

# Health and Science Schools

## Electronic Postgraduate Handbook 2017

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Western Sydney University

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Information contained in this electronic handbook is correct at the time of production (March 2017), unless otherwise noted.

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## About the Health and Science Schools Electronic Postgraduate Handbook

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### Sessions and dates

There are two main sessions in 2017: 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/2017\\_academic\\_year\\_dateline](https://www.westernsydney.edu.au/currentstudents/current_students/dates/2017_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](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 2017 at:

[http://handbook.westernsydney.edu.au/hbook/UNIT\\_SEARCH.ASP](http://handbook.westernsydney.edu.au/hbook/UNIT_SEARCH.ASP).

### Prerequisites, co-requisites and assumed knowledge

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

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

### Academic credit

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

### How to use this electronic book

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

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

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

### Check Website for Updates

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

<http://handbook.westernsydney.edu.au/hbook/>

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## SCHOOL OF MEDICINE

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### Master of Epidemiology

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#### 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 | Full Time  | Internal    |
| Parramatta Campus | Part Time  | Internal    |

#### Inherent requirements

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

#### Admission

##### Master of Epidemiology (160 credit points)

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

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

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

#### Course Structure

##### Pathways

|                |   |
|----------------|---|
| <b>A4013.1</b> | Master of Epidemiology - 1.5 year pathway |
| <b>A4012.1</b> | Master of Epidemiology - 2 year pathway   |

## Graduate Diploma in Epidemiology

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#### 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 | Full Time  | Internal    |
| Parramatta Campus | Part Time  | Internal    |

#### Inherent requirements

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

#### Admission

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

#### Course Structure

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

#### Pathway

##### Year 1

##### Autumn session

**401077.1** Introduction to Biostatistics

Choose one of

**401076.1** Introduction to Epidemiology  
**401173.1** Introduction to Clinical Epidemiology

And two alternate units from the pool below

##### Spring session

**401175.1** Analytic Approaches in Epidemiology

And three alternate units from the pool below



**Alternate units**

|                 |   |
|-----------------|---|
| <b>400967.2</b> | Health Economics and Comparative Health Systems       |
| <b>400840.3</b> | Communicable Diseases                                 |
| <b>401080.1</b> | Research Protocol Design and Practice                 |
| <b>400841.2</b> | A Global Perspective on Social Determinants of Health |
| <b>401174.1</b> | Epidemiology of Non-Communicable Diseases             |
| <b>401179.1</b> | Data Management and Programming for Epidemiology      |
| <b>401177.1</b> | Environmental Epidemiology                            |
| <b>401178.1</b> | Controversies in Epidemiology                         |
| <b>401176.1</b> | 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 | Full Time  | Internal    |
| Parramatta Campus | Part Time  | Internal    |

**Inherent requirements**

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

**Admission**

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

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

**Course Structure**

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

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

**401077.1** Introduction to Biostatistics

Choose one of

**401076.1** Introduction to Epidemiology

**401173.1** Introduction to Clinical Epidemiology

Choose two of

**400841.2** A Global Perspective on Social Determinants of Health

**401174.1** Epidemiology of Non-Communicable Diseases

**401179.1** Data Management and Programming for Epidemiology

**401177.1** Environmental Epidemiology

**Master of Medicine (Pathology)****4750.1**

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 two year program with 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.

**Study Mode**

Two years part-time.

**Location**

| Campus              | Attendance | Mode     |
|---------------------|------------|----------|
| Campbelltown Campus | Part Time  | Internal |

**Accreditation**

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

**Inherent requirements**

As a Masters program in Medicine provided as a composite course using existing facilities at School of Medicine building in Campbelltown campus, all inherent requirements for the MBBS course are also relevant.

**Admission**

Applicants must have

Completed MBBS or equivalent overseas degree in Medicine

And

Current employment in a supervised training position in Anatomical Pathology as approved by RCPA or equivalent overseas college.



For 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).

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.

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

### 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 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.

### Special Requirements

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

### Course Structure

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

#### Practicum units

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

#### Additional units

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

## Graduate Diploma in Cardiac Sonography

### 4743.1

This course is an Australian Sonographers Accreditation Registry (ASAR) approved graduate entry training program in cardiac sonography (echocardiography). It integrates online and on-campus learning activities with the students employed sonography practice. Students will develop

theoretical, practical and professional skills that are essential for the practice of cardiac sonography and for further professional development.

### Study Mode

Two years part time.

### Location

| Campus              | Attendance | Mode        |
|---------------------|------------|-------------|
| Campbelltown Campus | Part Time  | Multi Modal |

### Accreditation

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

### Inherent requirements

Inherent requirements are essential qualities which enable students to achieve the abilities, knowledge and skills required to complete the course. Approved documentation confirming that applicants meet the inherent requirements may be requested. Before applying, make sure that you read and understand the Inherent Requirements for Cardiac Sonography.

### 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 citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Those 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 by commencement of the course.

### Course Structure

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

#### Year 1

##### Autumn session

|                 |                                    |
|-----------------|------------------------------------|
| <b>401185.1</b> | Principles of Cardiac Sonography 1 |
| <b>401189.1</b> | Practice of Cardiac Sonography 1   |

##### Spring session

|                 |                                    |
|-----------------|------------------------------------|
| <b>401186.1</b> | Principles of Cardiac Sonography 2 |
| <b>401190.1</b> | Practice of Cardiac Sonography 2   |

#### Year 2

##### Autumn session

|                 |                                    |
|-----------------|------------------------------------|
| <b>401187.1</b> | Principles of Cardiac Sonography 3 |
| <b>401191.1</b> | Practice of Cardiac Sonography 3   |

##### Spring session

|                 |                                    |
|-----------------|------------------------------------|
| <b>401188.1</b> | Principles of Cardiac Sonography 4 |
| <b>401192.1</b> | Practice of Cardiac Sonography 4   |

## Graduate Certificate in Allergic Diseases

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### 4689.2

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

Please note: New students enrolling in 2017 will be required to undertake both course units (Allergic Sciences and Clinical Allergy) concurrently with a view to completing all course requirements in 12 months. An extension of up to six months will be considered for students requiring extra time to complete their clinical placement.

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

### Study Mode

One to Two years part-time.

### Location

| Campus              | Attendance | Mode     |
|---------------------|------------|----------|
| Campbelltown Campus | Part Time  | External |

### Admission

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

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

### Special Requirements

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

## Course Structure

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

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

Note: New students enrolling in 2017 will be required to undertake both course units (Allergic Sciences and Clinical Allergy) concurrently with a view to completing all course requirements in 12 months. An extension of up to six months will be considered for students requiring extra time to complete their clinical placement.

### Part-time (Start year intake)

#### Year 1

**401063.1** Allergic Sciences

#### Year 2

**401064.2** Clinical Allergy

## Specialisations

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### Postgraduate Admission Pathway - Master of Epidemiology - 2 year pathway

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#### A4012.1

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

#### Location

| Campus            | Mode     |
|-------------------|----------|
| Parramatta Campus | Internal |

#### Specialisation Structure

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

Applicants must have either an undergraduate degree (Level 7), or higher, in a health, welfare or aged care discipline  
OR

a graduate diploma or graduate certificate in a health, welfare or aged care discipline PLUS at least 3 years work experience in a health, welfare or aged care discipline.

#### Year 1

##### Autumn session

##### Core Units

**401077.1** Introduction to Biostatistics

Choose one of

**401076.1** Introduction to Epidemiology

**401173.1** Introduction to Clinical Epidemiology

##### Alternate units

Choose two of

**401179.1** Data Management and Programming for Epidemiology

**401174.1** Epidemiology of Non-Communicable Diseases

**400841.2** A Global Perspective on Social Determinants of Health

#### Spring session

##### Core Units

**401175.1** Analytic Approaches in Epidemiology

**401176.1** Statistical Methods in Epidemiology

##### Alternate Units

Choose two of

**400840.3** Communicable Diseases

**400967.2** Health Economics and Comparative Health Systems

**401080.1** Research Protocol Design and Practice

#### Year 2

##### Autumn session

Choose four of

**401179.1** Data Management and Programming for Epidemiology

**401174.1** Epidemiology of Non-Communicable Diseases

**401177.1** Environmental Epidemiology

**401178.1** Controversies in Epidemiology

**400841.2** A Global Perspective on Social Determinants of Health

**401080.1** Research Protocol Design and Practice

##### Spring session

**401079.1** Dissertation

##### Exit Awards

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

### Postgraduate Admission Pathway - Master of Epidemiology - 1.5 year pathway

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#### A4013.1

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

**Location**

| Campus            | Mode     |
|-------------------|----------|
| Parramatta Campus | Internal |

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

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

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

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

**401077.1** Introduction to Biostatistics

Choose one of

**401076.1** Introduction to Epidemiology

**401173.1** Introduction to Clinical Epidemiology

**Alternate Units**

Choose two of

**401179.1** Data Management and Programming for Epidemiology

**401174.1** Epidemiology of Non-Communicable Diseases

**400841.2** A Global Perspective on Social Determinants of Health

**401177.1** Environmental Epidemiology

**401178.1** Controversies in Epidemiology

**Spring session****Core Units**

**401175.1** Analytic Approaches in Epidemiology

**401176.1** Statistical Methods in Epidemiology

**Alternate Units**

Choose two of

**400840.3** Communicable Diseases

**400967.2** Health Economics and Comparative Health Systems

**401080.1** Research Protocol Design and Practice

**Year 2****Autumn session**

**401079.1** Dissertation

**Notes**

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

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

**Exit Awards**

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

## SCHOOL OF NURSING AND MIDWIFERY

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### Graduate Certificate in Acute and Critical Care Nursing

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#### 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 | Full Time  | Internal |
| Parramatta Campus | 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).

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.

|                 |  |
|-----------------|--|
| <b>400235.2</b> | Leadership in Clinical Practice                  |
| <b>401204.1</b> | Applied Clinical Practice using Simulation       |
| <b>400777.3</b> | Leadership for Quality and Safety in Health Care |

And one elective

### Master of Child and Family Health (Karitane)

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#### 4713.1

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

The Master of Child and Family Health (Karitane) aims to provide Registered Nurses and Registered Midwives with theoretical knowledge and associated skills that prepare them to work autonomously and across a variety of clinical settings with children and families. Graduates will be able to apply advanced nursing practice, concepts and analysis and lead nursing practice to promote optimal health outcomes for children and families. This will involve among other things, design, implementation and evaluation of advanced clinical nursing care systems, analysis and synthesis of nursing concepts leading to a basis for advanced nursing practice and the facilitation of change. Opportunities will be provided for students to undertake in-depth study into aspects of child and family health relevant to their specific areas of practice.

#### Study Mode

Three years part-time

#### Location

| Campus            | Attendance | Mode     |
|-------------------|------------|----------|
| Hawkesbury Campus | Part Time  | External |

#### Inherent requirements

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

#### Admission

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

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

And



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

And

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

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

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

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

### Course Structure

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

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

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

And two electives

\*See list of recommended elective units below

#### Choose one of

|                 |                                    |
|-----------------|------------------------------------|
| <b>401083.1</b> | Capstone Experience in Health Care |
| <b>401084.2</b> | Research Project in Health Care    |

#### Or choose two of

|                 |  |
|-----------------|--|
| <b>401086.1</b> | Writing for Publication                        |
| <b>401085.1</b> | Scholarship for Practice Change in Health Care |

### Recommended Elective Units

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

|                 |   |
|-----------------|---|
| <b>400834.1</b> | Advanced practice: Infant and Child feeding and Nutrition |
| <b>400835.1</b> | Infant Mental Health                                      |
| <b>401167.1</b> | Applied Research in Health Care                           |
| <b>400975.1</b> | Ethics in Health Research                                 |

### Graduate Diploma in Child and Family Health (Karitane)

#### 4714.1

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

The Graduate Diploma in Child & Family Health (Karitane) aims to provide Registered Nurses and Registered Midwives with theoretical knowledge and associated skills that prepare them to work autonomously and across a variety of clinical settings with children and families. Graduates will be able to apply advanced nursing practice, concepts and analysis and lead nursing practice to promote optimal health outcomes for children and families. Students who successfully complete this course may transfer into the Master of Child and Family Health (Karitane).

#### Study Mode

Two years part-time.

#### Location

| Campus            | Attendance | Mode     |
|-------------------|------------|----------|
| Hawkesbury Campus | Part Time  | External |

#### Inherent requirements

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

#### Admission

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

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

And

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

And

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

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

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

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

### Course Structure

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

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

### Recommended Sequence

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

And one elective

## Graduate Certificate in Child and Family Health (Karitane)

### 4715.1

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

The Graduate Certificate in Child & Family Health (Karitane) aims to provide Registered Nurses and Registered Midwives with theoretical knowledge and associated skills that prepare them to work autonomously and across a variety of clinical settings with children and families. Graduates will be able to apply advanced nursing concepts and analysis to promote optimal health outcomes for children and families. Students who successfully

complete this course may transfer into the Graduate Diploma in Child and Family Health (Karitane).

### Study Mode

One year part-time.

### Location

| Campus            | Attendance Mode    |
|-------------------|--------------------|
| Hawkesbury Campus | Part Time External |

### Inherent requirements

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

### Admission

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

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

And

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

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

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

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

### Course Structure

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

|                 |   |
|-----------------|---|
| <b>400971.1</b> | Child and Family Health: Professional Practice and Frameworks       |
| <b>400972.2</b> | Child and Family Health Practice: Supporting Growth and Development |
| <b>400830.3</b> | Clinical Practice: Infant and Child Nutrition and Feeding           |
| <b>400831.2</b> | Healthy Families and Communities                                    |

## Master of Mental Health Nursing

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### 4719.1

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

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

### Study Mode

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

### Location

#### Campus Attendance Mode

Online Full Time Multi Modal

Online Part Time Multi Modal

### Inherent requirements

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

### Admission

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

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

And

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

And

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

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

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

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the

Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to the University should also use the information provided on the UAC website.

