to assess the status of their business processes and enhance performance through benchmarking. It will draw upon the concepts and theories covered in the quality and risk management modules. All three modules incorporate aspects related to economic, social and environmental responsibility. Students are required to study all three modules.

200826.1 Contemporary People Management

Credit Points 10 **Level** 7

Equivalent Units

46518 - Human Resource Management, 200718 - Human Resource Management

Unit Enrolment Restrictions

Students must be enrolled in a Business postgraduate course, 3698 Master of Information and Communications Technology (Advanced), 3699 Master of Information and Communications Technology, 3752 Master of Project Management or 1850 - Master of Education (Leadership and Management).

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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.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Students require access to a computer and the internet to be able to engage in the required activities on vUWS and submission of assignments.

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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

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate 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.

301131.1 Crime Scene Investigation (PG)

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge of general science as obtained via an undergraduate science degree (with completion of chemistry and biology units highly recommended)

Unit Enrolment Restrictions

Students must be enrolled in the Master of Forensic Science, the Graduate Diploma in Forensic Science, or the Graduate Certificate in Forensic Science.

Special Requirements - Essential Equipment

Students will require internet access via a laptop or desktop computer (the unit is delivered via a web browser)

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A substantial amount of forensic evidence used in the prosecution of criminal cases is initially established at the crime scene. Recognising, detecting, recovering, preserving and recording this evidence forms a critical function within forensic science and criminal investigation. This unit explores the main aspects of crime scene investigation, including: crime scene processes, recognition of evidence, documentation of crime scenes, evidence

detection and enhancement, maintaining evidence integrity, and bloodstain pattern analysis. It also covers professional practices associated with evidence handling and case file management.

401271.1 Critical Care: Skills and Practice

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled on Masters of Medicine (Rural Generalism)

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform vUWS at <https://vuws.westernsydney.edu.au/>

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This unit that will enhance the student's critical and practical clinical skills for rural generalist practice. The student will become familiar with common critical care presentations and develop a structured approach to the common practical skills of practice. They will also develop effective decision making skills that incorporate a team management approach. The development of these skills will be supported by a mandatory two day face to face practical simulation workshop.

401082.1 Cultural and Social Diversity in Health Care

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

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.

201022.1 Customer Experience

Credit Points 10 **Level** 7

Assumed Knowledge

An understanding of marketing theory and relevant principles is assumed.

Equivalent Units

200823 - Buyer Behaviour

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business program or 3749 - Master of Science.

Special Requirements - Essential Equipment

Prescribed text, stationery, access to computer, Internet and Library.

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Customer experiences occur when there is interaction between a company and their customers for the duration of their relationship. It comprises the customer journey, the consumer-brand 'touchpoints' and the environment in which these experiences happen. Increasing digitisation of the organisation-customer interface has resulted in a shift of buyer expectations where it is easier to compare market offerings and where communication is no longer a one way interaction. This unit considers the complexity of the technology driven relationship where customers become co-creators of their own personalized experiences and how companies can be part of this.

102424.1 Cyber Justice (PG)

Credit Points 10 **Level** 7

Assumed Knowledge

Previous study of cultural and social analysis, history and political thought, law, psychology or criminology would be useful, but is not required. Experience of using social media would also be useful but not required.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This subject explores the evolving relationship between digital technology, justice and crime. How are the temptations and risks associated with harmful or illicit behaviour being re-shaped by information and communication technologies, by social media and the computer networks that increasingly hold organisations together? Cyber crime is typically understood as use of information and communication technologies to assist in the commission of other crimes, actions that target computer networks or software, or new offences that could only exist with the technology. Cyber justice meanwhile emphasises the use of information and communication technologies to improve access to justice and the efficiency of justice procedures, not just to deal with cyber crime. How does the law keep up with the emergence of new crimes and technology-enhanced versions of old ones, and how do forensic investigators and analysts contribute to this process? The subject examines how justice processes and spaces, as well as criminal networks and strategies, are being reimagined to take advantage of the new technologies.

401228.1 Cytopathology and Small Biopsy Pathology 1

Credit Points 10 **Level** 7

Assumed Knowledge

A basic undergraduate level knowledge in Pathology and microscopy skills is expected, as the candidates will have a MBBS or equivalent pre-requisite degree.

Unit Enrolment Restrictions

Students must be enrolled in 4750 Masters of Medicine (Pathology). Students need to meet the legislative

requirements to be in a supervised specialist training role in Pathology, and hence be working clinically in a hospital/ laboratory setting.

Special Requirements - Essential Equipment

Computer with internet access for the online modules.

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This unit uses a blended learning approach to introduce diagnostic entities of non-gynaecological and gynaecological cytopathology, small biopsy pathology, and cardiorespiratory pathology. The unit provides training in basic research skills, communication skills, and critical thinking. The face-to-face component is a weeklong intensive teaching programme with lectures, practical microscopy classes, and question and answer sessions. The self-directed online learning module is composed of digitalized images and practical notes on the diagnostic approach to important pathological entities of the respiratory and cardiovascular systems.

401232.1 Cytopathology and Small Biopsy Pathology 2

Credit Points 10 **Level** 7

Assumed Knowledge

A basic undergraduate level knowledge in Pathology and microscopy skills is expected, as the candidates will have a MBBS or equivalent pre-requisite degree.

Unit Enrolment Restrictions

Students must be enrolled in 4750 Masters of Medicine (Pathology).

Special Requirements - Essential Equipment

Computer with internet access for the on-line modules.

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This unit uses a blended learning approach to provide advanced knowledge and skills in diagnostic entities of non-gynaecological and gynaecological cytopathology, small biopsy pathology and breast pathology. The unit provides training in basic research skills, communication skills, and critical thinking. The face-to-face component is a weeklong intensive teaching programme with lectures, practical microscopy classes and question and answer sessions. The self-directed online learning module is composed of digitalized images and practical notes on the diagnostic approach to important pathological entities of the breast.

401179.2 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.

Corequisite

401077.1 Introduction to Biostatistics

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Home computer or laptop or access to a machine on which software can be installed. (Necessary for assignments). Software required includes Git (free, open-source, multi-platform) and R (free, open-source, multi-platform).

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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

Unit Enrolment Restrictions

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.

101636.2 Developing Sustainable Places

Credit Points 10 **Level** 7

Equivalent Units

101345 - Land Use Strategy Design, 101311 - Urban Challenges: Developing Sustainable Places

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit provides an understanding of environmental, economic and social issues arising from the effects of urban development within city regions and examines the relationship between sustainable development and metropolitan planning in the Australian and global context. It focuses on the concepts related to sustainability, sustainable development and sustainable cities. It also looks into recent initiatives towards the realisation of sustainable cities.

101897.1 Development for Equality

Credit Points 10 **Level** 7

Prerequisite

101895.1 Political Economy of Development

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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The eight Millennium Development Goals (MDGs) were established in 2000 as a blueprint to meet the needs of the world's poorest and quickly became the dominant paradigm driving global development. The goals were targeted to be met by 2015 but no country has yet to approach success in achieving the goals. This unit critically examines the MDGs and in particular their impact on and engagement with women and other groups who remain the poorest and most vulnerable across the globe. Through this critique students will identify the structures, institutions and systems producing global inequalities; the significance of dominant development discourses in creating and continuing inequalities; and the intersections with social categories such as race, gender, sexuality, disability, class, religion and ethnicity. In order to demonstrate their understanding and critique, students will design a program for a specific disadvantaged group in a targeted region with a particular need to be met, such that the proposed program can sit within a suite of programs so as to ensure the ultimate aim of sustainable development.

401290.1 Diabetes in Paediatrics, Transition and Pregnancy

Credit Points 10 **Level** 7

Assumed Knowledge

Advanced knowledge in diabetes care and skills, Graduate Certificate in Diabetes

Unit Enrolment Restrictions

Must be enrolled in the a post graduate course with evidence of 12 month clinically relevant practice or substantial experience in working with people with diabetes.

Special Requirements - Essential Equipment

Computer with reliable internet access

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The physical and psychosocial developmental stage and age of the person with diabetes directly impacts on diabetes self-management, diabetes care and quality of life. This specialised unit will explore diabetes in the context of physical, psychological and social development with a focus on children, young adults and pregnant women. Ongoing family, therapeutic and social relationships are

central to optimising diabetes management. Family, friends, peers, healthcare providers/organisations role will be examined in the ongoing holistic care and self-management of diabetes and prevention of diabetes complications. Students will evaluate the physiological impact of diabetes, treatment and emerging technology in the management of diabetes such as insulin pump therapy and continuous blood glucose monitoring systems. Accessing and interpreting data for the overall management of diabetes will be undertaken in this unit.

401288.1 Diabetes in Primary Care

Credit Points 10 **Level** 7

Assumed Knowledge

Advanced knowledge in diabetes care and education

Unit Enrolment Restrictions

Must be enrolled in the a post graduate course with evidence of 12 month clinically relevant practice or substantial experience in working with people with diabetes.

Special Requirements - Essential Equipment

Students must have a computer and reliable internet access

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Most of the health care provided to people with diabetes is provided by general practice clinicians and multidisciplinary health care professionals in primary care. This unit will explore the core issues that arise in primary care relating to foundational aspects of care. The unit will comprise of Learning Pods/modules that enable students to choose and learn about areas of practice that are most relevant to their health discipline, context of care and gap in knowledge. There will be a compulsory Learning Pod/modules on primary prevention, secondary and tertiary prevention in primary care and the role of inter-professional integrated practice. Students will also be able to choose from the following diabetes related Learning Pods such as medication therapy, exercise therapy, nutrition therapy and podiatry, insulin pumps and continuous glucose monitoring sensors, cardiovascular and renal health, aged care in diabetes in primary care.

401289.1 Diabetes in the Hospital

Credit Points 10 **Level** 7

Assumed Knowledge

Advanced knowledge of diabetes pathophysiology and diabetes clinical care.

Unit Enrolment Restrictions

Must be enrolled in the a post graduate course with evidence of 12 month clinically relevant practice or substantial experience in working with people with diabetes.

Special Requirements - Essential Equipment

Students will need a computer and reliable internet access

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People with diabetes are more likely to be admitted to hospital, experience more complications, have longer length of stay and have higher mortality rates compare to people without diabetes. This unit will provide students with the skills and knowledge to optimise metabolic health in the complex care of i- patients with diabetes. The unit will

examine the prevalence and economic costs of people with diabetes in hospitals and review current pathological hypotheses on why poor glycaemic control is associated with poorer inpatient health outcomes. Best practice management in inpatient diabetes care, treatment targets and medication intensification for patient in critical, noncritical, peri-operative, end of life will be analysed Clinical governance in providing safe quality diabetes care and organisation response will be included in this unit. An online inter-professional case based approach to learning will be the mode of delivery.

401285.1 Diabetes Self-Management Support 1: Individuals

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Must be enrolled in the a post graduate course with evidence of 12 month clinically relevant practice or substantial experience in working with people with diabetes.

Special Requirements - Essential Equipment

Students will need a computer and reliable internet access

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Supporting individuals to self-manage their diabetes is the central element of advanced diabetes practice. Underpinned by the empowerment approach, students undertaking this unit will learn the necessary knowledge and skills in educating people with diabetes how to best manage their condition and support behaviours and emotional wellbeing that achieves person centred goals. Drawing on educational, psychological, social and behavioural theories students will learn practical skills in communication, psychological assessment and goal setting that will promote self-care for people with prediabetes and diabetes.

401287.1 Diabetes Self-Management Support II: Systems and Organisations

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Must be enrolled in a post graduate course.

Special Requirements - Essential Equipment

Students will need a computer and reliable internet access

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The increasing number of people with diabetes in Australia and globally is a major public health issue. This unit will explore the increasing burden of diabetes, why some groups of people are more at risk of developing diabetes then others, how society and the way health services are organised and delivered influence the risk of developing diabetes, access to quality health care and individual health outcomes. This subject will examine social determinants related to diabetes, the impact of diabetes on Indigenous Australians, diabetes public policy, workforce capability and the integrated nature of service delivery in reducing prevalence and improving health outcomes for people with diabetes and prediabetes.

301050.1 Disaster and Emergency Management (PG)

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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.

401079.2 Dissertation (Full Time)

Credit Points 40 **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.

Corequisite

For students enrolled in the 4698 Master of Health Science and 4702 Master of Public Health courses only: 401080 Research Protocol Design and Practice For all students: 401076 Introduction to Epidemiology 401077 Introduction to Biostatistics

Equivalent Units

The two units below are equivalent to each other: 401079 Dissertation (Full-time) 401282 Dissertation (Part-time)

Unit Enrolment Restrictions

To enrol in this unit, students must be enrolled in a post-graduate course and have a GPA of 5.5 or greater. If students are enrolled in the Master of Epidemiology, 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'. For students enrolled in the Master of Public Health or Master of Health Science they are also required to be enrolled in, or have completed 401080 Research Protocol Design and Practice. 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. Supervisor endorsement. Approval of the Dissertation Proposal must be provided by the Unit

Coordinator 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, within one semester of study, as a 40cp unit. 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). This unit can also be taken over two semesters (see 401282 Dissertation (Part-Time))

401282.1 Dissertation (Part Time)

Credit Points 40 **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.

Corequisite

For students enrolled in the 4698 Master of Health Science and 4702 Master of Public Health courses only: 401080 Research Protocol Design and Practice For all students: 401076 Introduction to Epidemiology, 401077 Introduction to Biostatistics

Equivalent Units

The two units below are equivalent to each other: 401079 Dissertation (Full-time) 401282 Dissertation (Part-time)

Unit Enrolment Restrictions

Students must be enrolled in a post graduate course and have a GPA of 5.5 or greater. If students are enrolled in the Master of Epidemiology, 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'. For students enrolled in the Master of Public Health or Master of Health Science they are also required to be enrolled in, or have completed 401080 Research Protocol Design and Practice. 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. Supervisor endorsement. Approval of the Dissertation Proposal must be provided by the Unit Coordinator 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, within two semesters of study. 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). 401282 Dissertation (Part time) is completed over two teaching sessions, thus students will need to enrol twice in this unit. This unit can also be taken over one semester (see 401079 Dissertation (Full Time)).

401273.1 Diversity in Generalist Practice

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled on Masters of Medicine (Rural Generalism)

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform vUWS at <https://vuws.westernsydney.edu.au/>

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This unit will explore the diversity of populations and examine the complexities of health and health care delivery in rural and remote settings in Australia. Students will develop a structured approach to managing the undifferentiated clinical presentations in a rural practice setting and will also analyse cultural, social, community, population and health factors influencing the practice of rural and remote medicine. Critical reasoning skills will be developed and students will be encouraged to self-reflect on their current clinical situation.

200828.1 Diversity, Labour Markets and Workforce Planning

Credit Points 10 **Level** 7

Equivalent Units

47021 - Work and Society, 200723 - Work, Society and Labour Markets, 200724 - Workforce Planning

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course or course 8083 Bachelor of Research.

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Demographic change, economic cycles and labour force participation patterns influence the manner in which HRM functions are conducted. This unit focuses on the way an organisation's external environment impacts on both strategic and workforce maintenance planning. The unit is designed to enable employment relations professionals and managers to plan for organisational sustainability, managing workforce-related risk, and growth. The emphasis on labour markets, workforce diversity and planning allows for accommodation of demographic changes, human capital shortages and economic cycles when planning for labour supply and labour demand requirements. While the aim is to identify gaps between the present and future human capital needs – and implementing solutions so the organisation can accomplish its mission, goals, and objectives – the difficulty of this systematic and proactive process increases with the

complexity of an organisation and the longer the time horizon used in the planning.

301139.1 Drug Biotransformation and Molecular Mechanisms of Toxicity

Credit Points 10 **Level** 7

Prerequisite

301135.1 General Toxicology

Unit Enrolment Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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This unit provides a strong conceptual foundation of enzymology and mechanisms of drug biotransformation pathways. As a foundation for learning we will provide examples of drugs and other xenobiotics that exhibit toxicity related to biotransformation. This unit is taught by the University of Florida as part of a collaborative venture between the University of Florida and Western Sydney University. Note: Further information on this unit is available from the University of Florida.

200425.4 Economics

Credit Points 10 **Level** 7

Equivalent Units

51265 Economics (PG)

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course or postgraduate Information and Communications Technology program.

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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.

800170.1 Ecosystems in a Changing World

Credit Points 10 **Level** 7

Assumed Knowledge

A Bachelor of Science in Biology, Environmental Science, or Agricultural Science, with some background in plant science and ecology.

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Natural and managed ecosystems on our planet are experiencing a rapidly changing environment as a consequence of changing patterns of land and resource use, loss of biodiversity, altered atmospheric composition and anthropogenic climate change. This unit will introduce students to ecosystem concepts in the context of ecological and evolutionary responses to global change. Students will obtain practical experience in quantitative analysis of carbon, nutrient, water and energy budgets, and explore the consequences of global change for ecosystem services and biodiversity over a range of spatial and temporal scales. Teaching will be led by HIE staff with expertise in ecosystem responses to environmental change, soil microbial contributions to ecosystem function and the impacts of environmental change on plants, animals and their interactions.

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)

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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.

102575.1 Emergency and Disaster Management

Credit Points 10 **Level** 7

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This unit uses comparative analysis of different emergency responses to humanitarian disasters to provide students with the skills and knowledge required to play a role in future emergency and disaster management. Students will gain knowledge of the geo-political forces and key international frameworks and standards that shape humanitarian responses, and of the motivations and approaches of aid donors and humanitarian NGOs when intervening in states. They will also gain foundational knowledge of assessment of NGO capacities and organisational infrastructure for managing emergencies, for example their organisational structures and cultures, donor priorities, support systems and personnel.

200459.3 Emergency Management for Bushfire Prone Areas

Credit Points 10 **Level** 7

Assumed Knowledge

Bushfire behaviour, planning, building and bushfire fighting units

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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.

800186.1 Emerging Technologies for Biological Science

Credit Points 10 **Level** 7

Assumed Knowledge

Students should have an undergraduate degree in Biology, Environmental Science, Medical Science, or Agricultural Science, with a background in biological sciences, including some knowledge of molecular biology, genetics, biochemistry and/or physiology.

Unit Enrolment Restrictions

Students must be enrolled in the Bachelor of Research Studies/ Master of Research.

Special Requirements - Essential Equipment

Outlines of lectures and additional reading will be placed on the vUWS site for the unit. Students will have an approved lab coat, safety glasses and closed footwear for the laboratory practical sessions. Students will have appropriate safety clothes/equipment or they will be excluded from the practical session and will be marked as absent. Students are to follow lecturers' and demonstrators' instructions during practical classes. Students are advised to ensure that they have been immunised against tetanus within the last 5 years.

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This unit serves to enhance the technological education and training for students undertaking research in biological, agricultural and medical sciences. The unit will teach current and emerging technologies utilised in biological investigations with a focus on model species of animals, plants, insects and microorganisms. The unit is structured around emerging technologies in research fields of: 1) whole organism physiology, 2) cell molecular biology and biochemistry, and 3) genomic and epigenomic processes encoded by the nucleus. Students will be exposed to a systems approach in order to investigate complex interactions with a view towards understanding the impacts

of the environment on biological interactions. Teaching will be undertaken by Western Sydney University-HIE staff who are world leaders in their respective research fields.

200717.2 Employment Relations Professional Practice

Credit Points 10 **Level** 7

Assumed Knowledge

Basic knowledge of human resource management objectives and functions from undergraduate study or work experience; it is recommended that students complete this unit in the same quarter as 200718 Human Resource Management.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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Employment Relations Professional Practice concentrates on communicating and performing as employment relations professionals. Students practice the activities undertaken by professionals, such as advocacy and presentation, team work, information and knowledge management, research, analysis and problem solving, and producing reports, policies and analytical essays, with opportunities for feedback. The focus is knowledge of the ER professions, such as the role, function and ethics of human resource managers, industrial officers and the role of professional bodies in Australia and internationally. Support for academic practice will accompany professional activities. The unit is designed for those wanting to build a career in employment relations.

401058.1 Endometriosis

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

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.

200850.1 Entrepreneurial Management Capabilities

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course or be enrolled in the Master of Information and Communications Technology (Advanced) or Master of Information and Communications Technology.

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Developing innovation and entrepreneurial capability is essential for small, medium and large businesses. This unit introduces students to practical and applied knowledge

supported by theory, concepts, frameworks for understanding and developing innovation and entrepreneurial thought, capability, infrastructure and platforms. Students will be exposed to leadership and approaches to the development of new products, services, processes and business models, with support from Western Sydney University's Launch Pad Technology Business Incubator.

401177.1 Environmental Epidemiology

Credit Points 10 **Level** 7

Prerequisite

401076.1 Introduction to Epidemiology

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate 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.

301152.1 Environmental Forensics 1

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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The unit is designed for professionals working in environmental regulatory authorities and laboratories at the federal, state or local level. This includes but is not limited to police jurisdictions, environmental protection agencies (EPAs), coastguards, park rangers, customs and quarantine officials. It is designed to give the environment law enforcement officer a background in the principles of contaminant analysis and transport in the environment with the ultimate aim of determining liability for pollution. The syllabus includes the main modes of contaminant transport in air, water and land, as well as an in-depth look at hydrocarbon fingerprinting. This unit is taught by the University of Canberra as part of a collaborative venture between the University of Canberra and Western Sydney University. Note: Further information on this unit is available from the University of Canberra.

301153.1 Environmental Forensics 2

Credit Points 10 **Level** 7

Prerequisite

301152.1 Environmental Forensics 1

Unit Enrolment Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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The unit is designed for professionals working in environmental regulatory authorities and laboratories at the federal, state or local level. This includes but is not limited to police jurisdictions, environmental protection agencies (EPAs), coastguards, park rangers, customs and quarantine officials. The unit consists of four case studies drawn from real-world scenarios. The skills and knowledge gained from Environmental Forensics 1 will be used to produce environmental forensic reports related to the case studies. The assessment is problem-based. This unit is taught by the University of Canberra as part of a collaborative venture between the University of Canberra and Western Sydney University. Note: Further information on this unit is available from the University of Canberra.

400417.2 Epidemiology and Quantitative Methods

Credit Points 10 **Level** 7

Equivalent Units

E7228 - Epidemiology and Quantitative Methods.

Unit Enrolment Restrictions

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

Corequisite

401076.1 Introduction to Epidemiology OR **401173.1** Introduction to Clinical Epidemiology

Unit Enrolment Restrictions

Students must be enrolled in a post graduate course.

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This unit will document the fundamental concepts in epidemiology and control of non-communicable diseases (NCDs), common research methods used in NCD epidemiology, and unique applications of these methods in key NCD areas, including reproductive epidemiology, behavioural epidemiology, epidemiology of ageing and epidemiology of specific NCDs (including cardiovascular

disease, diabetes, cancer, chronic respiratory diseases, musculoskeletal problems and mental health problems). The principal goals of this unit are to provide a broad overview of the field, and to develop the knowledge and skills needed to (i) critically evaluate published research in NCD epidemiology and (ii) design an epidemiological study to address an NCD topic.

401241.2 Essentials in Vascular Access

Credit Points 10 **Level** 7

Assumed Knowledge

Undergraduate level knowledge of human anatomy and physiology, especially the vascular system.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course and practising as a registered nurse, paramedic or medical officer in a health care setting (and show evidence) or currently practicing as a registered nurse, paramedic or medical officer in a health care setting (and show evidence).

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Vascular access devices (VADs) are utilised in health care settings across the world. Nurses, junior medical officers and paramedics are typically at the forefront of having to gain peripheral venous access. Many important aspects of vascular access are taught in isolation which are typically brief and provide surface learning rather than good theoretical understanding that underpin sound clinical skill and safe practice required for inserting and managing VADs. This unit focuses on developing knowledge, competency and skills to safely insert peripheral VADs and manage most acute and chronic devices through access to online material, facilitated simulated workshops and practical application in the workplace with a nominated clinical mentor approved by the school.

401092.1 Essentials of Best Practice in Midwifery

Credit Points 10 **Level** 7

Equivalent Units

400082 - Essentials of Best Practice in Midwifery

Unit Enrolment Restrictions

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.

Special Requirements - Essential Equipment

Students must have access to the internet and a computer.

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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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Access to a computer.

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This unit equips students to explore ethical issues impacting on the conduct of research in the health setting. Students will critically explore ethical issues and their implications in health research, understand the process of gaining Human Research Ethics Approval for research, gain practical experience of developing an ethically sound research plan and application for human ethics approval.

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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

Special Requirements - Essential Equipment

Access to the internet and computer.

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This unit is designed to develop students' knowledge of the principles and processes necessary for evidence-based clinical practice. General concepts associated with evidence-based 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

Unit Enrolment Restrictions

Students must be enrolled in 4716 - Master of Chinese Medicine, 4675 - Master of Health Science (Traditional

Chinese Medicine) or 4678 - Master of Health Science (Acupuncture)

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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.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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.

301156.1 Explosives

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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The unit provides information on the range of explosive compounds that may be encountered in incidents involving national security. It also covers improvised explosive devices, security screening applications, bomb scene management, and the forensic recovery and analysis of explosive residues. The unit concludes with case studies

designed to illustrate the concepts covered in the preceding modules. This unit is taught by the University of Canberra as part of a collaborative venture between the University of Canberra and Western Sydney University. Note: Further information on this unit is available from the University of Canberra.

301194.1 Financial Management of Projects

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in course 3752 Master of Project Management.

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Projects are always unique and their processes are always subject to elements of uncertainty and change. The skill of project management professionals in securing the best return for their organisation's efforts is thus held in great value. This unit is concerned with financial aspects of project management from both theoretical and practical perspectives. The aim is to explain how financial management tasks are carried out in the context of projects as well as stimulate students' reflection on best practice in project financial management.

200821.2 Financial Reports for Decision Making

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a Business postgraduate course, 3698 Master of Information and Communications Technology (Advanced), 3699 Master of Information and Communications Technology, 3752 Master of Project Management or 1850 - Master of Education (Leadership and Management).

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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.

101315.3 Financing Cities in the Global Economy

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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Financing infrastructure to keep cities running and growing at a time when governments face new financial constraints is a key challenge for urban managers. In order to be able to contribute to the debate about financing cities it is important for future urban managers to develop a basic financial literacy, understand and draw on the options for financing essential urban functions in Australia cities and

elsewhere, and assess the tensions involved in public and private financing pathways. This unit addresses these needs through both theoretical and practical approaches to the city as a set of flows within a wider urban network of relations. Students develop their understanding via interactive lectures, case studies, fieldwork exercises and assignments.

301132.1 Fingerprint Detection and Identification

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge of general science as obtained via an undergraduate science degree (with completion of chemistry and biology units highly recommended)

Unit Enrolment Restrictions

Students must be enrolled in the Master of Forensic Science, the Graduate Diploma in Forensic Science, or the Graduate Certificate in Forensic Science

Special Requirements - Essential Equipment

Students will require internet access via a laptop or desktop computer (the unit is delivered via a web browser)

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This unit aims to provide the student with a detailed understanding of the scientific methodologies applied to the detection, enhancement and identification of fingerprint evidence in a forensic context. The detection methods presented cover all of the current optical, physical and chemical techniques, as well as an insight into new approaches that are likely to have an impact over the next decade. The generally-accepted ACE-V methodology for fingerprint identification is discussed, together with the application of Bayesian statistics that has gained momentum as a preferred assessment method for this form of forensic evidence.

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)

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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)

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Calculator, PC or laptop.

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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)

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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.

301181.1 Food Evaluation

Credit Points 10 **Level** 7

Assumed Knowledge

Bachelor of Science majoring in science; such as biological sciences, chemistry, microbiology, nutrition, medical, forensic, animal science, zoology or pharmacology sciences.

Special Requirements - Essential Equipment

Laboratory Coat, enclosed shoes, safety goggles

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This unit aims to provide students with the knowledge and skills required to evaluate food quality and safety. Students are introduced to contemporary methods of analysis of foods as used for nutritional, quality and safety assessment. Practical work includes determination of major and minor food components; physical and functionality tests; sensory assessment and microbiological analysis of foods.

301180.1 Food Preservation and Packaging Technologies

Credit Points 10 **Level** 7

Assumed Knowledge

Bachelor of Science majoring in science; such as biological sciences, chemistry, microbiology, nutrition, medical, forensic, animal science, zoology or pharmacology sciences.

Special Requirements - Essential Equipment

Laboratory Coat, enclosed shoes, safety goggles.

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The objective of this unit is to provide students with an understanding of food preservation and food packaging technologies. Contemporary physical and chemical food preservation technologies will be examined, including chilling, freezing, thermal processing, fermentation, dehydration, chemical agents and novel non-thermal techniques. The chemical, physical, functional and nutritional properties of food commodities will also be examined, providing a scientific context for food quality, safety and nutrition. Students will study packaging materials science to be able to select the most appropriate packaging solutions for a range of food applications.

301183.1 Food Product Design

Credit Points 10 **Level** 7

Prerequisite

301180.1 Food Preservation and Packaging Technologies AND **301181.1** Food Evaluation

Corequisite

301182.1 Food Quality Management

Special Requirements - Essential Equipment

Laboratory Coat, enclosed shoes, safety goggles.