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

### Course Structure

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

|                 |   |
|-----------------|---|
| <b>400217.3</b> | Mental Health Assessment and Application  |
| <b>400218.2</b> | Mental Health Nursing Practice 1  |
| <b>400219.3</b> | Mental Health Nursing Practice 2  |
| <b>400220.2</b> | Contemporary Professional Practice in Mental Health Nursing                         |
| <b>401168.1</b> | Evidence Based Health Care  |
| <b>401139.1</b> | Clinical Supervision in Health Care   |
| <b>400957.4</b> | Biological Considerations in Mental Health and Mental Illness for Advanced Practice |
| <b>400858.3</b> | Psychopharmacology for Advanced Practice Mental Health Nurses                       |

And two electives

#### And choose one of

|                 |                                    |
|-----------------|------------------------------------|
| <b>401083.1</b> | Capstone Experience in Health Care |
| <b>401084.2</b> | Research Project in Health Care    |

#### Or choose two of

|                 |  |
|-----------------|--|
| <b>401085.1</b> | Scholarship for Practice Change in Health Care |
| <b>401086.1</b> | Writing for Publication                        |

## Graduate Diploma in Mental Health Nursing

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### 4720.1

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

The course aims to produce a graduate who can practise mental health nursing skilfully and within ethical and legal boundaries, and who can think abstractly and critically. The course encourages critical examination of issues such as mental health nursing knowledge, the evidence-based perspective of practice, the measurement of outcomes and the consumer movement. Issues include learning how to use the self therapeutically, relationships with clients, understanding the experience of people who have mental illnesses, disorders and crises. Students who successfully complete this course may transfer into the Master of Mental Health Nursing.

### Study Mode

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

**Location****Campus Attendance Mode**

Online Full Time Multi Modal

Online Part Time Multi Modal

**Inherent requirements**

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

**Admission**

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

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

And

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

Or

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

And

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

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

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

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

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

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

**Course Structure**

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

|                 |   |
|-----------------|---|
| <b>400217.3</b> | Mental Health Assessment and Application                    |
| <b>400218.2</b> | Mental Health Nursing Practice 1                            |
| <b>400219.3</b> | Mental Health Nursing Practice 2                            |
| <b>400220.2</b> | Contemporary Professional Practice in Mental Health Nursing |

|                 |   |
|-----------------|---|
| <b>401168.1</b> | Evidence Based Health Care  |
| <b>401139.1</b> | Clinical Supervision in Health Care   |
| <b>400957.4</b> | Biological Considerations in Mental Health and Mental Illness for Advanced Practice |

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

**Inherent requirements**

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

**Admission**

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

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

And

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

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

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

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



International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to the University should also use the information provided on the UAC website.

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

## Course Structure

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

|                 |   |
|-----------------|---|
| <b>400217.3</b> | Mental Health Assessment and Application                    |
| <b>400218.2</b> | Mental Health Nursing Practice 1                            |
| <b>400219.3</b> | Mental Health Nursing Practice 2                            |
| <b>400220.2</b> | Contemporary Professional Practice in Mental Health Nursing |

## Master of Mental Health Nursing (Nurse Practitioner)

### 4673.3

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

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

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

### Study Mode

Four years part-time.

### Location

| Campus            | Attendance Mode    |
|-------------------|--------------------|
| Parramatta Campus | Part Time External |

### Accreditation

The Master of Mental Health Nursing (Nurse Practitioner) was initially accredited by the Nursing and Midwifery Board of Australia (NMBA). From 1st July 2010 the approval, recognition and accreditation of courses has been

transferred to the Australian Nursing and Midwifery Accreditation Council (ANMAC). Course accreditation can be checked on their website. [Http://www.nursingmidwiferyboard.gov.au/Accreditation.aspx](http://www.nursingmidwiferyboard.gov.au/Accreditation.aspx)

### Inherent requirements

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

### Admission

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

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

Successful applicants will need to arrange the following:

- Submission to the University of evidence of current clinical practice in an advanced clinical role in mental health, confirmed via 2 referee reports and
- Access to complete clinical experience in a mental health setting (as approved by the School 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).

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

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

### Course Structure

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

## Recommended Sequence

### Year 1

#### Autumn session

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

#### Spring session

- 400235.2** Leadership in Clinical Practice

And one elective (for Nurse Practitioner role development)

### Year 2

#### Autumn session

- 400238.3** Policy, Power and Politics in Health Care Provision

And one elective (for Nurse Practitioner role development)

#### Spring session

- 400777.3** Leadership for Quality and Safety in Health Care  
**400957.4** Biological Considerations in Mental Health and Mental Illness for Advanced Practice

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

### Year 3

#### Autumn session

- 400228.3** Assessment for Advanced Practice Mental Health Nurses

And one elective (for Speciality Mental Health)

#### Spring session

- 400858.3** Psychopharmacology for Advanced Practice Mental Health Nurses

And one elective (for Speciality Mental Health)

### Year 4

#### Autumn session

- 400859.2** Advanced Mental Health Nursing Clinical Practice 1

#### Spring session

- 400860.2** Advanced Mental Health Nursing Clinical Practice 2

## Graduate Diploma in Midwifery

### 4697.1

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

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

### Study Mode

Fifteen months full-time.

### Location

| Campus            | Attendance | Mode     |
|-------------------|------------|----------|
| Parramatta Campus | Full Time  | Internal |

### Accreditation

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

### Admission

1. Registered Nurse (currently registered with the Australian Health Practitioner Regulation Agency – Nursing and Midwifery)
2. A clinical placement is required to be secured in an approved maternity hospital. The student is responsible for the application and securing of a position as a midwifery student in one of the approved hospitals. Recruitment of student midwives occurs during July through a centralised online process

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

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

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



## Course Structure

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

## Recommended Sequence

### Year 1

#### Summer B 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

#### Quarter 1 session

- 401094.1** Midwifery Practice 3

## 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    |
| Kiang Wu College of Nursing, Macau | Part Time  | Internal    |
| Online                             | Full Time  | Multi Modal |
| Online                             | Part Time  | Multi Modal |
| Parramatta Campus                  | Full Time  | Internal    |
| Parramatta Campus                  | Part Time  | Internal    |
| Parkway College, Singapore         | Part Time  | Internal    |

## Inherent requirements

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

## Admission

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

### 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).

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    |
| Kiang Wu College of Nursing, Macau | Part Time  | Internal    |
| Online                             | Full Time  | Multi Modal |
| Online                             | Part Time  | Multi Modal |
| Parkway College, Singapore         | Part Time  | Internal    |

### Admission

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

### 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.

#### 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).

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).

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.

|                 |  |
|-----------------|--|
| <b>401082.1</b> | Cultural and Social Diversity in Health Care |
| <b>400774.2</b> | Perspectives on Nursing                      |
| <b>401168.1</b> | Evidence Based Health Care                   |
| <b>400235.2</b> | Leadership in Clinical Practice              |

**Graduate Diploma in Nursing Leadership (Mental Health) (exit only)****4734.1**

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

**Study Mode**

Two years part-time.

**Location****Campus Attendance Mode**

Parramatta Campus Part Time External

**Course Structure**

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

**Recommended Sequence****Year 1****Autumn session**

|                 |   |
|-----------------|---|
| <b>400220.2</b> | Contemporary Professional Practice in Mental Health Nursing |
| <b>401168.1</b> | Evidence Based Health Care                                  |

**Spring session**

|                 |                                 |
|-----------------|---------------------------------|
| <b>400235.2</b> | Leadership in Clinical Practice |
|-----------------|---------------------------------|

And one elective (for Nurse Practitioner role development)

**Year 2****Autumn session**

|                 |   |
|-----------------|---|
| <b>400238.3</b> | Policy, Power and Politics in Health Care Provision |
|-----------------|---|

And one elective (for Nurse Practitioner role development)

**Spring session**

|                 |   |
|-----------------|---|
| <b>400777.3</b> | Leadership for Quality and Safety in Health Care                                    |
| <b>400957.4</b> | Biological Considerations in Mental Health and Mental Illness for Advanced Practice |

**Master of Nursing (Professional Studies)****4735.1**

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

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

**Study Mode**

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



**Location**

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

**Admission**

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

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

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

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

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

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

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

**Course Structure**

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

|                 |  |
|-----------------|--|
| <b>401082.1</b> | Cultural and Social Diversity in Health Care |
| <b>400412.3</b> | Primary Health Care and its Applications     |
| <b>400241.3</b> | Supporting Aged Communities                  |

And one elective

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

|                 |                                |
|-----------------|--------------------------------|
| <b>400773.4</b> | Mental Health for Communities  |
| <b>401168.1</b> | Evidence Based Health Care     |
| <b>400210.2</b> | Health Promotion and the Nurse |

And one elective

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

|                 |   |
|-----------------|---|
| <b>400235.2</b> | Leadership in Clinical Practice                     |
| <b>400238.3</b> | Policy, Power and Politics in Health Care Provision |

|                 |  |
|-----------------|--|
| <b>400774.2</b> | Perspectives on Nursing                          |
| <b>400777.3</b> | Leadership for Quality and Safety in Health Care |

And two electives

**Capstone Unit (20 credit points)**

|                 |                                    |
|-----------------|------------------------------------|
| <b>401083.1</b> | Capstone Experience in Health Care |
|-----------------|------------------------------------|

**Graduate Diploma in Nursing (Professional Studies) (exit only)****4736.1**

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

**Study Mode**

One year full time or two years part-time.

**Location**

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

**Course Structure**

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

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

And two electives

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

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

**Study Mode**

Six months full time or one year part-time.

**Location**

| Campus            | Attendance | Mode     |
|-------------------|------------|----------|
| Parramatta Campus | Full Time  | External |

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

### Course Structure

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

|                 |  |
|-----------------|--|
| <b>401082.1</b> | Cultural and Social Diversity in Health Care |
| <b>400412.3</b> | Primary Health Care and its Applications     |
| <b>400241.3</b> | Supporting Aged Communities                  |

And one elective

### Master of Primary Health Care

#### 4694.1

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

This course aims to provide the opportunity for health, and other professionals with primary health care responsibilities to gain knowledge and understanding of primary health care that will enable leadership in this field. The course provides a focus on the knowledge and behaviour required to be a primary health care provider in a changing community environment. Opportunities will be provided for students to undertake in-depth study into aspects of primary health care that are relevant to their specific areas of work/practice.

### Study Mode

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

### Location

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

### Inherent requirements

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

### Admission

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

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

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

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

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

### Course Structure

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

|                 |  |
|-----------------|--|
| <b>400412.3</b> | Primary Health Care and its Applications             |
| <b>401082.1</b> | Cultural and Social Diversity in Health Care         |
| <b>400836.2</b> | Health Promotion: A Primary Health Care Approach     |
| <b>400856.2</b> | Approaches to Epidemiology                           |
| <b>400838.1</b> | Supporting Individuals and Communities in Crisis     |
| <b>400773.4</b> | Mental Health for Communities                        |
| <b>400837.3</b> | Health and Socio-political Issues in Aged Care       |
| <b>400414.2</b> | Leadership and Change                                |
| <b>400839.1</b> | Collaborative Inquiry for Primary Health Care Action |

And one elective

#### And choose one of

|                 |                                    |
|-----------------|------------------------------------|
| <b>401083.1</b> | Capstone Experience in Health Care |
| <b>401084.2</b> | Research Project in Health Care    |

#### Or choose two of

|                 |  |
|-----------------|--|
| <b>401085.1</b> | Scholarship for Practice Change in Health Care |
| <b>401086.1</b> | Writing for Publication                        |

### Graduate Diploma in Primary Health Care

#### 4695.1

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

This course aims to provide the opportunity for health, and other professionals with primary health care responsibilities to gain knowledge and understanding of primary health care that will enable leadership in this field. The course provides a focus on the knowledge and behaviour required to be a primary health care provider in a changing community environment. Key knowledge areas include primary health care principles and application, health promotion, and strategies to support individuals and communities. Students who successfully complete this course may transfer into the Master of Primary Health Care.



**Study Mode**

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

**Location****Campus Attendance Mode**

Online Full Time Multi Modal

Online Part Time Multi Modal

**Inherent requirements**

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

**Admission**

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

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

And

3 years FTE professional work experience in the health sector.

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

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

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

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

**Course Structure**

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

|                 |  |
|-----------------|--|
| <b>400412.3</b> | Primary Health Care and its Applications         |
| <b>401082.1</b> | Cultural and Social Diversity in Health Care     |
| <b>400836.2</b> | Health Promotion: A Primary Health Care Approach |
| <b>400856.2</b> | Approaches to Epidemiology                       |
| <b>400838.1</b> | Supporting Individuals and Communities in Crisis |
| <b>400773.4</b> | Mental Health for Communities                    |
| <b>400837.3</b> | Health and Socio-political Issues in Aged Care   |

And one elective

**Graduate Certificate in Primary Health Care****4696.1**

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

This course aims to provide the opportunity for health, and other professionals with primary health care responsibilities to gain knowledge and understanding of primary health care that will enable leadership in this field. The course provides a focus on the knowledge and behaviour required to be a primary health care provider in a changing community environment. Key knowledge areas include primary health care principles and application and health promotion. Students who successfully complete this course may transfer into the Graduate Diploma in Primary Health Care.

**Study Mode**

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

**Location****Campus Attendance Mode**

Online Full Time Multi Modal

Online Part Time Multi Modal

**Admission**

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

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

and

3 years FTE professional work experience in the health sector.

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

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

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

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

### Course Structure

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

- 400412.3** Primary Health Care and its Applications
- 401082.1** Cultural and Social Diversity in Health Care
- 400836.2** Health Promotion: A Primary Health Care Approach
- 400856.2** Approaches to Epidemiology

## Specialisations

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

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**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

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

And three electives

##### And choose one of

|                 |                                    |
|-----------------|------------------------------------|
| <b>401083.1</b> | Capstone Experience in Health Care |
| <b>401084.2</b> | Research Project in Health Care    |

##### or choose two of

|                 |  |
|-----------------|--|
| <b>401085.1</b> | Scholarship for Practice Change in Health Care |
| <b>401086.1</b> | Writing for Publication                        |

### Postgraduate Admission Pathway - Master of Nursing (No Specialisation) - 1 year pathway

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**A4015.1**

#### Specialisation Structure

##### 1 year Pathway

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

|                 |  |
|-----------------|--|
| <b>401082.1</b> | Cultural and Social Diversity in Health Care |
| <b>400774.2</b> | Perspectives on Nursing                      |
| <b>401168.1</b> | Evidence Based Health Care                   |
| <b>400235.2</b> | Leadership in Clinical Practice              |
| <b>400412.3</b> | Primary Health Care and its Applications     |

And one elective

##### Choose one of

|                 |                                    |
|-----------------|------------------------------------|
| <b>401083.1</b> | Capstone Experience in Health Care |
| <b>401084.2</b> | Research Project in Health Care    |

##### or choose two of

|                 |  |
|-----------------|--|
| <b>401085.1</b> | Scholarship for Practice Change in Health Care |
| <b>401086.1</b> | Writing for Publication                        |

### Postgraduate Admission Pathway - Master of Nursing (Clinical Leadership) - 1.5 year pathway

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**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

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

And three electives

##### And choose one of

|                 |                                    |
|-----------------|------------------------------------|
| <b>401083.1</b> | Capstone Experience in Health Care |
| <b>401084.2</b> | Research Project in Health Care    |

##### or choose two of

|                 |  |
|-----------------|--|
| <b>401085.1</b> | Scholarship for Practice Change in Health Care |
| <b>401086.1</b> | Writing for Publication                        |

### Postgraduate Admission Pathway - Master of Nursing (Clinical Leadership) - 1 year pathway

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**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

|                 |  |
|-----------------|--|
| <b>401082.1</b> | Cultural and Social Diversity in Health Care     |
| <b>401168.1</b> | Evidence Based Health Care                       |
| <b>400235.2</b> | Leadership in Clinical Practice                  |
| <b>400846.3</b> | Building Organisational Capacity in Health Care  |
| <b>400777.3</b> | Leadership for Quality and Safety in Health Care |

And one elective

#### And choose one of

|                 |                                    |
|-----------------|------------------------------------|
| <b>401083.1</b> | Capstone Experience in Health Care |
| <b>401084.2</b> | Research Project in Health Care    |

#### or choose two of

|                 |  |
|-----------------|--|
| <b>401085.1</b> | Scholarship for Practice Change in Health Care |
| <b>401086.1</b> | Writing for Publication                        |

## Postgraduate Admission Pathway - Master of Nursing (Clinical Teaching) - 1.5 year pathway

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### 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

|                 |   |
|-----------------|---|
| <b>401082.1</b> | Cultural and Social Diversity in Health Care        |
| <b>400774.2</b> | Perspectives on Nursing                             |
| <b>401168.1</b> | Evidence Based Health Care                          |
| <b>400238.3</b> | Policy, Power and Politics in Health Care Provision |
| <b>400235.2</b> | Leadership in Clinical Practice                     |

|                 |  |
|-----------------|--|
| <b>400973.1</b> | Clinical Teaching and Professional Development |
| <b>400974.1</b> | Clinical Teaching for Learning                 |

And three electives

#### And choose one of

|                 |                                    |
|-----------------|------------------------------------|
| <b>401083.1</b> | Capstone Experience in Health Care |
| <b>401084.2</b> | Research Project in Health Care    |

#### or choose two of

|                 |  |
|-----------------|--|
| <b>401085.1</b> | Scholarship for Practice Change in Health Care |
| <b>401086.1</b> | Writing for Publication                        |

## Postgraduate Admission Pathway - Master of Nursing (Clinical Teaching) - 1 year pathway

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### 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

|                 |  |
|-----------------|--|
| <b>401082.1</b> | Cultural and Social Diversity in Health Care   |
| <b>401168.1</b> | Evidence Based Health Care                     |
| <b>400235.2</b> | Leadership in Clinical Practice                |
| <b>400973.1</b> | Clinical Teaching and Professional Development |
| <b>400974.1</b> | Clinical Teaching for Learning                 |

And one elective

#### And choose one of

|                 |                                    |
|-----------------|------------------------------------|
| <b>401083.1</b> | Capstone Experience in Health Care |
| <b>401084.2</b> | Research Project in Health Care    |

#### or choose two of

|                 |  |
|-----------------|--|
| <b>401085.1</b> | Scholarship for Practice Change in Health Care |
| <b>401086.1</b> | Writing for Publication                        |

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

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### 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

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

And three electives

#### And choose one of

|          |                                    |
|----------|------------------------------------|
| 401083.1 | 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                        |

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

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### 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                     |
| 400235.2 | Leadership in Clinical Practice                |
| 400837.3 | Health and Socio-political Issues in Aged Care |
| 400241.3 | Supporting Aged Communities                    |

And one elective

#### And choose one of

|          |                                    |
|----------|------------------------------------|
| 401083.1 | 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                        |

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

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### 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

|          |   |
|----------|---|
| 401082.1 | Cultural and Social Diversity in Health Care        |
| 400774.2 | Perspectives on Nursing                             |
| 401168.1 | Evidence Based Health Care                          |
| 400238.3 | Policy, Power and Politics in Health Care Provision |
| 400412.3 | Primary Health Care and its Applications            |
| 400836.2 | Health Promotion: A Primary Health Care Approach    |
| 400856.2 | Approaches to Epidemiology                          |

And three electives

#### And choose one of

|          |                                    |
|----------|------------------------------------|
| 401083.1 | Capstone Experience in Health Care |
|----------|------------------------------------|

**401084.2** Research Project in Health Care

member of a research team or seek admission to a higher degree research program.

or choose two of

**401085.1** Scholarship for Practice Change in Health Care

**401086.1** Writing for Publication

### Postgraduate Admission Pathway - Master of Nursing (Primary Health Care) - 1 year pathway

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#### 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

**401082.1** Cultural and Social Diversity in Health Care  
**401168.1** Evidence Based Health Care  
**400412.3** Primary Health Care and its Applications  
**400836.2** Health Promotion: A Primary Health Care Approach  
**400856.2** Approaches to Epidemiology

And one elective

And choose one of

**401083.1** 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

### Postgraduate Admission Pathway - Master of Nursing (Research Studies) - 1.5 year pathway

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#### 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

#### Specialisation Structure

##### 1.5 year Pathway

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

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

And three electives

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

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#### 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

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

And one elective



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

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**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.

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

And two electives

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

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**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.

|                 |  |
|-----------------|--|
| <b>401082.1</b> | Cultural and Social Diversity in Health Care |
| <b>400774.2</b> | Perspectives on Nursing                      |
| <b>401168.1</b> | Evidence Based Health Care                   |
| <b>400235.2</b> | Leadership in Clinical Practice              |
| <b>400412.3</b> | Primary Health Care and its Applications     |

And one elective

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

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**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.

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

And one elective

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

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**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.

|                 |   |
|-----------------|---|
| <b>401082.1</b> | Cultural and Social Diversity in Health Care        |
| <b>401168.1</b> | Evidence Based Health Care                          |
| <b>400238.3</b> | Policy, Power and Politics in Health Care Provision |
| <b>400235.2</b> | Leadership in Clinical Practice                     |
| <b>400846.3</b> | Building Organisational Capacity in Health Care     |
| <b>400777.3</b> | Leadership for Quality and Safety in Health Care    |

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

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**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.

|                 |   |
|-----------------|---|
| <b>400973.1</b> | Clinical Teaching and Professional Development      |
| <b>400974.1</b> | Clinical Teaching for Learning                      |
| <b>400774.2</b> | Perspectives on Nursing                             |
| <b>401168.1</b> | Evidence Based Health Care                          |
| <b>401082.1</b> | Cultural and Social Diversity in Health Care        |
| <b>400235.2</b> | Leadership in Clinical Practice                     |
| <b>400238.3</b> | 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

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### 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.

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

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

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### 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.

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

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

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### 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.

|                 |  |
|-----------------|--|
| <b>401082.1</b> | Cultural and Social Diversity in Health Care   |
| <b>401168.1</b> | Evidence Based Health Care                     |
| <b>400235.2</b> | Leadership in Clinical Practice                |
| <b>400837.3</b> | Health and Socio-political Issues in Aged Care |

- 400846.3** Building Organisational Capacity in Health Care  
**400241.3** Supporting Aged Communities

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

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#### 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.

- 400238.3** Policy, Power and Politics in Health Care Provision  
**400412.3** Primary Health Care and its Applications  
**400836.2** Health Promotion: A Primary Health Care Approach  
**400856.2** Approaches to Epidemiology  
**401082.1** Cultural and Social Diversity in Health Care  
**401168.1** Evidence Based Health Care  
**400774.2** Perspectives on Nursing

And one elective

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

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#### 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.

- 401082.1** Cultural and Social Diversity in Health Care

- 401168.1** Evidence Based Health Care  
**400238.3** Policy, Power and Politics in Health Care Provision  
**400412.3** Primary Health Care and its Applications  
**400836.2** Health Promotion: A Primary Health Care Approach  
**400856.2** Approaches to Epidemiology

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

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#### 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.

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

And one elective

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

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#### 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.

|                 |  |
|-----------------|--|
| <b>401082.1</b> | Cultural and Social Diversity in Health Care   |
| <b>400235.2</b> | Leadership in Clinical Practice                |
| <b>401168.1</b> | Evidence Based Health Care                     |
| <b>401167.1</b> | Applied Research in Health Care                |
| <b>400975.1</b> | Ethics in Health Research                      |
| <b>401085.1</b> | 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.

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

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

who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to Western Sydney University should also use the information provided on the UAC website.

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

#### Course Structure

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

#### Recommended Sequence

##### Part-time - Start Year Intake

###### Year 1

###### Autumn session

**301065.1** Advanced Routing

###### Spring session

**301066.1** Multilayer Switching

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

###### Year 2

###### Autumn session

**301067.1** Optimising Networks

###### Spring session

**301068.1** Network Security

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

###### Year 3

###### Autumn session

**301055.1** Research Project A

###### Spring session

**301056.1** 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****301055.1** Research Project A**Year 4****Autumn session****301056.1** 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 associate diploma in computing, information systems, information and communication technology or software engineering with a minimum credit average (GPA = 5) or higher.

Or

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

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

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

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

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

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

**Course Structure**

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

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

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

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course was 2016 or later.

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

As a Cisco Academy, Western Sydney University can offer students the opportunity to study the Cisco Certified Network Professional (CCNP) programme using the latest CCNP curriculum. The Graduate Certificate course will provide students with the knowledge and understanding of advanced switching and routing technologies. Students will be provided with hands-on experience of configuring networks using online tools. On completion of this graduate certificate students will be able to go on and gain the industry recognised certification by taking the CCNP

examinations. Students may also choose to continue their studies and pursue two more units to gain a Graduate Diploma in Advanced Networking that will enable them to gain the industry recognised certification that will enable them to gain the industry recognised certification.

**Study Mode**

One year part-time

**Location****Campus Attendance Mode**

Online Part Time Multi Modal

**Admission**

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

Or

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

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

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

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

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

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

**Course Structure**

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

**Recommended Sequence****Part-time - Start Year Intake****Year 1****Autumn session****301065.1** Advanced Routing

**Spring session****301066.1** Multilayer Switching**Part-time - Mid Year Intake****Year 1****Spring session****301066.1** Multilayer Switching**Year 2****Autumn session****301065.1** Advanced Routing**Master of Building Surveying****3703.2**

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course was 2016 or later.

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

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

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

**Study Mode**

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

**Location**

| Campus            | Attendance | Mode     |
|-------------------|------------|----------|
| Parramatta Campus | Part Time  | External |

**Accreditation**

The course is recognised by NSW Building Professionals Board (BPB) 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.

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

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

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

**Course Structure**

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

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

**300708.4** Planning and Development Control  
**300713.3** Building Engineering

**Autumn session**

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

**Spring session**

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

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

**301104.1** Professional Practice and Building Law

**Autumn session**

**300716.3** Building Studies

**300947.2** Building Regulations

**Quarter 3 session**

**301050.1** Disaster and Emergency Management (PG)

**Spring session**

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

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

**Year 3**

**Autumn session**

**300597.4** Master Project 1  
**301004.1** Research Preparation in Post Graduate Studies

**Spring session**

**300598.5** Master Project 2

And one elective

**Autumn intake**

**Year 1**

**Autumn session**

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

**Spring session**

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

**Summer session**

**300708.4** Planning and Development Control  
**300713.3** Building Engineering

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

**Year 2**

**Autumn session**

**300716.3** Building Studies  
**300947.2** Building Regulations

**Quarter 3 session**

**301050.1** Disaster and Emergency Management (PG)

**Spring session**

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

**Summer session**

**301104.1** Professional Practice and Building Law

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

**Year 3**

**Autumn session**

**300597.4** Master Project 1  
**301004.1** Research Preparation in Post Graduate Studies

**Spring session**

**300598.5** Master Project 2

And one elective

**Spring intake**

**Year 1**

**Spring session**

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

**Summer session**

**300708.4** Planning and Development Control  
**300713.3** Building Engineering

**Year 2**

**Autumn session**

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

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

**Quarter 3 session**

**301050.1** Disaster and Emergency Management (PG)

**Spring session**

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

**Summer session**

**301104.1** Professional Practice and Building Law

**Year 3**

**Autumn session**

**300716.3** Building Studies  
**300947.2** Building Regulations

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

|                 |   |
|-----------------|---|
| <b>300597.4</b> | Master Project 1                              |
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |

**Year 4****Autumn session**

|                 |                  |
|-----------------|------------------|
| <b>300598.5</b> | Master Project 2 |
|-----------------|------------------|

And one elective

**Graduate Diploma in Building Surveying****3704.2**

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course was 2016 or later.