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This unit introduces students to theories and practices underpinning new product development, including idea generation, market research and product lifecycles. Students will apply emerging technologies, new ingredients and other innovative concepts relating to food preservation and food evaluation to research and develop new food products. Students will work on formulation design, assessment of ingredient and additive functions, effects of processing, optimization of quality and acceptability of foods. They will assess product packaging and storage stability, along with developing a food safety plan. They will also produce a final product specification and labelling requirements compliant with current food regulations.

301182.1 Food Quality Management

Credit Points 10 **Level** 7

Prerequisite

301180.1 Food Preservation and Packaging Technologies

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This unit introduces students to food quality management principles and their application in ensuring product quality

and safety. Students will learn to develop, evaluate and audit food safety programs based on Hazard Analysis and Critical Control Point and total quality management systems. Students will also examine statistical process control, food laws, regulations and codes at the state, national and international levels, as well as the application of scientific risk assessment to the development of food regulations.

301148.1 Forensic Analysis of DNA

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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This unit will introduce students to the identification and evaluation of biological evidence in criminal matters using DNA technologies, including the methods routinely used for the isolation of DNA from cells and techniques applied to DNA quantitation, electrophoretic separation, sequence determination, as well as data interpretation, analysis and reporting. This unit is taught by the University of Florida as part of a collaborative venture between the University of Florida and Western Sydney University. Note: Further information on this unit is available from the University of Florida.

301147.1 Forensic Anthropology (PG)

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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This unit will provide an introduction to the basic knowledge needed to perform some of the forensic anthropologist's tasks, especially anatomy and human osteology. Due to the impossibility of teaching a laboratory class, we will substitute the hands-on experience by a carefully selected set of pictures and material in order to familiarize you with the practice of the discipline. This unit is taught by the University of Florida as part of a collaborative venture between the University of Florida and Western Sydney University. Note: Further information on this unit is available from the University of Florida.

301144.1 Forensic Genetics

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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The unit is designed to introduce genetics so that even if you haven't studied it before you will develop an understanding that will inform your practice in work. The context of this unit is forensic science but rather than jump straight into forensic DNA analysis this is a foundation unit,

designed to give a framework of human molecular genetics. We will also look at some of the important issues in genetics including genome mapping and the role of gene dysfunction in disease. The first module is an overview and it is very important that you use the assignment time to check out some websites that will be very useful later on. This unit is taught by the University of Florida as part of a collaborative venture between the University of Florida and Western Sydney University. Note: Further information on this unit is available from the University of Florida.

301146.1 Forensic Immunology

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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This unit will introduce students to the principles of immunology, immunological techniques, and their application to forensic analyses. This unit is taught by the University of Florida as part of a collaborative venture between the University of Florida and Western Sydney University. Note: Further information on this unit is available from the University of Florida.

301133.1 Forensic Medicine I

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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This unit covers the basic elements of forensic medicine and focuses on the role of the forensic pathologist in the investigation of crime and death. Although much of forensic medicine, based as it is on observations made at a post-mortem examination, relies on the principles of morbid anatomy as discovered in earlier centuries, more recent techniques are also presented. This unit is taught by the University of Florida as part of a collaborative venture between the University of Florida and Western Sydney University. Note: Further information on this unit is available from the University of Florida.

301134.1 Forensic Medicine II

Credit Points 10 **Level** 7

Prerequisite

301133.1 Forensic Medicine I

Unit Enrolment Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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This unit gives knowledge and understanding of relevant medical concepts, techniques and methods in order that the candidate has sufficient competence to interpret human diseases, conditions and behavior in a forensic setting. An

understanding of the organizational structures involved in the practice of forensic medicine both locally and internationally, increase in the candidate's awareness of how forensic medicine relates to the wider context of society and how it contributes towards improving that society. This unit is taught by the University of Florida as part of a collaborative venture between the University of Florida and Western Sydney University. Note: Further information on this unit is available from the University of Florida.

301129.1 Forensic Research 1

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge of general science as obtained via an undergraduate science degree (with completion of chemistry and biology units highly recommended).

Unit Enrolment Restrictions

Students must be enrolled in the Master of Forensic Science, the Graduate Diploma in Forensic Science, or the Graduate Certificate in Forensic Science.

Special Requirements - Essential Equipment

Students will require internet access via a laptop or desktop computer (the unit is delivered via a web browser).

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This unit provides the basic framework and methodology required for planning and executing forensic research. The unit encompasses the scientific methods, practical tools and organizational skills important for implementing independent and original forensic research at an international level.

301130.1 Forensic Research 2

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge of research methodology as per the learning outcomes of the prerequisite unit

Prerequisite

301129.1 Forensic Research 1

Unit Enrolment Restrictions

Students must be enrolled in the Master of Forensic Science, the Graduate Diploma in Forensic Science, or the Graduate Certificate in Forensic Science

Special Requirements - Essential Equipment

Students will require internet access via a laptop or desktop computer (the unit is delivered via a web browser). Students will also require access to a webcam and Skype for the oral presentation.

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This unit builds on the knowledge gained in the prerequisite unit Forensic Research 1 and further develops skills to enable the independent and confident planning, design and execution of an original forensic research project chosen by the student. The skills and tools acquired in Forensic Research 1 will help facilitate effective communication of research project findings through scientific report writing

and presentation in formats appropriate for international journal publication and conferences.

301136.1 Forensic Toxicology I

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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This course has been developed to introduce students to the concepts, procedures, processes and terminology routinely encountered in the execution of applied forensic toxicological analyses. Our objective is to educate students in the theoretical aspects of drug and analytical chemistry applied to forensic toxicology. This unit is taught by the University of Florida as part of a collaborative venture between the University of Florida and Western Sydney University. Note: Further information on this unit is available from the University of Florida.

301137.1 Forensic Toxicology II

Credit Points 10 **Level** 7

Prerequisite

[301136.1](#) Forensic Toxicology I

Unit Enrolment Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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This unit will expand on concepts encountered in Forensic Toxicology I, providing in-depth knowledge of pharmacology and toxicology as it pertains to commonly encountered abused and toxic substances. This unit is unique in offering modules in doping control, expert testimony and human performance and postmortem toxicology. This unit is taught by the University of Florida as part of a collaborative venture between the University of Florida and Western Sydney University. Note: Further information on this unit is available from the University of Florida.

102300.1 Foundations of Media Arts Production (PG)

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit explores creative and independent media arts practices across moving image, audio and participatory forms, and introduces students to fundamental principles of long-form sound and screen production. The unit maps theoretical and practical connections between the creation and study of images and sound across media formats through an integrated theory/practice programme focused on the processes through which long-form media artefacts are created. Students learn how to analyse and critically evaluate screen media and also to plan and make simple

short works of their own. It introduces students to relevant media arts histories and contexts (with a focus on cinema) in addition to a range of technologies, media practices and production techniques.

301135.1 General Toxicology

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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This unit, which is primarily book-based, is structured to comprehensively provide the student with the fundamental concepts of toxicology as they relate to specific organ and tissue systems. We aim to supplement this information with online study guides, detailed module objectives and critical thinking exercises. The objective of this unit is to familiarize students with the procedures for using WWW resources for communication and educational purposes and to introduce students to the principles, concepts and terminology utilized in the field of toxicology. This unit is taught by the University of Florida as part of a collaborative venture between the University of Florida and Western Sydney University. Note: Further information on this unit is available from the University of Florida.

301118.1 Genomic Data Science

Credit Points 10 **Level** 7

Assumed Knowledge

1). Statistics: Basic understanding of core statistical concepts such as what is a variable in statistics, what is and how to make histograms and summaries of data, Gaussian vs Poisson distributions, how to plot using R; 2). Large scale data management: Basic programming skills (what is a variable in programming, "for" and "while" loops). How to view, manipulate and manage data using a Linux command line (e.g. familiarity with basic bash command line). The HIE course 'Data Analysis And Visualization With R' (http://www.westernsydney.edu.au/hie/opportunities/training_courses/data_analysis_r) will fulfil these requirements as will the year 1 MSc Data Science units

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Access to a Computer

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Successful data scientists work across multiple business domains, have the ability to rapidly grasp the basics and adapt to achieve the business intelligence outcomes. Further, it is imperative to showcase the thinking of experimental scientists such as forming testable hypotheses and identifying sources of errors. In this unit we delve into the domain of life sciences, learn how to design and conduct biological experiments and use our analytical skills to explore real data from our oral microbiomes.

102412.1 Global Digital Futures

Credit Points 10 **Level** 7

Equivalent Units

102299 - Text, Media and Memory

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate or a research course.

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This unit explores how innovation in the digital era is transforming society on a global scale. Reflecting on examples drawn from around the world, students learn about the latest trends in communication, media, computing and the knowledge economy. Current and future directions are surveyed in the context of contemporary issues such as big data, digital identity and privacy, social media and crowdsourcing, gaming and visualisation, geographical information systems, virtual environments and artificial intelligence.

200848.3 Governance, Ethics and Social Entrepreneurship

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business or Information and Communications Technology course or in course 1870 Master of Chinese Cultural Relations, 1871 Graduate Certificate in Chinese Cultural Relations or 1872 Graduate Diploma in Chinese Cultural Relations.

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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

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Access to a computer and the internet.

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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

Unit Enrolment Restrictions

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 health 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.

400843.3 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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This is a flexible learning unit looking at Human Resource Management 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.

102069.1 Heritage and Planning

Credit Points 10 **Level** 7

Equivalent Units

101588 - Introduction to Urban Design

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This unit explores the values behind, and practicalities regarding, heritage and planning, from federal and state perspectives in Australia. With a specific focus on Sydney, the unit explores how planning applications, within the urban development sphere, impact upon heritage assets, and how these impacts are mitigated through heritage

planning legislation. The unit asks students to step into the shoes of heritage planning professionals and to identify and research a heritage asset that is to be impacted by a potential planning proposal and then to design an appropriate mitigation response within the bounds of relevant heritage legislation.

301210.1 Human Physiology and Biomedical Technologies

Credit Points 10 **Level** 7

Assumed Knowledge

Computer skills; basic concepts of electronics i.e. amplifiers and filters; knowledge of signal theory

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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This unit aims to introduce a wide range of biomedical technologies and how they are used in medical practice. Topics will span from data acquisition technologies such as ECG, EEG, body plethysmography, to large imaging diagnostics such as CT scanner, PET scanner and bio-mechanical assisting devices often used for rehabilitation and support. The first part of this unit will include a module on human physiology and bio-mechanics. This module gives a basic understanding of the human body and introduces the scientific and medical terminology used for anatomy, physiology and biochemistry and bio-mechanics.

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

Unit Enrolment Restrictions

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 the Master of ICT and Master of ICT (Advanced) courses. Students must seek the approval of the Unit Coordinator for all placements before the commencement of the industry placement. Students will work in an external organisation in Australia or within a department/division within Western Sydney University carrying out tasks related to ICT. This provides students real-world experience in the ICT industry in Australia. Students can nominate an external organisation of their choice however the approval of the Unit Coordinator must be sought before the placement. 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

Unit Enrolment Restrictions

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. This will give the student a solid grounding in the Key Program of engineering which they have chosen to pursue.

200719.2 Industrial Relations and Workplace Change

Credit Points 10 **Level** 7

Equivalent Units

46525 - The Industrial Relations Process.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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Industrial Relations and Workplace Change is designed to equip current and future employment relations professionals and practitioners with the knowledge necessary to analyse and implement the processes for workplace change and workplace-level bargaining. The understanding of workplace change covered in this unit includes an emphasis on rights, obligations and "voice". The unit focuses on workplace change problem solving for employee engagement and dispute resolution in both local and global workplace change contexts.

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.

200958.3 Information and Data Governance Law and Policy

Credit Points 10 **Level** 7

Prerequisite

Students in course 3748 - Master of Information Governance must have successfully completed unit 200432 - Commercial Law before enrolling in this unit.

Unit Enrolment Restrictions

Students must be enrolled in course 2810 Master of Laws (International Governance), 2784 Master of Laws (International Governance), 3748 Master of Information Governance, 8083 Bachelor of Research Studies, 8084 Master of Research - HC or 8085 Master of Research - LC.

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This unit focuses on the right to privacy and examines the legal framework for information privacy protection and data governance that are established by both international and domestic law and regulation. This unit introduces students to the theoretical approaches to information privacy and data governance law and policy. In particular, the unit focuses on the European Union Directives and Regulation; the OECD Guidelines for the Protection of Privacy and Trans Border Flows of Personal data and the impact of international laws and regulation on information privacy and data governance regulation and policy in Australia. The unit explores some of the challenges in providing effective information privacy protection and data governance in cyberspace as existing laws adapt to new and advanced information technological developments and their use.

301162.1 Information Security Management

Credit Points 10 **Level** 7

Assumed Knowledge

Basic knowledge of computer system, computer security and basic programming skills.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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Cyber Crime costs are increasing at an alarming speed. Security management skills are now essential for IT management. This unit provides the knowledge, skills, techniques and mechanisms on information security management for postgraduate students. It covers topics on management aspects of information security such as business and Cybercrime, security awareness, security risks, security fundamentals, risk assessment and security system design, planning and regulatory issues for information system security.

200851.1 Innovation for New Markets

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course or be enrolled in the Master of Information and Communications Technology (Advanced) or Master of Information and Communications Technology or Master of Science.

Special Requirements - Essential Equipment

Prescribed text, stationery, access to computer, Internet and Library.

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Entrepreneurship, innovation and new markets are pertinent activities that have collectively become cornerstones of how firms grow and interact with society. This unit introduces students to issues, principles and frameworks associated with exploring opportunities and challenges that relate to these three activities. Emerging and new markets are examples of markets that represent opportunities and challenges for innovation and entrepreneurial activities. Through selected readings that emphasise key themes and issues, students will be exposed to an understanding of what constitutes entrepreneurship, innovation, new markets and market development, how they are influenced by the ever-changing business environment, an examination of opportunities that emerge as a result of changing technology and consumer expectations taking place in emerging and new markets. Emerging markets have become a key source of innovation in products, services and business processes which calls for an examination as to whether these can be extended to developed markets. The unit provides students with an opportunity for continuous practical experiential learning through collaboration with industry Launch Pad partners.

200845.2 Innovation Through Digital Technology

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course or be enrolled in the Master of Information and Communications Technology (Advanced), Master of Information and Communications Technology, Master of Chinese Cultural Relations, Graduate Certificate in Chinese Cultural Relations, Graduate Diploma in Chinese Cultural Relations or Master of Research.

Special Requirements - Essential Equipment

Prescribed text, stationery, access to computer, Internet and Library.

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Business innovation in the Digital Economy recognises that current economic development and leadership is based on digitisation of the global economy. This unit provides a framework for understanding management issues, business development and technology use and change in the areas of innovation and digital business. The unit introduces students to various digital technologies and applications that companies need to address for creating new business opportunities in the fast changing global business environment. Students will develop an appreciation of digital business as a form of organisational innovation and the importance of innovation in the digital economy. Students will learn to formulate a digital business strategy for an organisation and understand various issues involved in digital business innovation. Students will be exposed to the University's business and technology incubator environment.

200792.2 Innovation, Creativity and Entrepreneurship

Credit Points 10 **Level** 7

Equivalent Units

51277 - Innovation and Entrepreneurship

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The aim of this unit is to provide students with the necessary skills to understand, execute and manage entrepreneurial innovation processes in firms/organisations, and be more prepared to succeed within an increasingly complex, global and highly competitive entrepreneurial environment. Firms/organisations of various sizes, including small and medium enterprises (SMEs) that are innovative and entrepreneurial provide vision, nurture creativity and idea management as part of their everyday activities and in seeking long-term sustainability.

200852.2 Innovation, Creativity and Foresight

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course or be enrolled in the Master of Information and Communications Technology (Advanced), Master of Information and Communications Technology, Master of Research or or Master of Science – Food Science Specialisation.

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Creativity is a systematic, logical process mixing imaginative and creative thinking. Ideation is a process for forming and relating ideas derived through creativity. Innovation seeks to take ideas through invention and entrepreneurial processes to create new economic and social value. Students will be exposed to a variety of brainstorming, creativity and foresight methods and tools, with emphasis on scenario planning methods. Students will be introduced to workshop development, moderation and management approaches and methods. Selected key themes on economic, social, technological, and sustainable development for Australia over the next 10-30 years will be analysed and developed through a scenario planning workshop process, with outputs mapped to business and social innovation and entrepreneurship thinking, and platforms. Students will also be exposed to creativity and foresight methods used by the Western Sydney University Launch Pad Business Technology Incubator.

300515.4 Instrumentation and Measurement (PG)

Credit Points 10 **Level** 7

Assumed Knowledge

Assumed knowledge for 300515 Instrumentation and Measurement (PG) is: 1) Basic electronics including amplifier, circuit theory and circuit design; 2) A basic understanding of statistics. Computational skills (SPICE) and a basic understanding of circuit simulation are desirable.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit covers 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 analogue and digital circuits used to amplify, transmit, and display electrical signals. The application of these modules in modern measurement equipment is presented in details.

301240.1 Integrated Building Technology

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 3761 Master of Architecture (Urban Transformation)

Special Requirements - Essential Equipment

Laptop with required software, per course 3761 requirements.

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Integrated Building Technology is a core architecture seminar in the Master of Architecture (Urban Transformation) course that will introduce students to the range of specialist consultants that constitute an overall design team including structural and civil engineering, mechanical, electrical, communications, and transport systems, fire safety and egress, and environmental systems (acoustics, lighting, thermal) that are required to realise medium to large scale projects in practice. The unit will focus upon the principles and concepts of each discipline to provide sufficient depth of knowledge and understanding that the architect can meaningfully engage and collaborate with the allied specialists. Understanding how to communicate and document the integration and coordination of systems in a building will be developed through exposure to case studies, specialist presentations, and field trips. Students will apply concepts introduced in the unit to the design studio project they are concurrently developing in unit 301238 Practice Research Studio 2 and demonstrate their understanding of system integration through graphic representation techniques and a design report.

301175.1 Internet of Things

Credit Points 10 **Level** 7

Assumed Knowledge

Students should be familiar with the fundamentals of computer networking. In particular, they should have a good understanding of the TCP/IP protocol suite, and current networking and wireless technologies. Therefore, it is strongly advisable that the students must have either taken an appropriate unit in computer networking (e.g., 300695 Network Technologies), or have equivalent knowledge.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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The Internet of Things (IoT) is drastically changing the way organisations operate and how individuals interact with the world. IoT is an infrastructure consisting of fairly constantly

communicating objects, or things, that may be smart and process or act on data. The IoT facilitates detailed and meaningful interactions between humans, digital devices, and many other industrial and household equipment, appliances, and things. The IoT is also the enabler of smart environments, including smart homes, buildings, cities, transport, and healthcare, among many others. This unit discusses IoT technologies and applications in detail. It also introduces the students to trends, challenges, and key research topics in relevant areas.

800176.2 Internship and Community Engagement (PG)

Credit Points 10 **Level** 7

Prerequisite

800166.1 Research Design 1: Theories of Enquiry

Unit Enrolment Restrictions

Students must be enrolled in 8083 Bachelor of Research Studies/Master of Research, 8084 Master of Research (High Cost) or 8085 Master of Research (Low Cost). Students must have organised and confirmed their own internship or work placement before enrolling in the unit.

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The aim of this unit is to provide Master of Research students with an opportunity to develop professional identity through exposure to workplaces, community settings or research processes related to their chosen field of study. Students will need to apply the knowledge and skills that they have developed to this internship or engagement activity. This is a cross-disciplinary unit that will employ experiential learning to achieve the learning outcomes. This placement will be chosen by the student in consultation with staff of Graduate Research School and will be undertaken either as an individual or part of a project team.

301103.1 Interpreting Building Regulations (Residential Buildings)

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be 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.

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The basis of this unit is to ensure students become accustomed to reading and interpreting laws that specifically relate to building legislation. The unit provides students with an introduction to and sound working knowledge of the prescriptive provisions of the National Construction Code (BCA) Volume 1 & 2, associated Standards, codes and statutory interpretation as it applies to residential buildings. This unit will develop a sound knowledge of the National Construction Code (BCA) – Volume 2 and a introduction to rise in story's, types of construction and the fire requirement for building elements in the National Construction Code (BCA) Vol. 1, 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 National Construction Code (BCA) criteria, limitations of the referenced documents (National Construction Code (BCA) – Volume 2) and strategies for compliance. Students will need to relate the objectives of the National Construction Code (BCA) and the purpose of its respective provisions in relation to construction of residential buildings and the evaluation of associated documentation.

401077.1 Introduction to Biostatistics

Credit Points 10 **Level** 7

Assumed Knowledge

High school mathematics (arithmetic, formulas and algebra, reading graphs)

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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.

300260.2 IT Project Management

Credit Points 10 **Level** 7

Assumed Knowledge

Understanding of systems analysis and design principles.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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 IT project. The unit covers preparing and presenting project proposals in various ICT areas, project management, time management, communication skills, and the evolving legal, ethical, and social responsibilities of IT professionals. Students will work in teams under the supervision of a staff member, to plan and investigate their project.

800199.1 Knowledge Translation

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

All students must be enrolled in a PhD course code in order to enrol in this unit.

Knowledge translation looks at how knowledge created through research can be applied in real world contexts. It takes research from the theoretical stage (i.e. "that's interesting, but so what?") to the applied stage where it can be used to create real impact. In this unit, we explore the two main processes of knowledge translation – communication and implementation. This is a highly collaborative unit where the interdisciplinary group meets to engage in general theoretical discussion and practice various knowledge translation activities based on our various fields of research.

401060.1 Laparoscopic Adnexal Surgery

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

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 Master of 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

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

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.

Unit Enrolment Restrictions

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.

400777.4 Leadership for Quality and Safety in Health Care

Credit Points 10 **Level** 7

Prerequisite

400220.2 Contemporary Professional Practice in Mental Health Nursing AND **401168.1** Evidence Based Health Care AND **400235.2** Leadership in Clinical Practice

Equivalent Units

400842 - Quality and Safety in Health Care

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Access to the internet and a computer.

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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.

100701.1 Leadership, Mentoring and Professional Growth

Credit Points 10 **Level** 7

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Becoming a professional is a complex and intricate process. Beyond adequate initial training (both theoretical and the implementation of theory into practice) it takes a commitment and undertaking to career-long learning and professional development. Such commitment and undertaking need not be an isolated process. Educational leaders are available to assist in the promotion of professional development. This unit provides leaders with the understandings and strategies for implementing mentoring and professional development programs.

101633.2 Managing Cities: History and Theory

Credit Points 10 **Level** 7

Equivalent Units

101310 - Metropolitan Structures: Cities in Transformation

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This unit concerns philosophical thought and critical thinking in public planning. It develops an understanding of planning theories and examines past and present trends in this area. It reviews the theoretical frameworks for an insight into planning processes and analyses the economic, spatial and socio-political dimensions of activities involved.

200835.2 Managing in the Global Context

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course or in course 3748 Master of Information Governance, 1870 Master of Chinese Cultural Relations, 1871 Graduate Certificate in Chinese Cultural Relations (Exit only) or 1872 Graduate Diploma in Chinese Relations (Exit only).

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Managing in the Global Context provides students with an understanding of the complexities of managing in the changing economic, political, legal, technological and within socio cultural factors that influence global business operations. By addressing areas of understanding the global business environment, managing political risk and government relations, understanding culture, cross cultural communication and negotiation, strategy and structures for global organisations, motivating and leading, business ethics and corporate responsibility and competencies for global managers this Unit provides an organisational behaviour approach to managing in a dynamic global context. Through critical analysis of contemporary media, research and case studies this Unit provides a basis for linking management practice to theoretical knowledge.

301187.1 Managing Project Teams and Stakeholders

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit is designed to provide students with essential behavioural knowledge areas for project management. Since project management occurs in a team setting, project managers need to master team leadership by understanding team dynamics and behaviour in different team settings, which is a main focus area in this unit. Students will also learn effective ways to identify and engage project stakeholders and communication concepts and tools that effectively influence stakeholders.

301187.2 Managing Project Teams and Stakeholders

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in course 3752 Master of Project Management.

.....

This unit is designed to provide students with essential behavioural knowledge areas for project management. Since project management occurs in a team setting, project managers need to master team leadership by understanding team dynamics and behaviour in different team settings, which is a main focus area in this unit. Students will also learn effective ways to identify and

engage project stakeholders and communication concepts and tools that effectively influence stakeholders.

200737.3 Marketing Systems

Credit Points 10 **Level** 7

Equivalent Units

51002 - Marketing Management

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course or one of the following courses - 3689 Master of Information Technology (Advanced), 3699 Master of Information Technology, 3749 Master of Science.

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This unit studies the marketing process from a holistic viewpoint, considering the intersection of the economy, the government, and the community. This perspective will help students to analyse and understand the interrelated and interdependent parts that comprise a marketing system. Specifically, this unit examines: consumer behaviour, market regulation, social responsibility and sustainability. Students will learn to consider the marketing process and its consequences at both an aggregate and micro level. This unit exposes students to the systematic and analytical approaches expected from them in postgraduate studies in marketing.

300597.4 Master Project 1

Credit Points 10 **Level** 7

Assumed Knowledge

(1) Knowledge in one of the fields in engineering, construction, information technology, data science or a related discipline; (2) Knowledge in research methodology; and (3) Skills in literature review.

Equivalent Units

300189 - Master of Engineering Specialist Reading, 200327 - Built Environment Project, 200328 - Built Environment Research Project

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course. Please note: Students enrolled in 3693 Master of Engineering MUST select the campus offering, NOT the online mode.

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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.

300598.5 Master Project 2

Credit Points 10 **Level** 7

Assumed Knowledge

(1) Knowledge in one of the fields in engineering, construction, information technology, data science or a

related discipline; (2) Knowledge in research methodology; and (3) Skills in literature review and oral presentation.

Corequisite

300597.3 Master Project 1

Equivalent Units

300188 - Master of Engineering Project, 200328 - Built environment Research Project

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course. Please note: Students enrolled in 3693 Master of Engineering MUST select the campus offering, NOT the online mode.

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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 fulfil 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.

Unit Enrolment Restrictions

Students must be enrolled in the Master of Engineering, Graduate Certificate in Engineering or Bachelor of Research Studies / Master of Research.

Special Requirements - 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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

Special Requirements - Essential Equipment

vUWS site SCEM Computer Lab SolidWorks MS Office Suite ANSYS MDSIGN

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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.

101423.3 Media Project Proposal

Credit Points 20 **Level** 7

Assumed Knowledge

Broad understanding of convergent media forms and processes.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit offers each student the opportunity to develop a detailed convergent media project proposal to the proof of concept/pilot stage in response to a chosen brief. Projects may be for television, online delivery or cross platform delivery. The project proposal will cover background research, precedent research and case studies, experience specification/treatment, production issues and pitch to industry professionals. The objective is to provide a detailed specification for the Media Project Production unit that follows.

301140.1 Medicinal Chemistry of Drugs of Abuse

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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This unit will address the fundamental concepts and principles involved in the examination of biological evidence and the practices of serology as they relate to crime scene and forensic investigation. This unit is taught by the

University of Florida as part of a collaborative venture between the University of Florida and Western Sydney University. Note: Further information on this unit is available from the University of Florida.

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

Unit Enrolment Restrictions

Students must be enrolled in 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.

401252.1 Mental Health Aspects of Allergic Diseases

Credit Points 10 **Level** 7

Assumed Knowledge

A completed medical degree (MBBS, MBChB or equivalent qualification) is required and current practice as a clinician is desirable to successfully undertake this unit.

Prerequisite

401249.1 Allergic Sciences 1 AND **401250.1** Allergic Sciences 2 OR **401063.1** Allergic Sciences

Corequisite

401064.2 Clinical Allergy

Unit Enrolment Restrictions

Students must be enrolled in Master of Medicine (Allergic Diseases). Students must be medical practitioners registered with AHPRA or the New Zealand Medical Board.

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform vUWS at <https://vuws.westernsydney.edu.au/>

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Allergic diseases are chronic conditions which can influence psychosocial wellbeing. Early recognition of effects on mental health is essential to ensure optimal support and enhance quality of life. This unit provides students with knowledge and skills to address mental health concerns in

patients with allergic diseases. Modules will cover the psychological effects of living with chronic disease, anxiety and depression, somatic symptom disorders and eating disorders. Students will use online lectures, case discussion and evidence-based materials to explore key elements and strategies for effective mental health assessment and management in clinical allergy practice.

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.

Unit Enrolment Restrictions

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.

Unit Enrolment Restrictions

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.

Unit Enrolment Restrictions

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.

Unit Enrolment Restrictions

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.

Special Requirements - Essential Equipment

Access to a computer and the internet is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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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

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

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.

Special Requirements - Essential Equipment

Students must have access to the internet and a computer.

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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

Unit Enrolment Restrictions

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.

Special Requirements - Essential Equipment

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

Unit Enrolment Restrictions

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.

Special Requirements - Essential Equipment

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

Unit Enrolment Restrictions

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.

Special Requirements - Essential Equipment

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 seven midwife standards for practice.

301043.2 Mobile Computing

Credit Points 10 **Level** 7

Prerequisite

Students enrolled in 2761 Master of Business Administration, Information and Communication Technology specialisation, must have successfully completed 301038 Programming Proficiency and 300977 Systems Analysis and Database Management Systems. Students enrolled in all other courses must have successfully completed 300693 Web Technologies.

Unit Enrolment Restrictions

Students must have completed 40 credit points.

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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.