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

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

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

**Study Mode**

Two years part-time.

**Location**

| Campus            | Attendance | Mode     |
|-------------------|------------|----------|
| Parramatta Campus | Part Time  | External |

**Accreditation**

The course is recognised by NSW Building Professionals Board (BPB) 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 PLUS at least four years full-time equivalent professional work experience in the relevant fields in the building industry or local government.

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

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

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

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

**Course Structure**

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

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

|                 |                                  |
|-----------------|----------------------------------|
| <b>300708.4</b> | Planning and Development Control |
| <b>300713.3</b> | Building Engineering             |

**Autumn session**

|                 |   |
|-----------------|---|
| <b>300948.2</b> | Fire Technology and Engineering Principles                |
| <b>301103.1</b> | Interpreting Building Regulations (Residential Buildings) |

**Spring session**

|                 |                            |
|-----------------|----------------------------|
| <b>300711.3</b> | Building Fire Services     |
| <b>300717.3</b> | Egress and Risk Assessment |



**Students may exit at this point with a Graduate Certificate in Building Surveying (60 credit points)****Year 2****Summer session****301104.1** Professional Practice and Building Law**Autumn session****300716.3** Building Studies  
**300947.2** Building Regulations**Quarter 3 session****301050.1** Disaster and Emergency Management (PG)**Spring session****300718.3** Fire Engineering Design and Assessment  
**200458.3** Building in Bushfire Prone Areas**Autumn intake****Year 1****Autumn session****300948.2** Fire Technology and Engineering Principles  
**301103.1** Interpreting Building Regulations (Residential Buildings)**Spring session****300711.3** Building Fire Services  
**300717.3** Egress and Risk Assessment**Summer session****300708.4** Planning and Development Control  
**300713.3** Building Engineering**Students may exit at this point with a Graduate Certificate in Building Surveying (60 credit points)****Year 2****Autumn session****300716.3** Building Studies  
**300947.2** Building Regulations**Quarter 3 session****301050.1** Disaster and Emergency Management (PG)**Spring session****300718.3** Fire Engineering Design and Assessment  
**200458.3** Building in Bushfire Prone Areas**Summer session****301104.1** Professional Practice and Building Law**Spring intake****Year 1****Spring session****300711.3** Building Fire Services  
**300717.3** Egress and Risk Assessment**Year 2****Summer session****300708.4** Planning and Development Control  
**300713.3** Building Engineering**Autumn session****300948.2** Fire Technology and Engineering Principles  
**301103.1** Interpreting Building Regulations (Residential Buildings)**Students may exit at this point with a Graduate Certificate in Building Surveying (60 credit points)****Quarter 3 session****301050.1** Disaster and Emergency Management (PG)**Spring session****300718.3** Fire Engineering Design and Assessment  
**200458.3** Building in Bushfire Prone Areas**Year 3****Summer session****301104.1** Professional Practice and Building Law**Autumn session****300716.3** Building Studies  
**300947.2** Building Regulations**Graduate Certificate in Building Surveying****3712.2**

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course was 2016 or later.

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

This one year part-time Graduate Certificate program which aims to provide students with the knowledge and basic skills to develop, assess and evaluate building solutions for built environment. The course enables students to understand principles; planning and development control, sustainability and other fundamental issues relating to basic

fire technology and engineering that are applicable to building surveying practice. This course covers the interpretation building laws, building regulations and associated Australian Standards relating to the built environment for low-rise buildings. Satisfactory completion of this course establishes a pathway to advanced qualification at the Graduate Diploma level.

### Study Mode

One year part-time

### Location

| Campus            | Attendance Mode    |
|-------------------|--------------------|
| Parramatta Campus | Part Time External |

### Admission

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

OR

Diploma in any discipline AND 4 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 citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

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

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

### Course Structure

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

### Recommended Sequence

#### Summer intake

##### Year 1

##### Summer session

|                 |                                  |
|-----------------|----------------------------------|
| <b>300708.4</b> | Planning and Development Control |
| <b>300713.3</b> | Building Engineering             |

##### Autumn session

|                 |   |
|-----------------|---|
| <b>300948.2</b> | Fire Technology and Engineering Principles                |
| <b>301103.1</b> | Interpreting Building Regulations (Residential Buildings) |

#### Spring session

|                 |                            |
|-----------------|----------------------------|
| <b>300711.3</b> | Building Fire Services     |
| <b>300717.3</b> | Egress and Risk Assessment |

#### Autumn intake

##### Year 1

##### Autumn session

|                 |   |
|-----------------|---|
| <b>300948.2</b> | Fire Technology and Engineering Principles                |
| <b>301103.1</b> | Interpreting Building Regulations (Residential Buildings) |

#### Spring session

|                 |                            |
|-----------------|----------------------------|
| <b>300711.3</b> | Building Fire Services     |
| <b>300717.3</b> | Egress and Risk Assessment |

#### Summer session

|                 |                                  |
|-----------------|----------------------------------|
| <b>300708.4</b> | Planning and Development Control |
| <b>300713.3</b> | Building Engineering             |

#### Spring intake

##### Year 1

##### Spring session

|                 |                            |
|-----------------|----------------------------|
| <b>300711.3</b> | Building Fire Services     |
| <b>300717.3</b> | Egress and Risk Assessment |

#### Summer session

|                 |                                  |
|-----------------|----------------------------------|
| <b>300708.4</b> | Planning and Development Control |
| <b>300713.3</b> | Building Engineering             |

##### Year 2

##### Autumn session

|                 |   |
|-----------------|---|
| <b>300948.2</b> | Fire Technology and Engineering Principles                |
| <b>301103.1</b> | Interpreting Building Regulations (Residential Buildings) |

### Master of Bushfire Protection

#### 3708.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course was 2016 or later.

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

This three-year part-time Master's program provides students with an understanding of the behaviour and danger of bushfires. Students will gain the knowledge of the relevant planning provisions, building regulations,

standards and emergency management arrangements for bushfire protection. Graduates will be able to conduct risk assessments, provide advice on developments in bushfire prone areas and develop alternative engineering design solutions. Graduates will also acquire the skill to independently conduct research to address contemporary issues faced by the building industry in bush fire prone areas.

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

### Study Mode

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

### Location

| Campus            | Attendance Mode    |
|-------------------|--------------------|
| Parramatta Campus | Part Time External |

### Accreditation

Accreditation by Fire Protection Association Australia is currently being sought.

### Admission

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

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

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

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

### Course Structure

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

## Recommended Sequence

### Summer intake

#### Year 1

##### Summer session

|                 |                                  |
|-----------------|----------------------------------|
| <b>300708.4</b> | Planning and Development Control |
| <b>200500.3</b> | Bushfire Fighting                |

##### Autumn session

|                 |   |
|-----------------|---|
| <b>200457.4</b> | Bushfire Behaviour  |
| <b>301103.1</b> | Interpreting Building Regulations (Residential Buildings) |

##### Spring session

|                 |                                   |
|-----------------|-----------------------------------|
| <b>301049.1</b> | Planning for Bushfire Prone Areas |
| <b>200458.3</b> | 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

|                 |  |
|-----------------|--|
| <b>301104.1</b> | Professional Practice and Building Law |
|-----------------|--|

##### Autumn session

|                 |  |
|-----------------|--|
| <b>300948.2</b> | Fire Technology and Engineering Principles |
| <b>301002.1</b> | Specialised Software Applications          |

##### Quarter 3 session

|                 |  |
|-----------------|--|
| <b>301050.1</b> | Disaster and Emergency Management (PG) |
|-----------------|--|

##### Spring session

|                 |  |
|-----------------|--|
| <b>200459.3</b> | Emergency Management for Bushfire Prone Areas  |
| <b>200499.5</b> | 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

|                 |   |
|-----------------|---|
| <b>300597.4</b> | Master Project 1                              |
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |

##### Spring session

|                 |                  |
|-----------------|------------------|
| <b>300598.5</b> | Master Project 2 |
|-----------------|------------------|

And one elective

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

- 200457.4** Bushfire Behaviour  
**301103.1** Interpreting Building Regulations  
 (Residential Buildings)

**Spring session**

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

**Summer session**

- 300708.4** Planning and Development Control  
**200500.3** Bushfire Fighting

**Year 2****Autumn session**

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

**Quarter 3 session**

- 301050.1** Disaster and Emergency Management (PG)

**Spring session**

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

**Summer session**

- 301104.1** Professional Practice and Building Law

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

**Year 3****Autumn session**

- 300597.4** Master Project 1  
**301004.1** Research Preparation in Post Graduate  
 Studies

**Spring session**

- 300598.5** Master Project 2

And one elective

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

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

**Summer session**

- 300708.4** Planning and Development Control  
**200500.3** Bushfire Fighting

**Year 2****Autumn session**

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

**Spring session**

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

**Summer session**

- 301104.1** Professional Practice and Building Law

**Year 3****Autumn session**

- 200457.4** Bushfire Behaviour  
**301002.1** Specialised Software Applications

**Quarter 3 session**

- 301050.1** Disaster and Emergency Management (PG)

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

**Spring session**

- 300597.4** Master Project 1  
**200499.5** Alternative Solutions for Bushfire Prone  
 Areas

**Year 4****Autumn session**

- 300598.5** Master Project 2

And one elective

**Graduate Diploma in Bushfire Protection****3709.2**

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course was 2016 or later.

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

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

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

### Study Mode

Two years part-time.

### Location

| Campus            | Attendance | Mode     |
|-------------------|------------|----------|
| Parramatta Campus | Part Time  | External |

### Accreditation

Accreditation by Fire Protection Association Australia is currently being sought.

### Admission

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

OR

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

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

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

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable

proof on the UAC website. Local applicants applying directly to the University should also use the information provided on the UAC website.

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

### Course Structure

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

### Recommended Sequence

#### Summer intake

##### Year 1

##### Summer session

|                 |                                  |
|-----------------|----------------------------------|
| <b>300708.4</b> | Planning and Development Control |
| <b>200500.3</b> | Bushfire Fighting                |

##### Autumn session

|                 |   |
|-----------------|---|
| <b>200457.4</b> | Bushfire Behaviour  |
| <b>301103.1</b> | Interpreting Building Regulations (Residential Buildings) |

##### Spring session

|                 |                                   |
|-----------------|-----------------------------------|
| <b>301049.1</b> | Planning for Bushfire Prone Areas |
| <b>200458.3</b> | 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

|                 |  |
|-----------------|--|
| <b>301104.1</b> | Professional Practice and Building Law |
|-----------------|--|

##### Autumn session

|                 |  |
|-----------------|--|
| <b>300948.2</b> | Fire Technology and Engineering Principles |
| <b>301002.1</b> | Specialised Software Applications          |

##### Quarter 3 session

|                 |  |
|-----------------|--|
| <b>301050.1</b> | Disaster and Emergency Management (PG) |
|-----------------|--|

##### Spring session

|                 |  |
|-----------------|--|
| <b>200459.3</b> | Emergency Management for Bushfire Prone Areas  |
| <b>200499.5</b> | Alternative Solutions for Bushfire Prone Areas |



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

**200457.4** Bushfire Behaviour  
**301103.1** Interpreting Building Regulations  
 (Residential Buildings)

**Spring session**

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

**Summer session**

**300708.4** Planning and Development Control  
**200500.3** Bushfire Fighting

**Year 2****Autumn session**

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

**Quarter 3 session**

**301050.1** Disaster and Emergency Management (PG)

**Spring session**

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

**Summer session**

**301104.1** Professional Practice and Building Law

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

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

**Summer session**

**300708.4** Planning and Development Control  
**200500.3** Bushfire Fighting

**Year 2****Autumn session**

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

**Quarter 3 session**

**301050.1** Disaster and Emergency Management (PG)

**Spring session**

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

**Summer session**

**301104.1** Professional Practice and Building Law

**Year 3****Autumn session**

**200457.4** Bushfire Behaviour  
**301002.1** Specialised Software Applications

**Graduate Certificate in Bushfire  
Protection****3710.2**

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course was 2016 or later.

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

This one-year part-time Graduate Certificate program aims to provide professionals with a comprehensive understanding of the behaviour and danger of bushfires in relation to local vegetation, land management and weather conditions. Students will gain the knowledge of the relevant planning and building regulations, standards and fire fighting. Graduates will be able to provide advice on developments in bushfire prone areas, assess building designs against the deemed-to-satisfy provisions of the building code and standards.

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

**Study Mode**

One year part-time.

**Location**

| Campus            | Attendance Mode    |
|-------------------|--------------------|
| Parramatta Campus | Part Time External |

**Accreditation**

Accreditation by Fire Protection Association Australia is currently being sought.

**Admission**

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

OR

A Diploma or higher in in bushfire protection, engineering, land surveying, building, building surveying, construction, planning, urban studies, architecture, landscape architecture, physical sciences, environmental studies, natural resource management, emergency management, land-use planning, local government or public sector management PLUS 2 years full-time equivalent professional and/or voluntary work experience in the relevant fields in industry, local government or state fire services

OR

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

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

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

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

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

**Course Structure**

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

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

**300708.4** Planning and Development Control  
**200500.3** Bushfire Fighting

**Autumn session**

**200457.4** Bushfire Behaviour  
**301103.1** Interpreting Building Regulations (Residential Buildings)

**Spring session**

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

**Master of Data Science****3735.1**

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course was 2016 or later.