101743.2 Mobile Media

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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The proliferation of the mobile device and the evolution of mobile networks has profoundly changed the social and

interpersonal sphere and the global media landscape. This unit combines both theory and practice to engage with Mobile Communications and Society: the cultural, family and interpersonal consequences of mobile communication and its effect on every day life, social cohesion, political and economic activities, social development and change, and Mobile Media: current media production and distribution platforms, practices and trends. This unit includes the production of content for distribution via mobile devices.

301163.1 Modern Software Architectures

Credit Points 10 **Level** 7

Assumed Knowledge

Student must know how to write Objected-Oriented code.

Equivalent Units

300437 XML and Web Services, 301041 Service Oriented Architecture

Unit Enrolment Restrictions

Students must be enrolled in Postgraduate courses at Western Sydney University.

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Enterprise software architecture comprises a decomposed view of a software system in layers and components that interact and manipulate data to achieve business objectives. Enterprise in this context includes small, medium and large organizations operating in diverse sectors (private, NGO, government). Several architectural patterns have emerged to enable responsive, efficient, secure, and reliable enterprise software. This unit provides a deep understanding of these architectural patterns, examining the motivation, strengths, and limitations of different choices. To demonstrate the broader application of the concepts introduced in the unit, a practical case study is deeply examined.

301066.1 Multilayer Switching

Credit Points 20 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in the online course Master of Advanced Networking or any other postgraduate Western Sydney University program where this unit can be taken as an unspecified elective and where there are sufficient credit points available in the study program.

Special Requirements - Essential Equipment

Access to the internet and appropriate hardware and software for online study.

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As a Cisco Academy, Western Sydney University 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.

Unit Enrolment Restrictions

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.

401134.2 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

Unit Enrolment Restrictions

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 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.

301141.1 Natural Medicinal Products

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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This unit has been developed to introduce students to the procedures and processes associated with the production, isolation, characterization and use of medicinal drugs of plant origin. This unit is taught by the University of Florida as part of a collaborative venture between the University of Florida and Western Sydney University. Note: Further information on this unit is available from the University of Florida.

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

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

Students must be enrolled in the online course Master of Advanced Networking or any other postgraduate Western Sydney University program where this unit can be taken as an unspecified elective and where there are sufficient credit points available in the study program.

Special Requirements - Essential Equipment

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. Western Sydney University 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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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Computer networking is one of the fastest growing technologies of our time. The Internet interconnects billions 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 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 models, protocols and standards in networking and internetworking.

200849.1 New Venture Finance

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course or be enrolled in the Master of Information and Communications Technology (Advanced), Master of Information and Communications Technology or Master of Research.

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New Venture Finance introduces students to essential theories, frameworks, principles and requirements for understanding and seeking funding for new ventures, with a focus on investor philosophy. A dynamic approach to seeking initial and subsequent funding for developing innovations and entrepreneurship is emphasised in this unit, recognizing that most new ventures are not fully funded as they launch. The unit also explores approaches related to new ventures at the stage at which they are maturing into defined businesses. Students will be introduced to commercialisation and strategies for the development of business plans designed to seek funding and support.

301185.1 Nutrition Promotion

Credit Points 10 **Level** 7

Assumed Knowledge

Undergraduate knowledge of human nutrition, including nutrition science, life cycle nutrition, and the relationship between diet and disease.

Unit Enrolment Restrictions

Unit coordinator permission is required, to ensure that prospective students have completed sufficient undergraduate study (the equivalent of 30 credit points of undergraduate study at Western) that focus on nutrition science, life cycle nutrition, and the relationship between diet and disease. This is essential, assumed knowledge for this unit, as the unit does not teach these topics.

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This unit aims to introduce students to the principles and practices of nutrition and health promotion, for use in primary and secondary prevention. Students will learn and critically appraise all aspects of the program planning cycle, from needs assessment to evaluation. Students will develop their capabilities to design initiatives that are responsive to, and contribute to, the community and public health nutrition evidence base. Students will acquire knowledge related to communication, food and social marketing, nutrition education, and nutrition and behaviour change theories; and learn how to translate this into effective nutrition promotion initiatives that aim to influence food choice, intake, supply and/or access. Lastly, students will learn to work in, and/or manage, multi-disciplinary teams and work with key stakeholders. Negotiation and influencing skills, together with capacity building skills, to guide and upskill individuals and groups, will be developed for the purpose of improving the nutritional status of groups.

401251.1 Nutritional Aspects of Allergic Diseases

Credit Points 10 **Level** 7

Assumed Knowledge

A completed medical degree (MBBS, MBChB or equivalent qualification) is required and current practice as a clinician is desirable to successfully undertake this unit.

Prerequisite

401249.1 Allergic Sciences 1 AND **401250.1** Allergic Sciences 2 OR **401063.1** Allergic Sciences

Corequisite

401064.2 Clinical Allergy

Unit Enrolment Restrictions

Students must be enrolled in Master of Medicine (Allergic Diseases). Students must be medical practitioners registered with AHPRA or the New Zealand Medical Board.

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform vUWS at <https://vuws.westernsydney.edu.au/>

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Dietary and nutritional aspects of allergic diseases often need consideration in patient management. This unit provides students with a detailed understanding of nutritional fundamentals and requirements especially for children and adults with food allergy. Online learning materials and case discussion facilitated by an experienced dietitian will promote essential knowledge and practical skills. Modules will provide the latest evidence on nutritional basics, weight management, diagnosis and management of food allergies and intolerances, food labelling, and early infant feeding recommendations. This content will complement the clinical experiences in the Master of Medicine (Allergic Diseases) and enhance clinical allergy practice.

301184.1 Nutritional Assessment Methods

Credit Points 10 **Level** 7

Assumed Knowledge

Undergraduate knowledge of human nutrition, including nutrition science, life cycle nutrition, and the relationship between diet and disease.

Unit Enrolment Restrictions

Unit coordinator permission is required, to ensure that prospective students have completed sufficient undergraduate study (the equivalent of 30 credit points of undergraduate study at Western) that focus on nutrition science, life cycle nutrition, and the relationship between diet and disease. This is essential, assumed knowledge for this unit, as the unit does not teach these topics.

Special Requirements - Essential Equipment

Laboratory Coat, enclosed shoes, safety goggles.

.....

This unit aims to introduce students to methodologies that incorporate anthropometric, biochemical, clinical, dietary and physical activity assessment to assess the nutritional status of individuals and groups. Students will critically explore the strengths and limitations of various methods. Students will also learn to make professional judgement regarding when and how to use methods, including validating nutritional status assessment methods to achieve valid and reliable nutritional assessment outcomes.

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

Unit Enrolment Restrictions

Field visits may limit the numbers in any particular activity for WHS reasons. Students will need appropriate PPE such as safety shoes, laboratory coats and safety glasses.

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

Assumed Knowledge

Recognition that WH&S procedures are legislatively required in the workplace and the ability to recognise the need to protect workers from harm in the workplace. Knowledge of the basics of WH&S Legislation as it applies in their country of origin.

Equivalent Units

EH831A - Occupational Health Management

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

Students must be enrolled in the online course Master of Advanced Networking or any other postgraduate Western Sydney University program where this unit can be taken as an unspecified elective and where there are sufficient credit points available in the study program.

Special Requirements - Essential Equipment

Students must have access to the internet and appropriate hardware and software for online study.

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As a Cisco Academy, Western Sydney University 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

Unit Enrolment Restrictions

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.

401081.2 Organisational Governance and Performance Management

Credit Points 10 **Level** 7

Assumed Knowledge

General Knowledge of Australian Healthcare System

Unit Enrolment Restrictions

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

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information

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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. Participants 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. Students will participate in 5 interactive webinars to embed the fundamental concepts and skills associated with the model. 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

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

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.

Unit Enrolment Restrictions

Students must be enrolled in 4682 Master of Child and Family Health (Karitane) or 4713 Master of Child and Family Health (Karitane).

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This unit enables students to explore the complex issues related to perinatal 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 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.

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

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.

301143.1 Pharmaceutical Analysis

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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This unit focuses on the characterisation and the structural proof of drug compounds routinely encountered in Forensic and Pharmaceutical laboratories. This unit is taught by the University of Florida as part of a collaborative venture between the University of Florida and Western Sydney University. Note: Further information on this unit is available from the University of Florida.

300708.4 Planning and Development Control

Credit Points 10 **Level** 7

Equivalent Units

101634 - Planning and Environmental Regulation

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit describes the general planning issues relevant to developments in rural and urban areas. The content covers the factors important in determining the allocation and use of land and resources together with the contributions of development to the built and natural environment. Topics include: urban and rural design issues; the impact of the 3 tiers of Government process on development control, and the legal, political and technical issues relevant to impact assessments. Particular attention will be paid to the role of the private sector in developing controls, self-regulation and appeal processes. Planning in both the micro and macro environments is examined in the context of sustainability, indigenous culture and heritage, private land conservation, 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

Equivalent Units

300708 - Planning and Development Control

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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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

Prerequisite

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.

Equivalent Units

HC815A - Policy, Power and Politics in Health Care Provision

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Computer and internet access

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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.

101895.1 Political Economy of Development

Credit Points 10 **Level** 7

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The unit introduces students to the main theories and the diverse political economy dimensions of development. It consists of three modules. The first deals with key concepts that interrogate the meaning of development, origins of prosperity and the concepts of poverty, inequality and redistribution, which are contentious in their applications to various groups. The second module examines core issues in the political economy of development, which include globalisation, foreign aid, democracy, conflict and the role of the state. The last module engages with pertinent case studies focusing on Asia, the Pacific as well as problems with development in the Western world.

400995.2 Port Entry

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

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

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform.

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This unit introduces students to the practice of cardiac sonography. Students learn how to acquire and optimise images and to make basic measurements. They will learn how to draw conclusions from the images and measurements, and to write a basic report. The skills learnt in this unit, which includes work integrated learning, provides students with the foundational skills in cardiac sonography.

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

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform.

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This unit will build on the knowledge and skills developed in Practice of Cardiac Sonography 1. Students will learn to perform a more extensive echocardiographic examination as they study measuring left ventricular systolic and diastolic function, and are introduced to assessing valvular function. Image interpretation, report writing, and essential aspects of professional practice will also be included in this unit.

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

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform.

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This unit aims to further develop students' understanding of the essential aspects of working in a clinical environment

and to consolidate their imaging skills. Students will learn to how to image a variety of lesions and diseases, including common adult congenital heart defects, systemic diseases that affect the heart, pericardial and pulmonary diseases and cardiac masses. Considerable time will be spent in the clinical environment refining imaging techniques, and students will prepare an evaluation of their imaging skills.

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).

401293.1 Practice of Vascular Sonography 1

Credit Points 10 **Level** 7

Assumed Knowledge

Basic human anatomy & physiology and mathematics

Corequisite

401292.1 Principles of Vascular Sonography 1

Unit Enrolment Restrictions

Must be enrolled in 4765 Graduate Diploma in Vascular Sonography

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform

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This unit introduces students to the practice of vascular sonography. Students will learn how to acquire and optimise ultrasound images and to make basic measurements, In addition, they will learn to draw conclusions about cardiovascular anatomy and function based on the images and measurements, as well as learning how to write a basic report. The skills learnt in this unit, which includes work-integrated learning, provides foundational skills in vascular sonography.

401295.1 Practice of Vascular Sonography 2

Credit Points 10 **Level** 7

Assumed Knowledge

Basic human anatomy, physiology and mathematics

Prerequisite

401293.1 Practice of Vascular Sonography 1

Corequisite

401294.1 Principles of Vascular Sonography 2

Unit Enrolment Restrictions

Must be enrolled in 4765 Graduate Diploma in Vascular Sonography

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform

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In this unit, students will build on the knowledge and imaging skills they developed in Practice of Vascular Sonography 1. Additionally, they will learn to perform non-imaging physiological measurements, and be introduced to treatment protocols for vascular patients to complement their understanding of pathology. Image interpretation, report writing and essential aspects of professional practice are also included in this unit.

401297.1 Practice of Vascular Sonography 3

Credit Points 10 **Level** 7

Assumed Knowledge

Basic human anatomy & physiology

Prerequisite

401295.1 Practice of Vascular Sonography 2

Corequisite

401296.1 Principles of Vascular Sonography 3

Unit Enrolment Restrictions

Must be enrolled in 4765 Graduate Diploma in Vascular Sonography

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform

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This unit aims to further develop students' understanding of the essential aspects of working in a clinical environment and will help to consolidate their imaging skills. Students will learn how to image a variety of arterial and venous pathologies. Considerable time will be spent in the clinical environment refining imaging techniques, and students will prepare and evaluation of their imaging skills.

401299.1 Practice of Vascular Sonography 4

Credit Points 10 **Level** 7

Assumed Knowledge

Basic human anatomy & physiology

Prerequisite

401297.1 Practice of Vascular Sonography 3

Corequisite

401298.1 Principles of Vascular Sonography 4

Unit Enrolment Restrictions

Must be enrolled in 4765 Graduate Diploma in Vascular Sonography

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform.

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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 vascular sonographers. Care for and communication with patients and colleagues, continued professional development (CPD) and exposure to advance 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)

301237.1 Practice Research Studio 1

Credit Points 20 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 3761 Master of Architecture (Urban Transformation)

Special Requirements - Essential Equipment

Laptop with required software, per course 3761 requirements. Students are required to purchase consumables such as paper, card, plastic, plywood, adhesives, blades, and other essential materials for assessment tasks. Students will also need to pay for their own plotting and printing costs.

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Practice Research Studio 1 (PRS1) is the first in the sequence of postgraduate architecture and urban transformations studios. PRS1 shall focus upon the research and design of a single, comprehensive architectural project over the duration of the semester through either a civic, residential, or hybrid project type. Students will explore topics related to the broad umbrella of urban transformation and to contemporary architectural practices through the studio work, and will engage with a broad community of professionals, stakeholders, and programmatic conditions. Projects shall be representative of the often-contested intersection of competing interests of the urban environment, where the designer must conduct rigorous analysis and research to inform high-quality design outcomes that are attendant to social, ethical, regulatory, technical, procurement, and environmental issues. Students are expected to develop projects to a high degree of resolution in terms of spatial and experiential quality, technical proficiency, and conceptual rigour, underpinned by theoretical and historical knowledge, and communicated clearly. Projects in the studio will vary in scale, setting, building type, and complexity from year to year, with a thematic emphasis that contributes to the overall research direction of the architecture program at WSU. Students will be expected to engage in the studio with a high degree of individual motivation, resourcefulness, and inquisitiveness as would be expected of professional level studies.

301238.1 Practice Research Studio 2

Credit Points 20 **Level** 7

Corequisite

301240.1 Integrated Building Technology

Unit Enrolment Restrictions

Students must be enrolled in 3761 Master of Architecture (Urban Transformation)

Special Requirements - Essential Equipment

Laptop with required software, per course 3761 requirements. Students are required to purchase consumables such as paper, card, plastic, plywood, adhesives, blades, and other essential materials for assessment tasks. Students will also need to pay for their own plotting and printing costs.

Practice Research Studio 2 (PRS2) is the second in the sequence of postgraduate architecture and urban transformations design studios. PRS2 shall focus upon the research and design of a comprehensive architectural project over the duration of the semester through either a civic, residential, or hybrid project type (as distinct from PRS1 in the preceding semester). Students will explore topics related to the umbrella of urban transformation and to contemporary architectural practices through the studio work, and will engage with a broad community of professionals, stakeholders, and programmatic situations. Projects shall be representative of the often-contested intersection of competing interests of the urban environment, where the designer must conduct rigorous analysis and research to inform high-quality design outcomes that are attendant to social, ethical, regulatory, technical, procurement, and environmental issues. PRS2 will undertake projects that involve international sites, project contexts, programs, or collaborations. Students are expected to develop project work to a high degree of resolution in terms of spatial and experiential quality, demonstrating through clear communication and representation techniques the technical proficiency, conceptual rigour, and theoretical and historical knowledge that support the project outcomes. Projects in the studio will vary in scale, setting, building type, and complexity from year to year, with a thematic emphasis that contributes to the overall research direction of the architecture program at WSU. Students will be expected to engage in the studio with a high degree of individual motivation, resourcefulness, and inquisitiveness as would be expected of professional level studies.

301117.1 Predictive Analytics

Credit Points 10 **Level** 7

Prerequisite

301114.1 The Nature of Data

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Access to a computer is required.

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.

400412.4 Primary Health Care and its Applications

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course. The unit is also available as a non-award unit in the online mode.

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.

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform.

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

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform.

This unit will build on the knowledge acquired in Principles of Cardiac Sonography 1, via a blend of theoretical and practical activities. The students' understanding of cardiac

anatomy and physiology will be extended, and they will begin studying cardiovascular diseases. Aspects of ultrasound physics studied in this unit include identifying imaging artifacts, recognizing equipment limitations, and bio-effects and safety.

401187.1 Principles of Cardiac Sonography 3

Credit Points 10 **Level** 7

Prerequisite

401186.1 Principles of Cardiac Sonography 2

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform.

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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 study congenital and acquired heart lesions. They will examine systemic, pulmonary and pericardial diseases and cardiac masses, analyze data from basic echocardiogram measurements, and learn case study research skills by undertaking a case report. The university library's vast resources will provide an important aid to 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 disease and how to detect them by echocardiography and other imaging modalities. They will further develop their research skills and start contributing to the sonographic practice through conducting a case project and presenting the report to the professional audience. The university library's vast teaching and research resources will provide an important means for facilitating learning in this unit.

401292.1 Principles of Vascular Sonography 1

Credit Points 10 **Level** 7

Assumed Knowledge

Basic human anatomy, physiology and mathematics

Corequisite

401293 - Practice of Vascular Sonography 1

Unit Enrolment Restrictions

Students must be enrolled in 4765 Graduate Diploma in Vascular Sonography

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform.

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In this unit, students will study two essential areas of knowledge for vascular sonographers: I. cardiovascular anatomy and physiology and II. ultrasound physics. The normal anatomy and physiology of the cardiovascular system, and the key physics principles utilized in ultrasound imaging will comprise the majority of the unit content. This unit provides an essential basis for future study in the Graduate Diploma in Vascular Sonography.

401294.1 Principles of Vascular Sonography 2

Credit Points 10 **Level** 7

Assumed Knowledge

Basic human anatomy, physiology and mathematics

Prerequisite

401292.1 Principles of Vascular Sonography 1

Corequisite

401293 - Practice of Vascular Sonography

Unit Enrolment Restrictions

Students must be enrolled in 4765 Graduate Diploma in Vascular Sonography

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform.

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This unit builds on the knowledge acquired in Principles of Vascular Sonography 1, via a blend of theoretical and practical activities. Students' knowledge of general pathology principles will be extended, and they will also cover the principles of coagulation and atherosclerotic disease. Aspects of ultrasound physics studies in this unit include identifying imaging artefacts, recognizing equipment limitations and bio-effects and safety. Basic vascular pharmacology is also covered.

401296.1 Principles of Vascular Sonography 3

Credit Points 10 **Level** 7

Assumed Knowledge

Basic human anatomy, & physiology

Prerequisite

401294.1 Principles of Vascular Sonography 2

Corequisite

401297 - Practice of Vascular Sonography 3

Unit Enrolment Restrictions

Students must be enrolled in 4765 Graduate Diploma in Vascular Sonography

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform

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This unit will extend the student's knowledge of cerebrovascular and peripheral vascular arterial disease, along with thrombotic venous disease. Students will learn

essential research skills, for which the university's vast learning resources will provide an important aid.

401298.1 Principles of Vascular Sonography 4

Credit Points 10 **Level** 7

Assumed Knowledge

Basic human anatomy and physiology

Prerequisite

401296.1 Principles of Vascular Sonography 3

Corequisite

401299 - Practice of Vascular Sonography 4

Unit Enrolment Restrictions

Students must be enrolled in 4765 Graduate Diploma in Vascular Sonography

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform

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This unit aims to provide students with adequate knowledge and skills to practice competently and safely as vascular sonographers. Students will learn about more specialised diseases and how to detect them using ultrasound and other imaging modalities. Research skills will also be developed and students will start contributing to a wider sonographic practice by conducting a case project and presenting the report to the professional audience. The university library's vast teaching and research resources will provide an important means for facilitating learning in this unit.

301104.1 Professional Practice and Building Law

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in the Master of Building 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. Students enrolled in the Master of Building Surveying or Graduate Diploma in Building Surveying must have successfully completed 40 credit points.

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The basis of this unit is to ensure students become accustomed to reading and interpreting building and related laws. The unit provides students with background knowledge of the negligence, administrative law, life safety, proportional liability, contracts 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 within the legal constraints when acting as certifiers and or experts. 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. Additionally they are potentially required to brief solicitors or other legal professionals and

will ultimately have a duty to the court or tribunal. The unit requires students to, locate, read and interpret legislative provisions, tribunal and court precedent 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.

301104.2 Professional Practice and Building Law

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in the Master and Grad Dip Building Surveying; Master and Grad Dip Bushfire Protection; Master and Grad Dip Fire Safety Engineering or Master of Architecture (Urban Transformation). Students enrolled in the Master or Graduate Diploma in Building Surveying must have completed 40 credit points prior to enrolling in this unit

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The basis of this unit is to ensure students become accustomed to reading and interpreting building and related laws. The unit provides students with background knowledge of the negligence, administrative law, life safety, proportional liability, contracts 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 within the legal constraints when acting as certifiers and or experts. 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. Additionally they are potentially required to brief solicitors or other legal professionals and will ultimately have a duty to the court or tribunal. The unit requires students to, locate, read and interpret legislative provisions, tribunal and court precedent 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.

301005.2 Professional Practice and Communication

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

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 contract laws and legal responsibility, competence in verbal and written communication, and an understanding of ethical considerations.

400850.3 Professional Topic

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must have permission from Unit Coordinator to enrol in the unit. Students must have GPA of 5.0 or above. Students must be enrolled in a Postgraduate Course.

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This unit is designed to allow high achieving students to comprehensively explore a relevant topic of interest to them, either through a minor supervised research project or industry-based project. This unit's flexible delivery offers a unique experience specific to each project and student. Students in this unit will develop extensive skills through project-based learning essential for employment and/or higher degree studies.

301113.1 Programming for Data Science

Credit Points 10 **Level** 7

Assumed Knowledge

Familiarity with computer software programs such as Excel.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Access to a computer and Internet at home

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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.

51240.5 Project Management

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course, 3752 Master of Project Management or 3749 Master of Science. Students enrolled in other courses require approval from the Director of Academic Program for their course to enrol in this unit.

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This unit introduces students to the philosophy, tools and techniques for effectively managing projects in an organisation. Participants will be required to apply lessons learned to real-world situations and cases, developing their professional expertise in project management in ways that are relevant to their careers. Topics include organisational strategy and project selection; project definition and criteria of merit; tools and techniques; team leadership and management; development of project plans; estimation of time and resources; risk analysis and management; scheduling and control; resource allocation; project tracking; project closure and review. Participants will be expected to use MS Project as a project management tool.

301191.2 Project Procurement Systems

Credit Points 10 **Level** 7

Assumed Knowledge

Basic knowledge of the industry practice in general

Unit Enrolment Restrictions

Students must be enrolled in the postgraduate course of Master of Project Management, Graduate Diploma of Project Management, Graduate Certificate of Project Management, or the Master of Architecture (Urban Transformation)

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This unit examines contemporary practice in relation to procurement strategies such as traditional procurement, relational contracting, strategic project alliancing, and public-private partnerships / private finance initiatives within project environments. The unit will challenge students to examine built environment business ecologies which underpin strategic procurement decision making. Unique procurement environments will be explored, allowing the students to examine key themes of procurement management.

400858.4 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

For students enrolled in 4745 only 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

Unit Enrolment Restrictions

Students must be enrolled in 4719 Master of Mental Health Nursing or 4745 Master of Nurse Practitioner (Mental Health). Students in 4745 must be working in in mental health services at an advanced practice level and must nominate a primary supervisor / mentor / assessor and 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 is explored. The importance of appropriate collaborative processes between the nurse practitioner, clients across the lifespan and their families in medication management is addressed.

102574.1 Public Health in Complex Emergencies (Advanced)

Credit Points 10 **Level** 7

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The health, socio-economic, and political aspects of conflicts and disasters are complex and multidimensional requiring political commitment and coordinated and effective prevention. This unit uses critical analyses to provide students with the skills and knowledge required to understand the politics of public health response in emergency situations. Students will be introduced to rapid health assessment protocols in, and health priorities and the prevention of public health effects of, complex emergencies. They will gain practical skills to evaluate and critically appraise the evidence used to inform public health policy and the effectiveness of different decision-making practices in emergency situations.

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

Unit Enrolment Restrictions

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.

401238.1 Qualitative Research Methodology in Health

Credit Points 10 **Level** 7

Assumed Knowledge

A basic understanding of qualitative research methods.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Computer access

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This unit prepares students to conduct qualitative research in a variety of settings. The unit covers ontology and epistemology of qualitative theories including phenomenology, ethnography, narrative enquiry and grounded theory. Students will learn how to collect, code, analyse and interpret qualitative data to ensure robust qualitative research findings. Students on this unit will develop skills in writing qualitative research questions, ethics applications and qualitative research papers.

401253.1 Reflective Clinical Allergy Practice

Credit Points 20 **Level** 7

Assumed Knowledge

A completed medical degree (MBBS, MBChB or equivalent qualification) is required and current practice as a clinician is desirable to successfully undertake this unit. Also, must have knowledge of immunological concepts and clinical aspects of allergic diseases, and experience with allergy diagnosis and management in clinical practice. Satisfactory knowledge and experience in clinical allergy will have been acquired through the existing Graduate Certificate in Allergic Diseases (course code 4689) or via other accredited professional training.

Prerequisite

401063.1 Allergic Sciences OR **401249.1** Allergic Sciences 1 AND **401250.1** Allergic Sciences 2

Unit Enrolment Restrictions

Students must be enrolled in Master of Medicine (Allergic Diseases). Students must be medical practitioners registered with AHPRA or the New Zealand Medical Board.

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform vUWS at <https://vuws.westernsydney.edu.au/> and <http://uws.zoom.us/> to do the online case presentation.

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This is an online bridging unit for students with a Graduate Certificate in Allergic Diseases qualification or other recognised allergy training who wish to pursue further study in allergic diseases. Students with acceptable prior learning to enrol in this unit will enter Year 2 of the Master of Medicine (Allergic Diseases) with the option to exit at the Diploma level. The unit enables students to revise the latest

theoretical and clinical concepts in allergic diseases and reflect on their own clinical allergy practice. Reflection will be promoted through case presentation and reports and literature review.

800212.1 Research and Public Policy

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a PhD course.

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This unit examines the link between research and public policy in order to effect change in society. This unit is focussed on an internship with the Whitlam Institute or other public policy think tank and will include guest lectures from experts in public policy development. Upon completion of this unit, students will demonstrate their learning by completing a peer-reviewed public policy paper.

800166.1 Research Design 1: Theories of Enquiry

Credit Points 10 **Level** 5

Unit Enrolment Restrictions

Students must be enrolled in 8083 Bachelor of Research Studies/Master of Research, 8084 Master of Research (High Cost) or 8085 Master of Research (Low Cost), 8119 Bachelor of Research Studies/ Master of Research (Planning), 3702 Master of Information and Communications Technology (Research), 1870 Master of Chinese Cultural Relations or 3761 Master of Architecture (Urban Transformation).

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This unit introduces students to the principles of research design and examines the process of academic knowledge production. Using theories from the philosophy of science and the sociology of knowledge, combined with regular reflective writing exercises, students will be guided through various aspects of project design, including the development of a research question, the selection of appropriate methodologies, and the preparation of a draft MRes thesis proposal. Upon completion of the unit students will have a firm understanding of the context of academic knowledge production, and will be able to demonstrate competence in designing a research proposal.

800169.1 Research Design 2: Practices of Research

Credit Points 10 **Level** 5

Prerequisite

800166.1 Research Design 1: Theories of Enquiry

Unit Enrolment Restrictions

Students must be enrolled in 8083 Bachelor of Research Studies/Master of Research, 8084 Master of Research (High Cost) or 8085 Master of Research (Low Cost), 8119 Bachelor of Research Studies/ Master of Research (Planning), 3702 Master of Information and Communications Technology (Research), 1870 Master of Chinese Cultural Relations or 3761 Master of Architecture (Urban Transformation).

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This unit builds upon Research Design 1: Theories of Enquiry and will help students develop and refine their MRes thesis proposal. All workshops are interactive, focusing on sections of the thesis proposal. The unit includes workshops on research ethics that will help students articulate the significance and relevance of their work, and will assist those whose projects require formal ethics clearance. Students will submit a final written proposal and deliver an oral Presentation of Proposal (POP). After successful completion of this unit, students will have demonstrated an ability to design and justify a research project.

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 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 the differences between study, investigation and research? In this unit, the main emphasis will be on different types of modern research and their methods/ methodologies with special emphasis on Science, Technology, Engineering & Mathematics (STEM). This unit 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.

401078.2 Research Project

Credit Points 20 **Level** 7

Assumed Knowledge

A good understanding of research design and practice, including the development of research objectives, selection of an appropriate study design, data source or data collection plan, sample, analytic strategy. Introductory epidemiological and biostatistics knowledge is also expected.