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

**Study Mode**

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

**Location**

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

**Admission**

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

**Additional Information**

Assumed Knowledge:

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

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

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

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

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

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

### Course Structure

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

### Recommended Sequence

#### Start-year Intake

##### Year 1

##### Autumn session

|                 |                              |
|-----------------|------------------------------|
| <b>301113.1</b> | Programming for Data Science |
| <b>301114.1</b> | The Nature of Data           |
| <b>301046.1</b> | Big Data                     |
| <b>301112.1</b> | Visualisation                |

##### Spring session

|                 |                              |
|-----------------|------------------------------|
| <b>301044.1</b> | Data Science                 |
| <b>301115.1</b> | Advanced Statistical Methods |
| <b>301117.1</b> | Predictive Analytics         |

And one elective

##### Year 2

##### Autumn session

|                 |                           |
|-----------------|---------------------------|
| <b>301116.1</b> | Social Media Intelligence |
| <b>300597.4</b> | Master Project 1          |
| <b>301118.1</b> | Genomic Data Science      |

And one elective

##### Spring session

|                 |                           |
|-----------------|---------------------------|
| <b>301119.1</b> | Advanced Machine Learning |
| <b>300598.5</b> | Master Project 2          |

And two electives

**All elective units must be at Postgraduate Level 7**

### Mid-year Intake

#### Year 1

##### Spring session

|                 |                              |
|-----------------|------------------------------|
| <b>301044.1</b> | Data Science                 |
| <b>301113.1</b> | Programming for Data Science |
| <b>301114.1</b> | The Nature of Data           |

And one elective

##### Autumn session

|                 |                           |
|-----------------|---------------------------|
| <b>301046.1</b> | Big Data                  |
| <b>301112.1</b> | Visualisation             |
| <b>301116.1</b> | Social Media Intelligence |

And one elective

#### Year 2

##### Spring session

|                 |                              |
|-----------------|------------------------------|
| <b>301115.1</b> | Advanced Statistical Methods |
| <b>301119.1</b> | Advanced Machine Learning    |
| <b>301117.1</b> | Predictive Analytics         |
| <b>300597.4</b> | Master Project 1             |

##### Autumn session

|                 |                      |
|-----------------|----------------------|
| <b>301118.1</b> | Genomic Data Science |
| <b>300598.5</b> | Master Project 2     |

And two electives

**All elective units must be at Postgraduate Level 7**

### Master of Engineering

#### 3693.1

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

### 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 Campus | Full Time  | Internal |
| Parramatta Campus | Part Time  | Internal |
| Penrith Campus    | Full Time  | Internal |
| Penrith Campus    | Part Time  | Internal |

## Accreditation

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

## Admission

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

Additional Information:

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

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

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

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

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

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

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

## Course Structure

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

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

**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

|                 |   |
|-----------------|---|
| <b>301002.1</b> | Specialised Software Applications             |
| <b>300597.4</b> | Master Project 1                              |
| <b>300598.5</b> | Master Project 2                              |
| <b>301003.1</b> | Sustainable Systems                           |
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |
| <b>301005.1</b> | Professional Practice and Communication       |
| <b>301006.1</b> | Advanced Engineering Project 1                |
| <b>301007.1</b> | Advanced Engineering Project 2                |

## Specialisations

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

|                 |                   |
|-----------------|-------------------|
| <b>ST3027.1</b> | Civil             |
| <b>ST3028.1</b> | Electrical        |
| <b>ST3029.1</b> | Environmental     |
| <b>ST3030.1</b> | Mechanical        |
| <b>ST3031.1</b> | Mechatronic       |
| <b>ST3032.1</b> | Telecommunication |

## Recommended Sequence

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

## Start year intake

### Year 1

#### Autumn session

|                 |   |
|-----------------|---|
| <b>301005.1</b> | Professional Practice and Communication |
| <b>301002.1</b> | Specialised Software Applications       |

Specialised Alternate 1 or Elective 1

Specialised Alternate 2 or Elective 2

#### Spring session

|                 |   |
|-----------------|---|
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |
| <b>301006.1</b> | Advanced Engineering Project 1                |

Elective 1 or Specialised Alternate 1

Elective 2 or Specialised Alternate 2

### Year 2

#### Autumn session

|                 |                                |
|-----------------|--------------------------------|
| <b>300597.4</b> | Master Project 1               |
| <b>301007.1</b> | Advanced Engineering Project 2 |

Specialised Alternate 3 or Elective 3

Specialised Alternate 4

**Spring session**

**300598.5** Master Project 2  
**301003.1** Sustainable Systems

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**

**301005.1** 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 Campus | Full Time  | Internal |
| Parramatta Campus | Part Time  | Internal |

**Admission**

Graduate Diploma in Engineering will not be offered to commencing students. It will be made available only as an exit point for Master of Engineering students.

**Course Structure**

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

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

**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**

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



## Specialisations

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

|          |                    |
|----------|--------------------|
| ST3037.1 | Civil              |
| ST3038.1 | Electrical         |
| ST3039.1 | Environmental      |
| ST3040.1 | Mechanical         |
| ST3041.1 | Mechatronic        |
| ST3042.1 | Telecommunications |

## 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 Paramatta 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 Campus | Full Time  | Internal |
| Parramatta Campus | Part Time  | Internal |

### Admission

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

Additional Information:

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

Those who have successfully completed a recognised three year undergraduate degree in Science or four year Bachelor of Engineering in another specialisation or equivalent qualifications must undertake and complete specified non-award undergraduate engineering units with

approval of the Director of Academic Program before articulation to the Graduate Certificate in Engineering.

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

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

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

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

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

### Course Structure

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

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

**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

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

### Specialisations

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

|          |                   |
|----------|-------------------|
| ST3043.1 | Civil             |
| ST3044.1 | Electrical        |
| ST3045.1 | Environmental     |
| ST3046.1 | Mechanical        |
| ST3047.1 | Mechatronic       |
| ST3048.1 | Telecommunication |

## Master of Fire Safety Engineering

### 3705.2

Students should follow the course structure for the course version relevant to the year they commenced. This version

applies to students whose commencement year in this course was 2016 or later.

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

This three-year part-time Master's program aims to provide professionals with the special skills and knowledge to develop, assess and evaluate fire safety engineering solutions for built environment. The course covers fire safety science and engineering principles. It is relevant to professionals developing alternative solutions using the fire engineering guidelines to meet the objectives and performance requirements of building regulations. Graduates will also acquire the skill to independently appraise the literature and address fire safety engineering issues faced by the building industry.

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

### Study Mode

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

### Location

| Campus            | Attendance Mode    |
|-------------------|--------------------|
| Parramatta Campus | Part Time External |

### Admission

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

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

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

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

### Course Structure

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

## Recommended Sequence

### Summer intake

#### Year 1

##### Summer session

|                 |                          |
|-----------------|--------------------------|
| <b>301048.1</b> | Fire Engineering Science |
| <b>300713.3</b> | Building Engineering     |

##### Autumn session

|                 |                                    |
|-----------------|------------------------------------|
| <b>300947.2</b> | Building Regulations               |
| <b>300709.3</b> | Fire Engineering 1 (Fire Dynamics) |

##### Spring session

|                 |                            |
|-----------------|----------------------------|
| <b>300717.3</b> | Egress and Risk Assessment |
| <b>300711.3</b> | Building Fire Services     |

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

#### Year 2

##### Summer session

|                 |  |
|-----------------|--|
| <b>301104.1</b> | Professional Practice and Building Law |
|-----------------|--|

##### Autumn session

|                 |                                   |
|-----------------|-----------------------------------|
| <b>300710.3</b> | Fire Engineering 2 (Fire Models)  |
| <b>301002.1</b> | Specialised Software Applications |

##### Quarter 3 session

|                 |  |
|-----------------|--|
| <b>301050.1</b> | Disaster and Emergency Management (PG) |
|-----------------|--|

##### Spring session

|                 |  |
|-----------------|--|
| <b>200458.3</b> | Building in Bushfire Prone Areas       |
| <b>300718.3</b> | 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

|                 |   |
|-----------------|---|
| <b>300597.4</b> | Master Project 1                              |
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |

##### Spring session

|                 |                  |
|-----------------|------------------|
| <b>300598.5</b> | Master Project 2 |
|-----------------|------------------|

And one elective

### Autumn intake

#### Year 1

##### Autumn session

|                 |                      |
|-----------------|----------------------|
| <b>300947.2</b> | Building Regulations |
|-----------------|----------------------|

**300709.3** Fire Engineering 1 (Fire Dynamics)**Spring session**

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

**Summer session**

**301048.1** Fire Engineering Science  
**300713.3** Building Engineering

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

**Year 2****Autumn session**

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

**Quarter 3 session**

**301050.1** Disaster and Emergency Management (PG)

**Spring session**

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

**Summer session**

**301104.1** Professional Practice and Building Law

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

**Year 3****Autumn session**

**300597.4** Master Project 1  
**301004.1** Research Preparation in Post Graduate Studies

**Spring session**

**300598.5** Master Project 2

And one elective

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

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

**Summer session**

**301048.1** Fire Engineering Science  
**300713.3** Building Engineering

**Year 2****Autumn session**

**300947.2** Building Regulations  
**300709.3** Fire Engineering 1 (Fire Dynamics)

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

**Quarter 3 session**

**301050.1** Disaster and Emergency Management (PG)

**Spring session**

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

**Summer session**

**301104.1** Professional Practice and Building Law

**Year 3****Autumn session**

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

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

**Spring session**

**300597.4** Master Project 1  
**301004.1** Research Preparation in Post Graduate Studies

**Autumn session**

**300598.5** Master Project 2

And one elective

**Graduate Diploma in Fire Safety Engineering****3706.2**

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course was 2016 or later.

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

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

engineering guidelines to meet the objectives and performance requirements of building regulations.

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

### Study Mode

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

### Location

| Campus            | Attendance | Mode     |
|-------------------|------------|----------|
| Parramatta Campus | Part Time  | External |

### Admission

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

OR

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

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

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

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

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

### Course Structure

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

### Recommended Sequence

#### Summer intake

##### Year 1

##### Summer session

**301048.1** Fire Engineering Science

**300713.3** Building Engineering

##### Autumn session

**300947.2** Building Regulations  
**300709.3** Fire Engineering 1 (Fire Dynamics)

##### Spring session

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

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

##### Year 2

##### Summer session

**301104.1** Professional Practice and Building Law

##### 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**

- 301104.1** 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**

- 301104.1** Professional Practice and Building Law

**Year 3****Autumn session**

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

**Graduate Certificate in Fire Safety Engineering****3707.1**

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course was 2015 or later.

This one year part-time Graduate Certificate program aims to provide professionals with the special skills and

knowledge to develop, assess and evaluate fire safety engineering solutions for built environment. The course delivers the fundamentals of fire safety science and engineering principles. It introduces the performance based build regulatory framework under which fire safety engineering is practiced. The active building fire services, human response to fires and the concept of risk are also covered. The course is relevant to professionals assessing alternative solutions to meet the objectives and performance requirements of building regulations. The course sets a pathway to advanced qualification at the Graduate Diploma level.

**Study Mode**

One year part-time.

**Location**

| Campus            | Attendance | Mode     |
|-------------------|------------|----------|
| Parramatta Campus | Part Time  | External |

**Admission**

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

Or

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

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

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

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

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

**Course Structure**

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



## Recommended Sequence

### Summer intake

#### Year 1

##### Summer session

**301048.1** Fire Engineering Science  
**300713.3** Building Engineering

##### Autumn session

**300947.2** Building Regulations  
**300709.3** Fire Engineering 1 (Fire Dynamics)

##### Spring session

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

### Autumn intake

#### Year 1

##### Autumn session

**300947.2** Building Regulations  
**300709.3** Fire Engineering 1 (Fire Dynamics)

##### Spring session

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

##### Summer session

**301048.1** Fire Engineering Science  
**300713.3** Building Engineering

### Spring intake

#### Year 1

##### Spring session

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

##### Summer session

**301048.1** Fire Engineering Science  
**300713.3** Building Engineering

#### Year 2

##### Autumn session

**300947.2** Building Regulations  
**300709.3** Fire Engineering 1 (Fire Dynamics)

## Master of Information and Communications Technology

### 3699.2

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.

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  | Full Time  | Internal |
| Parramatta Campus  | Part Time  | Internal |
| Sydney City Campus | Full Time  | Internal |

### Accreditation

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

### 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).

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

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

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

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

## Course Structure

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

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

### Pathway A - Two years

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

|                |   |
|----------------|---|
| <b>A3022.1</b> | Master of Information and Communications Technology Pathway A - 2 years |
|----------------|---|

### Pathway B - One and a half years

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

|                |   |
|----------------|---|
| <b>A3023.1</b> | Master of Information and Communications Technology Pathway B - 1.5 years |
|----------------|---|

### Pathway C - One and a half years

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

|                |   |
|----------------|---|
| <b>A3024.1</b> | 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.

|                 |               |
|-----------------|---------------|
| <b>301047.1</b> | ICT Practicum |
|-----------------|---------------|

Students may also complete one of the listed Specialisations below.

### Parramatta campus

|                 |                                 |
|-----------------|---------------------------------|
| <b>ST3053.1</b> | Data Analytics                  |
| <b>ST3052.1</b> | Digital Futures                 |
| <b>ST3033.1</b> | Distributed Computing           |
| <b>ST3036.1</b> | Health Informatics              |
| <b>ST3051.1</b> | Innovation and Entrepreneurship |
| <b>ST3034.1</b> | Management                      |
| <b>ST3049.1</b> | Networking                      |
| <b>ST3050.1</b> | Web and Mobile Computing        |

### Sydney City campus

|                 |                          |
|-----------------|--------------------------|
| <b>ST3049.1</b> | Networking               |
| <b>ST3050.1</b> | Web and Mobile Computing |

## Master of Information and Communications Technology (Advanced)

### 3698.2

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.

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 | Full Time  | Internal |
| Parramatta Campus | Part Time  | Internal |

**Accreditation**

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

A Bachelor qualification in any discipline

Or

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).

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 Western Sydney 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.

|                |  |
|----------------|--|
| <b>A3019.1</b> | Master of Information and Communications Technology (Advanced) Pathway A - 2.5 years |
|----------------|--|

**Pathway B - Two years**

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

|                |   |
|----------------|---|
| <b>A3020.1</b> | Master of Information and Communications Technology (Advanced) Pathway B - 2 year program |
|----------------|---|

**Pathway C - Two years**

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

|                |  |
|----------------|--|
| <b>A3021.1</b> | Master of Information and Communications Technology (Advanced) Pathway C - 2 years |
|----------------|--|

**Additional Completion Requirements**

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

|                 |               |
|-----------------|---------------|
| <b>301047.1</b> | ICT Practicum |
|-----------------|---------------|

Students must also complete one of the listed Specialisations below.

|                 |                                 |
|-----------------|---------------------------------|
| <b>ST3053.1</b> | Data Analytics                  |
| <b>ST3052.1</b> | Digital Futures                 |
| <b>ST3033.1</b> | Distributed Computing           |
| <b>ST3036.1</b> | Health Informatics              |
| <b>ST3051.1</b> | Innovation and Entrepreneurship |
| <b>ST3034.1</b> | Management                      |
| <b>ST3049.1</b> | Networking                      |
| <b>ST3050.1</b> | Web and Mobile Computing        |

**Master of Information and Communications Technology (Research)****3702.1**

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 2017 or later.

Master of Information and Communications Technology (Research) – MICT (Res) exposes students to advanced topics and research in ICT. This course is comprised of a

coursework component that is followed by a full-time-equivalent year of supervised research training. The primary objective of this course is to provide students with an opportunity to develop research skills appropriate to the ICT discipline. This course provides a pathway to Higher Degree Research studies by engaging students in research projects within the university or in collaboration with an external organisation.

### Study Mode

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

### Location

| Campus            | Attendance Mode    |
|-------------------|--------------------|
| Parramatta Campus | Full Time Internal |

### Accreditation

Master of Information and Communication Technologies (Research) is accredited at Professional Level by the Australian Computer Society.

### Admission

Minimum admission requirements to this course are:

An undergraduate degree, Bachelor Honours or Masters qualification in any discipline

Or

Diploma in ICT/Computing/Information Systems 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.

On entry to the program students may be eligible for advanced standing depending on their previous studies and the minimum criteria required for each pathway is outlined below.

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

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

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

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

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

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

### Course Structure

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

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

#### Pathway A - Two and a half years

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

|                |   |
|----------------|---|
| <b>A3016.1</b> | Master of Information and Communications Technology (Research) Pathway A - 2.5 yr program |
|----------------|---|

#### Pathway B - Two years

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

|                |   |
|----------------|---|
| <b>A3017.1</b> | Master of Information and Communications Technology (Research) Pathway B - 2 year program |
|----------------|---|

#### Pathway C - Two years

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

|                |   |
|----------------|---|
| <b>A3018.1</b> | Master of Information and Communications Technology (Research) Pathway C - 2 year program |
|----------------|---|

### 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 | Full Time  | Internal |
| Parramatta Campus | Part Time  | Internal |

### Admission

Minimum admission requirements to this course are:

A Bachelor qualification in any discipline

Or

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

### Additional Information

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).

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.

|                |  |
|----------------|--|
| <b>A3025.1</b> | Graduate Diploma in Information and Communications Technology<br>Pathway A - 1.5 years |
|----------------|--|

#### Pathway B - One year

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

|                |   |
|----------------|---|
| <b>A3026.1</b> | Graduate Diploma in Information and Communications Technology<br>Pathway B - 1 year |
|----------------|---|

#### Pathway C - One year

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

|                |   |
|----------------|---|
| <b>A3027.1</b> | Graduate Diploma in Information and Communications Technology<br>Pathway C - 1 year |
|----------------|---|

### 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 | Full Time       | Internal |
| Parramatta Campus | Part Time       | Internal |

**Admission**

Minimum admission requirements to this course are:

A Bachelor qualification in any discipline

Or

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

**Additional Information**

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).

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.

|                |  |
|----------------|--|
| <b>A3028.1</b> | Graduate Certificate in Information and Communications Technology Pathway A - 1 year |
|----------------|--|

**Pathway B - Six months**

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

|                |  |
|----------------|--|
| <b>A3029.1</b> | Graduate Certificate in Information and Communications Technology Pathway B - 0.5 year |
|----------------|--|

**Pathway C - Six months**

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

|                |  |
|----------------|--|
| <b>A3030.1</b> | Graduate Certificate in Information and Communications Technology Pathway C - 0.5 year |
|----------------|--|

## Specialisations

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### Postgraduate Admission Pathway - Master of Information and Communications Technology (Research) Pathway A - 2.5 yr program

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#### A3016.1

### Specialisation Structure

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

Qualification for this award requires the successful completion of 200 credit points including the units listed below.

### Full-time - Start Year Intake

#### Year 1

##### 1H session

**800166.1** Research Design 1: Theories of Enquiry

##### Autumn session

**301038.2** Programming Proficiency  
**301045.2** Advanced Topics in User System Interaction  
**301005.1** Professional Practice and Communication

##### 2H session

**800169.1** Research Design 2: Practices of Research

##### Spring session

**300695.2** Network Technologies  
**300977.2** Systems Analysis and Database Management Systems  
**301004.1** Research Preparation in Post Graduate Studies

#### Year 2

##### Autumn session

Four units from List 1, List 2 or List 3 below.

Note: Units in these lists may be included in the course structure as Core Units and cannot be selected as an elective.

##### 2H session

**301125.1** Masters Thesis

#### Year 3

##### 1H session

**301125.1** Masters Thesis

### Full-time Mid-Year Intake

#### Year 1

##### 2H session

**800166.1** Research Design 1: Theories of Enquiry

##### Spring session

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

##### 1H session

**800169.1** Research Design 2: Practices of Research

##### Autumn session

**300695.2** Network Technologies  
**301045.2** Advanced Topics in User System Interaction  
**301004.1** Research Preparation in Post Graduate Studies

#### Year 2

##### Spring session

Four units from List 1, List 2 or List 3 below.

Note: Units in these lists may be included in the course structure as Core Units and cannot be selected as an elective.

##### 1H session

**301125.1** Masters Thesis

#### Year 3

##### 2H session

**301125.1** Masters Thesis

### List 1 - Preliminary Units

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

### List 2 - Specialised Units

**301046.1** Big Data  
**301044.1** Data Science  
**301042.1** Cloud Computing  
**301043.2** Mobile Computing  
**300599.3** Advanced Robotics  
**301020.1** Advanced Mobile Robotics

|                 |  |
|-----------------|--|
| <b>301041.1</b> | Service Oriented Architecture            |
| <b>300694.3</b> | Advanced Topics in ICT                   |
| <b>300255.2</b> | Network Management                       |
| <b>300252.3</b> | Advanced Topics in Networking            |
| <b>300256.2</b> | Multimedia Communication Systems         |
| <b>300389.2</b> | Wireless Networking                      |
| <b>300443.2</b> | Web Engineering                          |
| <b>300769.3</b> | Intelligent Agents for E-Markets         |
| <b>300692.2</b> | Workflow Management Systems              |
| <b>300770.3</b> | Software Testing and Automation          |
| <b>301028.1</b> | Advanced Healthcare Data Environments    |
| <b>301029.1</b> | Advanced Healthcare Software and Systems |
| <b>301175.1</b> | Internet of Things                       |
| <b>301162.1</b> | Information Security Management          |

### List 3 - Multi-disciplinary Units

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

### Postgraduate Admission Pathway - Master of Information and Communications Technology (Research) Pathway B - 2 year program

#### A3017.1

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 (Research) to complete this specialisation.

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

#### Full-time - Start Year Intake

##### Year 1

##### 1H session

|                 |  |
|-----------------|--|
| <b>800166.1</b> | Research Design 1: Theories of Enquiry |
|-----------------|--|

##### Autumn session

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                    |
| <b>301045.2</b> | Advanced Topics in User System Interaction |
| <b>301005.1</b> | Professional Practice and Communication    |

##### 2H session

|                 |  |
|-----------------|--|
| <b>800169.1</b> | Research Design 2: Practices of Research |
|-----------------|--|

##### Spring session

|                 |  |
|-----------------|--|
| <b>300695.2</b> | Network Technologies                             |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |
| <b>301004.1</b> | Research Preparation in Post Graduate Studies    |

##### Year 2

##### 1H session

|                 |                |
|-----------------|----------------|
| <b>301125.1</b> | Masters Thesis |
|-----------------|----------------|

##### 2H session

|                 |                |
|-----------------|----------------|
| <b>301125.1</b> | Masters Thesis |
|-----------------|----------------|

### Full-time Mid-Year Intake

##### Year 1

##### 2H session

|                 |  |
|-----------------|--|
| <b>800166.1</b> | Research Design 1: Theories of Enquiry |
|-----------------|--|

##### Spring session

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                          |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |
| <b>301005.1</b> | Professional Practice and Communication          |

##### 1H session

|                 |  |
|-----------------|--|
| <b>800169.1</b> | Research Design 2: Practices of Research |
|-----------------|--|

##### Autumn session

|                 |   |
|-----------------|---|
| <b>300695.2</b> | Network Technologies                          |
| <b>301045.2</b> | Advanced Topics in User System Interaction    |
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |

##### Year 2

##### 2H session

|                 |                |
|-----------------|----------------|
| <b>301125.1</b> | Masters Thesis |
|-----------------|----------------|

##### 1H session

|                 |                |
|-----------------|----------------|
| <b>301125.1</b> | Masters Thesis |
|-----------------|----------------|

### Postgraduate Admission Pathway - Master of Information and Communications Technology (Research) Pathway C - 2 year program

#### A3018.1

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 Master of Information and Communications Technology (Research) to complete this specialisation.

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

Students with Computing/ ICT/IS Master qualifications will be eligible for a minimum of Level 7 unspecified 40 credit points of Advanced Standing.

### Full-time - Start Year Intake

#### Year 1

##### 1H session

**800166.1** Research Design 1: Theories of Enquiry

##### Autumn session

**301005.1** Professional Practice and Communication

And two units from List 1, List 2 or List 3 below

Note: Units in these lists may be included in the course structure as Core Units and cannot be selected as an elective.

##### 2H session

**800169.1** Research Design 2: Practices of Research

##### Spring session

**301004.1** Research Preparation in Post Graduate Studies

And two elective units from List 1, List 2 or List 3 below

Note: Units in these lists may be included in the course structure as Core Units and cannot be selected as an elective.

#### Year 2

##### 1H session

**301125.1** Masters Thesis

##### 2H session

**301125.1** Masters Thesis

### Full-time Mid-Year Intake

#### Year 1

##### 2H session

**800166.1** Research Design 1: Theories of Enquiry

##### Spring session

**301005.1** Professional Practice and Communication

And two units from List 1, List 2 or List 3 below

Note: Units in these lists may be included in the course structure as Core Units and cannot be selected as an elective.

##### 1H session

**800169.1** Research Design 2: Practices of Research

##### Autumn session

**301004.1** Research Preparation in Post Graduate Studies

And two elective units from List 1, List 2 or List 3 below

Note: Units in these lists may be included in the course structure as Core Units and cannot be selected as an elective.

#### Year 2

##### 2H session

**301125.1** Masters Thesis

##### 1H session

**301125.1** Masters Thesis

### List 1 - Preliminary Units

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

### List 2 - Specialised Units

**301046.1** Big Data  
**301044.1** Data Science  
**301042.1** Cloud Computing  
**301043.2** Mobile Computing  
**300599.3** Advanced Robotics  
**301020.1** Advanced Mobile Robotics  
**301041.1** Service Oriented Architecture  
**300694.3** Advanced Topics in ICT  
**300255.2** Network Management  
**300252.3** Advanced Topics in Networking

|                 |  |
|-----------------|--|
| <b>300256.2</b> | Multimedia Communication Systems         |
| <b>300389.2</b> | Wireless Networking                      |
| <b>300443.2</b> | Web Engineering                          |
| <b>300769.3</b> | Intelligent Agents for E-Markets         |
| <b>300692.2</b> | Workflow Management Systems              |
| <b>300770.3</b> | Software Testing and Automation          |
| <b>301028.1</b> | Advanced Healthcare Data Environments    |
| <b>301029.1</b> | Advanced Healthcare Software and Systems |
| <b>301175.1</b> | Internet of Things                       |
| <b>301162.1</b> | Information Security Management          |

### List 3 - Multi-disciplinary Units

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

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

#### A3019.1

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 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

|                 |   |
|-----------------|---|
| <b>300695.2</b> | Network Technologies                          |
| <b>301005.1</b> | Professional Practice and Communication       |
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |
| <b>300694.3</b> | Advanced Topics in ICT                        |
| <b>300693.3</b> | Web Technologies                              |
| <b>301046.1</b> | Big Data                                      |
| <b>300260.2</b> | IT Project Management                         |
| <b>300597.4</b> | Master Project 1                              |
| <b>300598.5</b> | Master Project 2                              |

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

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                          |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |
| <b>301045.2</b> | Advanced Topics in User System Interaction       |

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

|                 |               |
|-----------------|---------------|
| <b>301047.1</b> | ICT Practicum |
|-----------------|---------------|

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.

|                 |  |
|-----------------|--|
| <b>ST3053.1</b> | Data Analytics                             |
| <b>ST3052.1</b> | Digital Futures                            |
| <b>ST3033.1</b> | Distributed Computing                      |
| <b>ST3036.1</b> | Health Informatics                         |
| <b>ST3051.1</b> | Innovation and Entrepreneurship Management |
| <b>ST3034.1</b> | Management                                 |
| <b>ST3049.1</b> | Networking                                 |
| <b>ST3050.1</b> | Web and Mobile Computing                   |

#### Full Time - Start Year Intake

##### Year 1

##### Autumn session

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                          |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |
| <b>300695.2</b> | Network Technologies                             |
| <b>301005.1</b> | Professional Practice and Communication          |

##### Spring session

|                 |   |
|-----------------|---|
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |
| <b>300694.3</b> | Advanced Topics in ICT                        |
| <b>300693.3</b> | Web Technologies                              |