Corequisite

For students enrolled in the 4698 Master of Health Science and 4702 Master of Public Health courses: 401080 Research Protocol Design and Practice For all students: 401076 Introduction to Epidemiology, 401077 Introduction to Biostatistics

Unit Enrolment Restrictions

Students must be enrolled in a post graduate course and have a GPA of 5.5 or greater. If students are enrolled in the Master of Epidemiology, 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'. For students enrolled in the Master of Public Health or Master of Health Science they are also required to be enrolled in, or have completed 401080 Research Protocol Design and Practice. 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. Supervisor endorsement. Approval of the Research Project Proposal must be provided by the Unit Coordinator to ensure 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). Students will have the opportunity to participate in workshops where they will practice defining a clear research question, preparing a formal research proposal, conducting a review of a body of scientific literature and formal writing at a professional standard. Students will also learn about ethical standards when conducting research.

301055.3 Research Project A

Credit Points 20 **Level** 7

Assumed Knowledge

Knowledge in one of the following fields: • Building surveying • Bushfire protection • Computing, ICT, Networking • Construction • Engineering • Fire safety engineering • Mathematics • Project management.

Prerequisite

Students enrolled in 3716 Master of Mathematics student must have successfully completed 301057 Calculus of Variations and Advanced Calculus, 301058 Non-linear Ordinary Differential Equations, 301059 Applied Complex Variables and 301060 Approximation Theory. Students enrolled in 3752 Master of Project Management must have successfully completed 301187 Managing Project Teams and Stakeholders, 301194 Financial Management of Projects, 301195 Time and Quality Management, 51240 Project Management AND 301192 Risk Management and Decision Making, and 301193 Strategic Project Management.

Incompatible Units

300597 Master Project 1, 300598 Master Project 2

Unit Enrolment Restrictions

Students must be enrolled in 3703 Master of Building Surveying, 3705 Master of Fire Safety Engineering, 3708 Master of Bushfire Protection, 3716 Master of Mathematics, 3722 Master of Advanced Networking or 3752 of Project Management. For all above listed courses students are required to complete 80 credit points before enrolling into this unit.

Special Requirements - Essential Equipment

Access to the internet and appropriate hardware and software for online study.

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This unit is a problem based research unit. Students are expected to conduct individual studies under supervision by academic staff. Students will acquire the basic skills that are essential for completing a research project. They will learn how to identify research topics in the fields relevant to their courses. They will be required to define research objectives and scope, conduct literature survey, establish research methodology, prepare a research plan and present these contents in a final report and through an oral presentation. This unit is a pre-requisite of unit 301056 Research Project B in which the research plan will be carried out.

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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate 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).

301056.2 Research Project B

Credit Points 20 **Level** 7

Assumed Knowledge

Knowledge in one of the following fields relevant to • Building surveying • Bushfire protection • Computing, ICT, Networking • Construction • Engineering • Fire safety engineering • Mathematics • Project management.

Prerequisite

301055.2 Research Project A

Incompatible Units

300597 Master Project 1, 300598 Master Project 2

Unit Enrolment Restrictions

Successful completion of 80 credit points of study in currently enrolled course. Students must be enrolled in the following post graduate courses: 3703 Master of Building Surveying, 3705 Master of Fire Safety Engineering, 3708 Master of Bushfire Protection, 3716 Master of Mathematics, 3722 Master of Advanced Networking or 3752 Master of Project Management.

Special Requirements - Essential Equipment

Access to the internet and appropriate hardware and software for online study.

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This unit is a continuation of the unit 301055 Research Project A and is a problem based project unit. Students are expected to conduct individual studies under supervision by academic staff and deliver the final outcomes/findings on the research topics that are proposed in 301055 Research Project A. Students will employ the identified methodologies to carry out the research plans and fulfil the research objectives with the scope defined in the 301055 Research Project A. Each individual student is required to produce an oral presentation and a final written report. In this unit, students will acquire research related problem solving skills.

401248.1 Research Project in Cardiac Sonography

Credit Points 20 **Level** 7

Prerequisite

401077.1 Introduction to Biostatistics AND **401247.1** Advanced Principles and Practice of Cardiac Sonography

Unit Enrolment Restrictions

Students must be enrolled in the Master of Cardiac Sonography.

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The primary aims of this unit are to: i. Design, and ii. Execute and complete, a research project based on the cardiac ultrasound technology chosen by the student in Advanced Principles and Practice of Cardiac Sonography. Successful completion of the unit results in the composition of a report, and in an oral presentation, which will include details of the aims, methods, results and conclusions of the project.

401084.2 Research Project in Health Care

Credit Points 20 **Level** 7

Prerequisite

Students in the Master of Child & Family Health (Karitane), Master of Nursing or Master of Mental Health Nursing must complete 401167 Applied Research in Health Care AND 400975 Ethics in Health Research before enrolling in this unit. Students in the Master of Primary Health Care must pass 400975 Ethics in Health Research before enrolling in this unit.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course and have successfully completed 60 credit points at Level 7.

Special Requirements - Essential Equipment

Access to the internet and a computer.

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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 Research in Health Care (401167) and Ethics in Health Research (400975) where the dissertation topic will be identified and students will be allocated a supervisor.

401275.1 Research Project in Rural Generalist Medicine

Credit Points 20 **Level** 7

Assumed Knowledge

401080 Research Protocol and Design

Unit Enrolment Restrictions

Must be enrolled in the Masters of Medicine (Rural Generalism)

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform vUWS at <https://vuws.westernsydney.edu.au/>

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This unit is an essential part of the final year of the Masters of Medicine (Rural Generalism). It will build on the students' knowledge and skills gained in prior units and the aim of this unit is to design and conduct a research project from an area relevant to their practice of rural generalism. Successful completion of the unit results in the composition of a report, and in an oral presentation, which will include details of the aims, methods, results and conclusions of the project.

401080.2 Research Protocol Design and Practice

Credit Points 10 **Level** 7

Corequisite

401076.1 Introduction to Epidemiology AND **401077.1** Introduction to Biostatistics

Co-requisite unit for students enrolled in 4716 Master of Chinese Medicine only: 401129 - Evidence Based Practice in Chinese Medicine

Equivalent Units

300398 - Methods of Researching

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

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.

800209.1 Researcher Engagement and Impact

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a PhD course.

Maximising impact requires strategy. In addition to an extensive relationship-building with external parties as well as a general commitment to knowledge translation, achieving impact also means being strategic with research design from the earliest stages of project planning. Who is your research targeted to? What are the broader social aims of your research? Which individuals and organisations might have a stake in the outcomes of your research? What are the relevant disciplinary, policy, economic, industry, and social contexts for your research? What barriers or opportunities exist within these contexts? What social media and other communication platforms are available for you to transfer knowledge? What types of public communication should you engage in, and at what stages of your research? This unit will explore how to design research projects with such questions in mind, by combining collaborative workshops with assessments tailored specifically to your own circumstances. Whatever stage your research is at, you will have the opportunity to produce output that will feed into your broader impact or engagement objectives.

800197.1 Researcher Knowledge and Development

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a PhD course.

Researchers must have an in-depth knowledge of their research area and the appropriate methods used, as well as the ability to access and manage large amounts of information. This unit will provide students with the opportunity develop a range of literacies and cognitive abilities, culminating in the presentation of the student's Early Candidature Plan.

101962.1 Researching Convergent Media

Credit Points 10 **Level** 7

Equivalent Units

101793 - Methods and Case Studies in Convergent Media

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Standard vUWS site

The contemporary creative industries landscape is characterised by the breakdown of traditional media silos and the transformation of media production and consumption practices. Media, marketing and creative professionals are now required to understand and connect with their audiences across multiple media platforms and to undertake diverse research deploying many new methodologies. The aim of this unit is to provide students with an historical, geopolitical and theoretical introduction to research in the creative industries. The case studies and topics covered vary from semester to semester and can include data visualisation, digital ethnography, digital games, community media, digital arts, activist networks, social media and cross platform projects. Using current media theory, design theories, and research methodologies, students will select, analyse and contextualise case studies.

200721.2 Reward Management

Credit Points 10 **Level** 7

Equivalent Units

51280 - Remuneration Theory and Practice

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

This unit enables employment relations professionals to deploy advanced practitioner skills in specific workplace and institutional contexts. The management and the negotiation of reward are emphasised. Innovations such as strategic and total reward strategies are critically examined. These innovations relate to the key issues of market-imperatives and fairness, including the balance between collective and individually-determined reward and reward strategies related to performance.

301192.1 Risk Management and Decision Making

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in course 3752 Master of Project Management.

This unit introduces decision theory, concepts and techniques applicable in managing projects. These techniques provide the basis for understanding project risks. The risk management process is reviewed in detail and dynamics of applying it in specialisation domains is discussed. The unit also analyses the concept of value and how value management is applied in managing projects. The different approaches of applying value management in different specialisations are discussed.

401270.1 Rural and Remote Medicine: The Generalist Approach

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled on Masters of Medicine (Rural Generalism)

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform vUWS at <https://vuws.westernsydney.edu.au/>

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This unit introduces the student to the concepts of rural generalist practice and provides them with an understanding of the complexities and inequalities of providing health care in rural and remote Australian settings. Students will be expected to appraise the current literature around generalist practice and evaluate the models of care and health systems that support a generalist approach. The students will also determine the skills required to effectively deliver the required scope of practice

301190.1 Safe and Sustainable Construction

Credit Points 10 **Level** 7

Assumed Knowledge

Students are expected to have basic knowledge in building and construction.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit introduces two important aspects of construction projects: workplace safety and sustainability. Safety and sustainability are crucial issues in the upper echelons of the construction industry. This unit is intended to explore the theoretical frameworks and best practices to support health and safety in construction projects. It introduces various assessment tools and techniques that can be used to measure and improve sustainability in construction projects.

300677.3 Safety and Risk Management

Credit Points 10 **Level** 7

Assumed Knowledge

Recognition that Occupational Health and Safety procedures are legislatively required at the workplace and the ability to recognise the need to protect workers from harm at the workplace.

Equivalent Units

300390 - Safety Management. 300395 - Risk Assessment

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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 Occupational Health and Safety (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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course, and have successfully completed 60 credit points at Level 7.

Special Requirements - Essential Equipment

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

Unit Enrolment Restrictions

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.

200980.1 Security of Ideas

Credit Points 10 **Level** 7

Prerequisite

Students enrolled in 2784/2810 Master of Laws (International Governance) must have successfully completed the prerequisite unit 200901 Legal Philosophy and Methodology.

Corequisite

Students enrolled in 3748 Master of Information Governance must be enrolled in or have successfully completed the corequisite unit 200432 Commercial Law.

Unit Enrolment Restrictions

Students must be enrolled in 2784 or 2810 Master of Laws (International Governance), 3748 Master of Information Governance, Bachelor of Research Studies or Master of Research.

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This unit provides an introduction and overview of the legal principles of intellectual property law, and traces the development of this law in Australia. The modules consider the different forms of intellectual property including copyright (including moral rights and performers protection), designs, patents, plant breeders rights, trade mark law, passing-off and related actions, domain name law, confidentiality, circuit layouts, the historical development of intellectual property, and the international intellectual property framework (including World Intellectual Property Organization (WIPO) and World Trade Organization (WTO)).

301189.1 Smart Construction

Credit Points 10 **Level** 7

Assumed Knowledge

It is expected that students will have a basic understanding of construction procurement processes at undergraduate level.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit introduces the evolving smart technologies applicable to construction and facilitates critical thinking in how these technologies can be gainfully applied in the construction industry. It builds up understanding of the subject content from baseline principles of management information systems moving towards evolving new technologies. The modern construction enterprises are critically analysed to determine the application of suitable technologies for their advancement.

301116.1 Social Media Intelligence

Credit Points 10 **Level** 7

Assumed Knowledge

Basic algebra and computing skills.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course. Please note: Students enrolled in 3693 Master of Engineering MUST select the campus offering, NOT the online mode.

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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.

200971.1 Start-up

Credit Points 20 **Level** 7

Assumed Knowledge

Understanding of the business environment and organisational structures, business communications skills, business strategy, as well as substantial knowledge in the discipline.

Unit Enrolment Restrictions

Students must be enrolled in course 2761 Master of Business Administration, 3698 Master of Information and Communications Technology (Advanced) or 3699 Master of Information and Communications Technology and must obtain permission to enrol in this unit. Students must have successfully completed all core units plus 40 credit points of specialisation units (i.e. a total of 80 credit points).

Developing start-ups and rejuvenating existing businesses are essential for industry and regional development and regeneration. This unit integrates knowledge from the Master of Business Administration (MBA) Program into frameworks for students to experience developing an idea into prototype products and services and start-up businesses.

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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business or Information and Communications Technology course or be enrolled in course 3748 Master of Information Governance.

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.

301193.1 Strategic Project Management

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in course 3752 Master of Project Management.

This unit teaches students the importance of aligning projects with the business strategy. Strategic alignment is a two-way process. Overall business strategy guides project planning, and, in turn, project success drives enterprise strategy. Students understand the bigger-picture goals, how to identify what is being accomplished and why, and how to achieve goals. Other topics include measuring project success and portfolio and program management.

200329.4 Supply Chain Management

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course, the Master of Research, 3752 Master of Project Management or 3749 Master of Science.

With a rapid increase in global trade and increasing customer expectations, firms are under considerable competitive pressure to find cost-effective and creative ways of delivering value to customers. Since the creation of customer value needs to be viewed holistically – from raw material movement from suppliers through to transformation in the factory and then on to distributors and customers – the effective management of the supply chain and related business networks is critical to achieving competitive advantage. Through formal lectures, case study discussions, and assignments, this unit provides the foundational knowledge, tools, and techniques needed to participate in the design, implementation, and management of an effective supply chain.

400241.3 Supporting Aged Communities

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

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.

400838.2 Supporting Individuals and Communities in Crisis

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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.

401227.1 Surgical Pathology 1

Credit Points 10 **Level** 7

Assumed Knowledge

A basic undergraduate level knowledge in Pathology and microscopy skills is expected, as the candidates will have a MBBS or equivalent pre-requisite degree.

Unit Enrolment Restrictions

Students must be enrolled in 4750 Masters of Medicine (Pathology).

Special Requirements - Essential Equipment

Computer with internet access for the on-line modules.

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This unit uses a blended learning approach to introduce diagnostic entities in surgical pathology entities of neuropathology, cardiorespiratory pathology, genito-urinary pathology, salivary gland and endocrine pathology, skin and soft tissue pathology. The unit provides training in basic research skills, communication skills, and critical thinking. The face-to-face component is a weeklong intensive teaching programme with lectures, practical microscopy classes, and question and answer sessions. The self-directed online learning module is composed of digitalized images and practical notes on the diagnostic approach to important pathological entities of the central nervous system and spinal cord.