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

##### Year 2

##### Autumn session

|                 |  |
|-----------------|--|
| <b>301045.2</b> | Advanced Topics in User System Interaction |
| <b>301046.1</b> | Big Data                                   |
| <b>300260.2</b> | IT Project Management                      |
| <b>300597.4</b> | Master Project 1                           |

##### Spring session

|                 |                  |
|-----------------|------------------|
| <b>300598.5</b> | Master Project 2 |
|-----------------|------------------|

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**

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                          |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |
| <b>300695.2</b> | Network Technologies                             |
| <b>301005.1</b> | Professional Practice and Communication          |

**Autumn session**

|                 |   |
|-----------------|---|
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |
| <b>301045.2</b> | Advanced Topics in User System Interaction    |
| <b>300694.3</b> | Advanced Topics in ICT                        |
| <b>300260.2</b> | IT Project Management                         |

**Year 2****Spring session**

|                 |                  |
|-----------------|------------------|
| <b>300693.3</b> | Web Technologies |
| <b>300597.4</b> | Master Project 1 |

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

**Autumn session**

|                 |                  |
|-----------------|------------------|
| <b>301046.1</b> | Big Data         |
| <b>300598.5</b> | 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.**

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

**300696.2** Systems and Network Security

**Specialised Units**

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

|                 |  |
|-----------------|--|
| <b>301046.1</b> | Big Data                                 |
| <b>301044.1</b> | Data Science                             |
| <b>301042.1</b> | Cloud Computing                          |
| <b>301043.2</b> | Mobile Computing                         |
| <b>300599.3</b> | Advanced Robotics                        |
| <b>301020.1</b> | Advanced Mobile Robotics                 |
| <b>301041.1</b> | Service Oriented Architecture            |
| <b>300694.3</b> | Advanced Topics in ICT                   |
| <b>300255.2</b> | Network Management                       |
| <b>301175.1</b> | Internet of Things                       |
| <b>300252.3</b> | Advanced Topics in Networking            |
| <b>300256.2</b> | Multimedia Communication Systems         |
| <b>300389.2</b> | Wireless Networking                      |
| <b>300443.2</b> | Web Engineering                          |
| <b>300769.3</b> | Intelligent Agents for E-Markets         |
| <b>300692.2</b> | Workflow Management Systems              |
| <b>300770.3</b> | Software Testing and Automation          |
| <b>301028.1</b> | Advanced Healthcare Data Environments    |
| <b>301029.1</b> | Advanced Healthcare Software and Systems |
| <b>301162.1</b> | Information Security Management          |
| <b>301114.1</b> | The Nature of Data                       |
| <b>301044.1</b> | Data Science                             |
| <b>301117.1</b> | Predictive Analytics                     |
| <b>301112.1</b> | Visualisation                            |
| <b>301113.1</b> | Programming for Data Science             |
| <b>301116.1</b> | Social Media Intelligence                |

**Multi-disciplinary Units**

**A maximum of four units are allowed from this list.**

|                 |  |
|-----------------|--|
| <b>200820.2</b> | The Contemporary Business Environment          |
| <b>200825.2</b> | Understanding Contemporary Organisations       |
| <b>200821.2</b> | Financial Reports for Decision Making          |
| <b>200826.1</b> | Contemporary People Management                 |
| <b>200841.2</b> | Strategic Business Management                  |
| <b>200848.2</b> | Governance, Ethics and Social Entrepreneurship |
| <b>200425.4</b> | Economics                                      |
| <b>200852.1</b> | Innovation, Creativity and Foresight           |
| <b>200849.1</b> | New Venture Finance                            |
| <b>200851.1</b> | Innovation for New Markets                     |
| <b>200845.1</b> | Innovation Through Digital Technology          |
| <b>200850.1</b> | Entrepreneurial Management Capabilities        |
| <b>200971.1</b> | Start-up                                       |
| <b>101743.2</b> | Mobile Media                                   |
| <b>102412.1</b> | Global Digital Futures                         |
| <b>101962.1</b> | Researching Convergent Media                   |
| <b>102424.1</b> | Cyber Justice                                  |
| <b>102300.1</b> | Foundations of Media Arts Production (PG)      |
| <b>101423.3</b> | Media Project Proposal                         |

## Postgraduate Admission Pathway - Master of Information and Communications Technology (Advanced) Pathway B - 2 year program

### A3020.1

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

|                 |   |
|-----------------|---|
| <b>300695.2</b> | Network Technologies                          |
| <b>301005.1</b> | Professional Practice and Communication       |
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |
| <b>300694.3</b> | Advanced Topics in ICT                        |
| <b>300693.3</b> | Web Technologies                              |
| <b>301046.1</b> | Big Data                                      |
| <b>300260.2</b> | IT Project Management                         |
| <b>300597.4</b> | Master Project 1                              |
| <b>300598.5</b> | Master Project 2                              |

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

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                          |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |
| <b>301045.2</b> | Advanced Topics in User System Interaction       |

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

|                 |               |
|-----------------|---------------|
| <b>301047.1</b> | 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.

|                 |                                 |
|-----------------|---------------------------------|
| <b>ST3053.1</b> | Data Analytics                  |
| <b>ST3052.1</b> | Digital Futures                 |
| <b>ST3033.1</b> | Distributed Computing           |
| <b>ST3036.1</b> | Health Informatics              |
| <b>ST3051.1</b> | Innovation and Entrepreneurship |
| <b>ST3034.1</b> | Management                      |
| <b>ST3049.1</b> | Networking                      |
| <b>ST3050.1</b> | Web and Mobile Computing        |

## Full Time - Start Year Intake

### Year 1

#### Autumn session

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                          |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |
| <b>300695.2</b> | Network Technologies                             |
| <b>301005.1</b> | Professional Practice and Communication          |

#### Spring session

|                 |   |
|-----------------|---|
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |
| <b>300694.3</b> | Advanced Topics in ICT                        |
| <b>300693.3</b> | Web Technologies                              |

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

### Year 2

#### Autumn session

|                 |  |
|-----------------|--|
| <b>301045.2</b> | Advanced Topics in User System Interaction |
| <b>301046.1</b> | Big Data                                   |
| <b>300260.2</b> | IT Project Management                      |
| <b>300597.4</b> | Master Project 1                           |

#### Spring session

|                 |                  |
|-----------------|------------------|
| <b>300598.5</b> | Master Project 2 |
|-----------------|------------------|

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

## Full Time - Mid-Year Intake

### Year 1

#### Spring session

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                          |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |
| <b>300695.2</b> | Network Technologies                             |
| <b>301005.1</b> | Professional Practice and Communication          |

#### Autumn session

|                 |   |
|-----------------|---|
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |
| <b>301045.2</b> | Advanced Topics in User System Interaction    |
| <b>300694.3</b> | Advanced Topics in ICT                        |
| <b>300260.2</b> | IT Project Management                         |

### Year 2

#### Spring session

|                 |                  |
|-----------------|------------------|
| <b>300693.3</b> | Web Technologies |
| <b>300597.4</b> | Master Project 1 |

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

**Autumn session**

|                 |                  |
|-----------------|------------------|
| <b>301046.1</b> | Big Data         |
| <b>300598.5</b> | 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.**

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

**Specialised Units**

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

|                 |  |
|-----------------|--|
| <b>301046.1</b> | Big Data                                 |
| <b>301044.1</b> | Data Science                             |
| <b>301042.1</b> | Cloud Computing                          |
| <b>301043.2</b> | Mobile Computing                         |
| <b>300599.3</b> | Advanced Robotics                        |
| <b>301020.1</b> | Advanced Mobile Robotics                 |
| <b>301041.1</b> | Service Oriented Architecture            |
| <b>300694.3</b> | Advanced Topics in ICT                   |
| <b>300255.2</b> | Network Management                       |
| <b>301175.1</b> | Internet of Things                       |
| <b>300252.3</b> | Advanced Topics in Networking            |
| <b>300256.2</b> | Multimedia Communication Systems         |
| <b>300389.2</b> | Wireless Networking                      |
| <b>300443.2</b> | Web Engineering                          |
| <b>300769.3</b> | Intelligent Agents for E-Markets         |
| <b>300692.2</b> | Workflow Management Systems              |
| <b>300770.3</b> | Software Testing and Automation          |
| <b>301028.1</b> | Advanced Healthcare Data Environments    |
| <b>301029.1</b> | Advanced Healthcare Software and Systems |
| <b>301162.1</b> | Information Security Management          |
| <b>301114.1</b> | The Nature of Data                       |
| <b>301044.1</b> | Data Science                             |
| <b>301117.1</b> | Predictive Analytics                     |
| <b>301112.1</b> | Visualisation                            |
| <b>301113.1</b> | Programming for Data Science             |
| <b>301116.1</b> | Social Media Intelligence                |

**Multi-disciplinary Units**

**A maximum of four units are allowed from this list.**

|                 |                                       |
|-----------------|---------------------------------------|
| <b>200820.2</b> | The Contemporary Business Environment |
|-----------------|---------------------------------------|

|                 |  |
|-----------------|--|
| <b>200825.2</b> | Understanding Contemporary Organisations       |
| <b>200821.2</b> | Financial Reports for Decision Making          |
| <b>200826.1</b> | Contemporary People Management                 |
| <b>200841.2</b> | Strategic Business Management                  |
| <b>200848.2</b> | Governance, Ethics and Social Entrepreneurship |
| <b>200425.4</b> | Economics                                      |
| <b>200852.1</b> | Innovation, Creativity and Foresight           |
| <b>200849.1</b> | New Venture Finance                            |
| <b>200851.1</b> | Innovation for New Markets                     |
| <b>200845.1</b> | Innovation Through Digital Technology          |
| <b>200850.1</b> | Entrepreneurial Management Capabilities        |
| <b>200971.1</b> | Start-up                                       |
| <b>101743.2</b> | Mobile Media                                   |
| <b>102412.1</b> | Global Digital Futures                         |
| <b>101962.1</b> | Researching Convergent Media                   |
| <b>102424.1</b> | Cyber Justice                                  |
| <b>102300.1</b> | Foundations of Media Arts Production (PG)      |
| <b>101423.3</b> | Media Project Proposal                         |

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

**A3021.1**

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 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**

|                 |   |
|-----------------|---|
| <b>300695.2</b> | Network Technologies                          |
| <b>300260.2</b> | IT Project Management                         |
| <b>301005.1</b> | Professional Practice and Communication       |
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |
| <b>300694.3</b> | Advanced Topics in ICT                        |
| <b>300693.3</b> | Web Technologies                              |
| <b>301046.1</b> | Big Data                                      |
| <b>300597.4</b> | Master Project 1                              |
| <b>300598.5</b> | Master Project 2                              |

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

**301047.1** ICT Practicum

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

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

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

|                 |                                 |
|-----------------|---------------------------------|
| <b>ST3053.1</b> | Data Analytics                  |
| <b>ST3052.1</b> | Digital Futures                 |
| <b>ST3033.1</b> | Distributed Computing           |
| <b>ST3036.1</b> | Health Informatics              |
| <b>ST3051.1</b> | Innovation and Entrepreneurship |
| <b>ST3034.1</b> | Management                      |
| <b>ST3049.1</b> | Networking                      |
| <b>ST3050.1</b> | Web and Mobile Computing        |

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

|                 |   |
|-----------------|---|
| <b>300695.2</b> | Network Technologies                    |
| <b>300260.2</b> | IT Project Management                   |
| <b>301005.1</b> | Professional Practice and Communication |

And one unit from Foundation units or Specialised unit lists.

**Spring session**

|                 |   |
|-----------------|---|
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |
| <b>300694.3</b> | Advanced Topics in ICT                        |
| <b>300693.3</b> | Web Technologies                              |

And one unit from Foundation or Specialised unit lists.

**Year 2****Autumn session**

|                 |                  |
|-----------------|------------------|
| <b>301046.1</b> | Big Data         |
| <b>300597.4</b> | Master Project 1 |

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

**Spring session**

|                 |                  |
|-----------------|------------------|
| <b>300598.5</b> | Master Project 2 |
|-----------------|------------------|

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

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

|                 |   |
|-----------------|---|
| <b>300693.3</b> | Web Technologies                        |
| <b>301005.1</b> | Professional Practice and Communication |
| <b>300695.2</b> | Network Technologies                    |

And one unit from Foundation or Specialised unit lists.

**Autumn session**

|                 |   |
|-----------------|---|
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |
| <b>300694.3</b> | Advanced Topics in ICT                        |
| <b>300260.2</b> | IT Project Management                         |

And one unit from Foundation or Specialised unit lists.