401229.1 Surgical Pathology 2

Credit Points 10 **Level** 7

Assumed Knowledge

A basic undergraduate level knowledge in Pathology and microscopy skills is expected, as the candidates will have a MBBS or equivalent pre-requisite degree.

Unit Enrolment Restrictions

Students must be enrolled in 4750 Masters of Medicine (Pathology).

Special Requirements - Essential Equipment

Computer with internet access is required for the on-line modules.

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This unit will re-inforce the diagnostic entities in genito-urinary tract, salivary gland and endocrine system pathology that were introduced in Surgical Pathology I. Two self-directed online learning modules with digitalized images and practical notes on the diagnostic approach to important pathological entities of the above sub-specialties will be provided. The basic concepts in surgical, cyto- and small biopsy pathology, including the appropriate ancillary techniques in the diagnosis, prognostication and treatment prediction will be assessed. This unit is designed to further develop the basic research and communication skills, and critical thinking acquired in Surgical Pathology I, and to reinforce the resources and technical requirements needed to reach the correct pathological diagnosis.

401230.1 Surgical Pathology 3

Credit Points 10 **Level** 7

Assumed Knowledge

A basic undergraduate level knowledge in Pathology and microscopy skills is expected, as the candidates will have a MBBS or equivalent pre-requisite degree.

Unit Enrolment Restrictions

Students must be enrolled in 4750 Masters of Medicine (Pathology).

Special Requirements - Essential Equipment

Computer with internet access is required for the on-line modules.

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This unit will re-inforce the diagnostic entity in skin and soft tissue pathology that were introduced in Surgical Pathology I. The first self-directed online learning module is composed of digitalized images and practical notes on the diagnostic approach to important pathological entities of these sub-specialties. The second online module will revise prior learning of the sub-specialties neuropathology, cardiorespiratory pathology, genito-urinary pathology, salivary gland and endocrine pathology. A literature review and discussion of contemporary and emerging developments in the relevant pathological entity will be conducted. This unit is designed to not only re-inforce/revise the above topics, but to harness effective communication and analytical research skills and to understand the importance of professional development.

401231.1 Surgical Pathology 4

Credit Points 10 **Level** 7

Assumed Knowledge

A basic undergraduate level knowledge in Pathology and microscopy skills is expected, as the candidates will have a MBBS or equivalent pre-requisite degree.

Unit Enrolment Restrictions

Students must be enrolled in 4750 Masters of Medicine (Pathology).

Special Requirements - Essential Equipment

Computer with internet access is required for the on-line modules.

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This unit uses a blended learning approach to introduce diagnostic entities in surgical pathology entities of gastrointestinal and liver, breast, head and neck, paediatric, gynaecological and haemato-pathology in a blended learning mode. The unit provides training in basic research skills, communication skills, and critical thinking. The face-to-face component is a weeklong intensive teaching programme with lectures, practical microscopy classes, and question and answer sessions. The self-directed online learning module is composed of digitalized images and practical notes on the diagnostic approach to important pathological entities of the gastrointestinal tract and liver will be provided. This unit will introduce the importance of professional development and promote an attitude of inquiry that will aid in the conduct of research.

401233.1 Surgical Pathology 5

Credit Points 10 **Level** 7

Assumed Knowledge

A basic undergraduate level knowledge in Pathology and microscopy skills is expected, as the candidates will have a MBBS or equivalent pre-requisite degree.

Unit Enrolment Restrictions

Students must be enrolled in 4750 Masters of Medicine (Pathology).

Special Requirements - Essential Equipment

Computer with internet access is required for the on-line modules.

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This unit will re-inforce the diagnostic entities in haematopathology, head and neck, and paediatric pathology that were introduced in Surgical Pathology IV. Two self-directed online learning modules with digitalized images and practical notes on the diagnostic approach to important pathological entities of the above sub-specialties will be provided. Upon completion of the unit students will have advanced knowledge in surgical, cyto- and small biopsy pathology, including appropriate ancillary techniques and recent research developments. This unit will promote behaviours that create a safe, caring, ethical and professional practice required by pathologists.

401234.1 Surgical Pathology 6

Credit Points 10 **Level** 7

Assumed Knowledge

A basic undergraduate level knowledge in Pathology and microscopy skills is expected, as the candidates will have a MBBS or equivalent pre-requisite degree.

Unit Enrolment Restrictions

Students must be enrolled in 4750 Masters of Medicine (Pathology).

Special Requirements - Essential Equipment

Computer with internet access for the on-line modules.

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This unit will revise the diagnostic entities in gynaecological pathology that were introduced in Surgical Pathology IV. The first self-directed online learning module is composed of digitalized images and practical notes on the diagnostic approach to important pathological entities of gynaecological pathology. A second online module will revise the sub-specialties covered in Surgical Pathology I through V. Students will be required to complete a literature review of contemporary and emerging developments in a relevant pathological entity. This unit is designed to revise all areas of surgical pathology within the Master of Pathology as well as promote engagement with professional development activities relevant to a career as a pathologist.

400847.3 Surveillance and Disaster Planning

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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This unit addresses 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 addresses 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 deals with Australian requirements and systems as well as international and Australian roles in the region.

300939.2 Sustainability and Risk Engineering (PG)

Credit Points 10 **Level** 7

Assumed Knowledge

Engineering problem solving skills.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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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

Unit Enrolment Restrictions

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.

301142.1 Synthetic Medicinal Chemistry

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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This unit has been developed to introduce students to the chemical principles and procedures surrounding the synthesis of commonly encountered licit and illicit chemical substances, and to introduce you to the processes involved in the forensic analysis of clandestine drug laboratories. This unit is taught by the University of Florida as part of a collaborative venture between the University of Florida and Western Sydney University. Note: Further information on this unit is available from the University of Florida.

300977.2 Systems Analysis and Database Management Systems

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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

Unit Enrolment Restrictions

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.

401274.1 Telehealth and Rural Communities

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled on Masters of Medicine (Rural Generalism)

Special Requirements - Essential Equipment

Students will need a computer and internet access to use the e-learning platform vUWS at <https://vuws.westernsydney.edu.au/>

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This unit will examine the main clinical, technical and contextual aspects of telehealth relevant to the practice in rural and remote communities. Students will appraise the literature and evidence-based resources regarding e-health to promote best practice in rural generalism and formulate an implementation plan for the introduction or expansion of telehealth services in their practice. They will also develop skills that will enable them to conduct a safe, effective and culturally appropriate telehealth consultation

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.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

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.

301195.1 Time and Quality Management

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in course 3752 Master of Project Management.

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This unit introduces time and quality management using basic planning and quality concepts. The unit will cover concept of planning and critical path methods including Project Evaluation and Review Technique (PERT), Line of Balance (LoB), Resource Management and Network. Relevant time management software is to be introduced in this unit to plan and manage project activities. The unit will also help students to understand and analyse quality system accreditation process and manage scope and changes in a project.

301138.1 Toxic Substances

Credit Points 10 **Level** 7

Prerequisite

301135.1 General Toxicology

Unit Enrolment Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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This unit, which is primarily book-based, will comprehensively provide the student with the fundamental concepts of toxicology as they relate to specific organ and tissue systems. We aim to supplement this information with online study guides, detailed module objectives and critical thinking exercises using online journal articles. The

objective of this unit is to familiarize students with many of the most important toxic substances, their toxic effects, and ways to treat poisoned patients. Several example toxicants are presented and discussed in detail. There are literally tens of thousands of chemicals in commerce, and nature offers even greater numbers of chemicals to which individuals are exposed. According to the basic tenets of toxicology, any of these substances in sufficient doses is toxic, although some clearly are of greater health concern than others. The objective of this unit is to provide the student with information on the toxic properties of selected chemicals to illustrate principles regarding mechanisms of toxicity, the array of signs and symptoms associated with intoxication, approaches to clinical assessment of poisoning, and methods of treatment. Examples have been selected from several chemical classes and include agents that may be encountered occupationally, environmentally, in medicine, or in the context of substance abuse. This unit is taught by the University of Florida as part of a collaborative venture between the University of Florida and Western Sydney University. Note: Further information on this unit is available from the University of Florida.

301150.1 Toxicology of Chemical Weapons

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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This 3-credit unit is structured to comprehensively provide the student with the fundamental toxicologically relevant concepts of weapons that can be used to create mass casualties. These weapons are often called weapons of mass destruction, a term that is closely related to but not synonymous with mass-casualty weapons (a technically more appropriate term). This unit will focus on chemical agents and toxins as the toxicologically relevant mass-casualty weapons. Each of the eight modules in the unit will consist of specific objectives, one or more illustrative cases, a list of the primary references that the student will be expected to acquaint himself or herself with, a brief introduction, a section of teaching material and study tips, and assignments designed to stimulate critical thinking. The general objectives of this unit are to familiarize the student with the toxicological concepts applicable to chemical and toxin weapons of mass destruction; to provide useful references for study, discussion, and reference; and to provide experience in critical thinking about the clinical toxicology of these agents. This unit is taught by the University of Florida as part of a collaborative venture between the University of Florida and Western Sydney University. Note: Further information on this unit is available from the University of Florida.

102180.2 Translation from Theory and Research to Policy

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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The focus of study in this unit is on policy-making and implementation and the place of theory and research in policy formation. In the first part of the unit students explore the nature of public policy – addressing constructs of policy and policy-making and approaches to analysing public policy. The political and social practices of policy-making and implementation in Australia are contextualised and examined at the local, national and global levels. The second part of the unit takes examples of policy-making in the field of social sciences and examines the role of theory and research in the problematisation of issues and identification of solutions. The identification of competing interests, relations of power and key players in understanding, analysing and responding to policy and its outcomes will be undertaken.

200825.3 Understanding Contemporary Organisations

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 2761 Master of Business Administration 2765 Graduate Certificate in Business 2782 Master of Business Administration/Master of Applied Finance 2806 Master of Marketing 3698 Master of Information and Communications Technology (Advanced) 3699 Master of Information and Communications Technology 3702 Master of Information and Communications Technology (Research) or 3748 Master of Information Governance

Understanding Contemporary Organisations introduces the theoretical perspectives offered by the disciplines of business and organisation studies to students who have not previously undertaken a business study program. Students will develop their understanding of organisational structure and design and then examine the processes and practices that flow from structure and design. Through this unit, students build an integrated understanding of marketing, finances and people management practices in contemporary organisational settings.

101314.3 Urban Management Practice: Governance and Power in the City

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Governance is a central but often overlooked issue in Urban Management. What is governance? What are the principles of good governance? What are some of the governance challenges in major metropolitan cities that cover multiple jurisdictions? How do statutory local governments engage with specialist state agencies in fields such as economic development, environmental planning, and infrastructure planning? This unit answers these questions, reviews governance practices in major cities across the world and provides students with knowledge of key governance tools. Students will prepare a research report dealing with a significant urban governance challenge, and provide recommendations about how to implement solutions to that challenge. The central objective

of the course is to provide students with a sound framework and set of tools with which to address governance issues.

301241.1 Urban Transformation Thesis Studio 1

Credit Points 20 **Level** 7

Prerequisite

301237.1 Practice Research Studio 1 AND **301238.1** Practice Research Studio 2 AND **800166.1** Research Design 1: Theories of Enquiry AND **800169.1** Research Design 2: Practices of Research

Unit Enrolment Restrictions

Students must be enrolled in 3761 Master of Architecture (Urban Transformation)

Special Requirements - Essential Equipment

Laptop with required software, per course 3761 requirements. Students are required to purchase consumables such as paper, card, plastic, plywood, adhesives, blades, and other essential materials for assessment tasks. Students will also need to pay for their own plotting and printing costs.

Urban Transformation Thesis Studio 1 (UTTS1) is the third in the sequence of postgraduate architecture and urban transformations design studios. UTTS1 is the first stage of the 2-semester thesis investigation that is required of all Master of Architecture (Urban Transformation) students. The thesis consists of a comprehensive design project which will represent the synthesis and mastery of professional competencies, disciplinary knowledge, independent thinking, and critical reasoning skills through the development of an architectural proposition. Additionally, students will write an approximate 12500 word reflective exegesis. During UTTS1, students will work closely with academic staff and a professional/industry mentor to refine their thesis topic, develop a comprehensive literature review, identify precedents and communities of practice, create a project brief, conduct site analysis and pre-design evaluation through written and graphic representation. Students will spend an intensive block of time placed in a professional office setting as they develop their preliminary research. The work of UTTS1 will support completion of the thesis in their final semester of study, which shall culminate in an urban building proposal, or relevant research enquiry of demonstrated equivalence, that is developed to a significant degree of resolution in terms of spatial and experiential quality, contextual, cultural, social and environmental considerations, technical proficiency, and conceptual rigour.

301242.1 Urban Transformation Thesis Studio 2

Credit Points 20 **Level** 7

Prerequisite

301241.1 Urban Transformation Thesis Studio 1

Unit Enrolment Restrictions

Students must be enrolled in 3761 Master of Architecture (Urban Transformation)

Special Requirements - Essential Equipment

Laptop with required software, per course 3761 requirements. Students are required to purchase consumables such as paper, card, plastic, plywood, adhesives, blades, and other essential materials for assessment tasks. Students will also need to pay for their own plotting and printing costs.

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Urban Transformation Thesis Studio 2 (UTTS2) is the final postgraduate architecture and urban transformation design studio in the Masters sequence. UTTS2 is the culmination of the 2-semester thesis investigation that is required of all Master of Architecture (Urban Transformation) students. The thesis consists of a comprehensive design project which will represent the synthesis and mastery of professional competencies, disciplinary knowledge, independent thinking, and critical reasoning skills through the development of an architectural proposition. Additionally, students will write an approximate 12500 word reflective exegesis. During UTTS2, students will work closely with academic staff and a professional/industry mentor to independently resolve their design thesis topic as an architectural proposition that is attendant to professional, social, and environmental concerns, and through the written research document. Students will spend an intensive block of time placed in a professional office setting as they develop their design research proposition and/or writing. The work of UTTS2 shall culminate in an urban building proposal, or relevant research enquiry of demonstrated equivalence, that is developed to a significant degree of resolution in terms of spatial and experiential quality, contextual, cultural, social and environmental considerations, technical proficiency, and conceptual rigour.

301112.1 Visualisation

Credit Points 10 **Level** 7

Assumed Knowledge

Familiarity with computer software programs, such as Microsoft Office.

Incompatible Units

301109 Visual Analytics

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Access to a computer

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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.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Engineering program undertaking a Civil Engineering specialisation.

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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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course offered by the School of Computing, Engineering and Mathematics.

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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

Special Requirements - Essential Equipment

Access to a computer and Internet at home

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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 Western Sydney University 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.

Unit Enrolment Restrictions

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

Unit Enrolment Restrictions

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.

401086.1 Writing for Publication

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in postgraduate course and must have successfully completed 60 credit points at Level 7.

Special Requirements - Essential Equipment

Access to the internet and a computer

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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