**Year 2****Spring session**

|                 |                  |
|-----------------|------------------|
| <b>301046.1</b> | Big Data         |
| <b>300597.4</b> | Master Project 1 |

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

**Autumn session**

|                 |                  |
|-----------------|------------------|
| <b>300598.5</b> | 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.**

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

**Specialised Units**

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

|                 |                                  |
|-----------------|----------------------------------|
| <b>301046.1</b> | Big Data                         |
| <b>301044.1</b> | Data Science                     |
| <b>301042.1</b> | Cloud Computing                  |
| <b>301043.2</b> | Mobile Computing                 |
| <b>300599.3</b> | Advanced Robotics                |
| <b>301020.1</b> | Advanced Mobile Robotics         |
| <b>301041.1</b> | Service Oriented Architecture    |
| <b>300694.3</b> | Advanced Topics in ICT           |
| <b>300255.2</b> | Network Management               |
| <b>301175.1</b> | Internet of Things               |
| <b>300252.3</b> | Advanced Topics in Networking    |
| <b>300256.2</b> | Multimedia Communication Systems |
| <b>300389.2</b> | Wireless Networking              |
| <b>300443.2</b> | Web Engineering                  |
| <b>300769.3</b> | Intelligent Agents for E-Markets |
| <b>300692.2</b> | Workflow Management Systems      |



|                 |  |
|-----------------|--|
| <b>300770.3</b> | Software Testing and Automation          |
| <b>301028.1</b> | Advanced Healthcare Data Environments    |
| <b>301029.1</b> | Advanced Healthcare Software and Systems |
| <b>301162.1</b> | Information Security Management          |
| <b>301114.1</b> | The Nature of Data                       |
| <b>301044.1</b> | Data Science                             |
| <b>301117.1</b> | Predictive Analytics                     |
| <b>301112.1</b> | Visualisation                            |
| <b>301113.1</b> | Programming for Data Science             |
| <b>301116.1</b> | Social Media Intelligence                |

## Multi-disciplinary Units

A maximum of four units are allowed from this list.

|                 |  |
|-----------------|--|
| <b>200820.2</b> | The Contemporary Business Environment          |
| <b>200825.2</b> | Understanding Contemporary Organisations       |
| <b>200821.2</b> | Financial Reports for Decision Making          |
| <b>200826.1</b> | Contemporary People Management                 |
| <b>200841.2</b> | Strategic Business Management                  |
| <b>200848.2</b> | Governance, Ethics and Social Entrepreneurship |
| <b>200425.4</b> | Economics                                      |
| <b>200852.1</b> | Innovation, Creativity and Foresight           |
| <b>200849.1</b> | New Venture Finance                            |
| <b>200851.1</b> | Innovation for New Markets                     |
| <b>200845.1</b> | Innovation Through Digital Technology          |
| <b>200850.1</b> | Entrepreneurial Management Capabilities        |
| <b>200971.1</b> | Start-up                                       |
| <b>101743.2</b> | Mobile Media                                   |
| <b>102412.1</b> | Global Digital Futures                         |
| <b>101962.1</b> | Researching Convergent Media                   |
| <b>102424.1</b> | Cyber Justice                                  |
| <b>102300.1</b> | Foundations of Media Arts Production (PG)      |
| <b>101423.3</b> | Media Project Proposal                         |

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

### A3022.1

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 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

|                 |   |
|-----------------|---|
| <b>300695.2</b> | Network Technologies                          |
| <b>301005.1</b> | Professional Practice and Communication       |
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |
| <b>300260.2</b> | IT Project Management                         |
| <b>300597.4</b> | Master Project 1                              |

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

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                          |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |
| <b>301045.2</b> | Advanced Topics in User System Interaction       |

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

|                 |               |
|-----------------|---------------|
| <b>301047.1</b> | ICT Practicum |
|-----------------|---------------|

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

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

### Parramatta campus

|                 |                                 |
|-----------------|---------------------------------|
| <b>ST3053.1</b> | Data Analytics                  |
| <b>ST3052.1</b> | Digital Futures                 |
| <b>ST3033.1</b> | Distributed Computing           |
| <b>ST3036.1</b> | Health Informatics              |
| <b>ST3051.1</b> | Innovation and Entrepreneurship |
| <b>ST3034.1</b> | Management                      |
| <b>ST3049.1</b> | Networking                      |
| <b>ST3050.1</b> | Web and Mobile Computing        |

### Sydney City campus

|                 |                          |
|-----------------|--------------------------|
| <b>ST3049.1</b> | Networking               |
| <b>ST3050.1</b> | Web and Mobile Computing |

## Full Time - Start Year Intake

### Year 1

#### Autumn session

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                          |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |
| <b>300695.2</b> | Network Technologies                             |
| <b>301005.1</b> | Professional Practice and Communication          |

#### Spring session

|                 |   |
|-----------------|---|
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |
|-----------------|---|

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

### Year 2

#### Autumn session

|                 |  |
|-----------------|--|
| <b>301045.2</b> | 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  
**301005.1** Professional Practice and Communication

##### Autumn session

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

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

#### Year 2

##### Spring session

- 300597.4** Master Project 1

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

##### Autumn session

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

### Foundation Units

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

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

### Specialised Units

- 301046.1** Big Data

- 301044.1** Data Science  
**301042.1** Cloud Computing  
**301043.2** Mobile Computing  
**300599.3** Advanced Robotics  
**301020.1** Advanced Mobile Robotics  
**301041.1** Service Oriented Architecture  
**300694.3** Advanced Topics in ICT  
**300255.2** Network Management  
**301175.1** Internet of Things  
**300252.3** Advanced Topics in Networking  
**300256.2** Multimedia Communication Systems  
**300389.2** Wireless Networking  
**300443.2** Web Engineering  
**300769.3** Intelligent Agents for E-Markets  
**300692.2** Workflow Management Systems  
**300770.3** Software Testing and Automation  
**301028.1** Advanced Healthcare Data Environments  
**301029.1** Advanced Healthcare Software and Systems  
**301162.1** Information Security Management  
**301114.1** The Nature of Data  
**301044.1** Data Science  
**301117.1** Predictive Analytics  
**301112.1** Visualisation  
**301113.1** Programming for Data Science  
**301116.1** Social Media Intelligence

### Multi-disciplinary Units

**A maximum of four units are allowed from this list.**

- 200820.2** The Contemporary Business Environment  
**200825.2** Understanding Contemporary Organisations  
**200821.2** Financial Reports for Decision Making  
**200826.1** Contemporary People Management  
**200841.2** Strategic Business Management  
**200848.2** Governance, Ethics and Social Entrepreneurship  
**200425.4** Economics  
**200852.1** Innovation, Creativity and Foresight  
**200849.1** New Venture Finance  
**200851.1** Innovation for New Markets  
**200845.1** Innovation Through Digital Technology  
**200850.1** Entrepreneurial Management Capabilities  
**200971.1** Start-up  
**101743.2** Mobile Media  
**102412.1** Global Digital Futures  
**101962.1** Researching Convergent Media  
**102424.1** Cyber Justice  
**102300.1** Foundations of Media Arts Production (PG)  
**101423.3** Media Project Proposal

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

#### A3023.1

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

|                 |   |
|-----------------|---|
| <b>300695.2</b> | Network Technologies                          |
| <b>301005.1</b> | Professional Practice and Communication       |
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |
| <b>300260.2</b> | IT Project Management                         |
| <b>300597.4</b> | Master Project 1                              |

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

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                          |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |
| <b>301045.2</b> | Advanced Topics in User System Interaction       |

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

|                 |               |
|-----------------|---------------|
| <b>301047.1</b> | ICT Practicum |
|-----------------|---------------|

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

### Parramatta campus

|                 |  |
|-----------------|--|
| <b>ST3053.1</b> | Data Analytics                             |
| <b>ST3052.1</b> | Digital Futures                            |
| <b>ST3033.1</b> | Distributed Computing                      |
| <b>ST3036.1</b> | Health Informatics                         |
| <b>ST3051.1</b> | Innovation and Entrepreneurship Management |
| <b>ST3034.1</b> | Management                                 |
| <b>ST3049.1</b> | Networking                                 |
| <b>ST3050.1</b> | Web and Mobile Computing                   |

### Sydney City campus

|                 |                          |
|-----------------|--------------------------|
| <b>ST3049.1</b> | Networking               |
| <b>ST3050.1</b> | Web and Mobile Computing |

## Full Time - Start Year Intake

### Year 1

#### Autumn session

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                          |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |
| <b>300695.2</b> | Network Technologies                             |
| <b>301005.1</b> | Professional Practice and Communication          |

#### Spring session

|                 |   |
|-----------------|---|
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |
|-----------------|---|

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

### Year 2

#### Autumn session

|                 |  |
|-----------------|--|
| <b>301045.2</b> | Advanced Topics in User System Interaction |
| <b>300260.2</b> | IT Project Management                      |
| <b>300597.4</b> | Master Project 1                           |

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

## Full Time - Mid-Year Intake

### Year 1

#### Spring session

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                          |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |
| <b>300695.2</b> | Network Technologies                             |
| <b>301005.1</b> | Professional Practice and Communication          |

#### Autumn session

|                 |   |
|-----------------|---|
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |
| <b>301045.2</b> | Advanced Topics in User System Interaction    |
| <b>300260.2</b> | IT Project Management                         |

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

### Year 2

#### Spring session

|                 |                  |
|-----------------|------------------|
| <b>300597.4</b> | 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.**

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

## Specialised Units

|          |  |
|----------|--|
| 301046.1 | Big Data                                 |
| 301044.1 | Data Science                             |
| 301042.1 | Cloud Computing                          |
| 301043.2 | Mobile Computing                         |
| 300599.3 | Advanced Robotics                        |
| 301020.1 | Advanced Mobile Robotics                 |
| 301041.1 | Service Oriented Architecture            |
| 300694.3 | Advanced Topics in ICT                   |
| 300255.2 | Network Management                       |
| 301175.1 | Internet of Things                       |
| 300252.3 | Advanced Topics in Networking            |
| 300256.2 | Multimedia Communication Systems         |
| 300389.2 | Wireless Networking                      |
| 300443.2 | Web Engineering                          |
| 300769.3 | Intelligent Agents for E-Markets         |
| 300692.2 | Workflow Management Systems              |
| 300770.3 | Software Testing and Automation          |
| 301028.1 | Advanced Healthcare Data Environments    |
| 301029.1 | Advanced Healthcare Software and Systems |
| 301162.1 | Information Security Management          |
| 301114.1 | The Nature of Data                       |
| 301044.1 | Data Science                             |
| 301117.1 | Predictive Analytics                     |
| 301112.1 | Visualisation                            |
| 301113.1 | Programming for Data Science             |
| 301116.1 | Social Media Intelligence                |

## Multi-disciplinary Units

A maximum of four units are allowed from this list.

|          |  |
|----------|--|
| 200820.2 | The Contemporary Business Environment          |
| 200825.2 | Understanding Contemporary Organisations       |
| 200821.2 | Financial Reports for Decision Making          |
| 200826.1 | Contemporary People Management                 |
| 200841.2 | Strategic Business Management                  |
| 200848.2 | Governance, Ethics and Social Entrepreneurship |
| 200425.4 | Economics                                      |
| 200852.1 | Innovation, Creativity and Foresight           |
| 200849.1 | New Venture Finance                            |
| 200851.1 | Innovation for New Markets                     |
| 200845.1 | Innovation Through Digital Technology          |
| 200850.1 | Entrepreneurial Management Capabilities        |
| 200971.1 | Start-up                                       |
| 101743.2 | Mobile Media                                   |
| 102412.1 | Global Digital Futures                         |
| 101962.1 | Researching Convergent Media                   |
| 102424.1 | Cyber Justice                                  |
| 102300.1 | Foundations of Media Arts Production (PG)      |
| 101423.3 | Media Project Proposal                         |

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

### A3024.1

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 Master of Information and Communications Technology to complete this specialisation.

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

## Core Units

|          |   |
|----------|---|
| 300695.2 | Network Technologies                          |
| 300260.2 | IT Project Management                         |
| 301005.1 | Professional Practice and Communication       |
| 301004.1 | Research Preparation in Post Graduate Studies |
| 300597.4 | Master Project 1                              |

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

|          |               |
|----------|---------------|
| 301047.1 | ICT Practicum |
|----------|---------------|

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

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

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

## Parramatta campus

|          |                                 |
|----------|---------------------------------|
| ST3053.1 | Data Analytics                  |
| ST3052.1 | Digital Futures                 |
| ST3033.1 | Distributed Computing           |
| ST3036.1 | 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 |

**301005.1** Professional Practice and Communication

And one unit from Foundation or Specialised unit lists.

**Spring session****301004.1** Research Preparation in Post Graduate Studies

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

**Year 2****Autumn session****300597.4** Master Project 1

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

**Full Time - Mid-Year Intake****Year 1****Spring session****300695.2** Network Technologies  
**301005.1** Professional Practice and Communication

And two units from Foundation or Specialised unit lists.

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

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

**Year 2****Spring session****300597.4** 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.**

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

**Specialised Units**

- 301046.1** Big Data
- 301044.1** Data Science
- 301042.1** Cloud Computing
- 301043.2** Mobile Computing
- 300599.3** Advanced Robotics
- 301020.1** Advanced Mobile Robotics
- 301041.1** Service Oriented Architecture
- 300694.3** Advanced Topics in ICT
- 300255.2** Network Management
- 301175.1** Internet of Things
- 300252.3** Advanced Topics in Networking
- 300256.2** Multimedia Communication Systems
- 300389.2** Wireless Networking
- 300443.2** Web Engineering
- 300769.3** Intelligent Agents for E-Markets
- 300692.2** Workflow Management Systems
- 300770.3** Software Testing and Automation
- 301028.1** Advanced Healthcare Data Environments
- 301029.1** Advanced Healthcare Software and Systems
- 301162.1** Information Security Management
- 301114.1** The Nature of Data
- 301044.1** Data Science
- 301117.1** Predictive Analytics
- 301112.1** Visualisation
- 301113.1** Programming for Data Science
- 301116.1** Social Media Intelligence

**Multi-disciplinary Units**

**A maximum of four units are allowed from this list.**

- 200820.2** The Contemporary Business Environment
- 200825.2** Understanding Contemporary Organisations
- 200821.2** Financial Reports for Decision Making
- 200826.1** Contemporary People Management
- 200841.2** Strategic Business Management
- 200848.2** Governance, Ethics and Social Entrepreneurship
- 200425.4** Economics
- 200852.1** Innovation, Creativity and Foresight
- 200849.1** New Venture Finance
- 200851.1** Innovation for New Markets
- 200845.1** Innovation Through Digital Technology
- 200850.1** Entrepreneurial Management Capabilities
- 200971.1** Start-up
- 101743.2** Mobile Media
- 102412.1** Global Digital Futures
- 101962.1** Researching Convergent Media
- 102424.1** Cyber Justice
- 102300.1** Foundations of Media Arts Production (PG)
- 101423.3** Media Project Proposal

**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

|                 |   |
|-----------------|---|
| <b>300260.2</b> | IT Project Management                   |
| <b>300695.2</b> | Network Technologies                    |
| <b>301005.1</b> | Professional Practice and Communication |

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

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                          |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |
| <b>301045.2</b> | Advanced Topics in User System Interaction       |

And six units from Foundation or Specialised unit lists.

### Full Time - Start Year Intake

#### Year 1

##### Autumn session

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                          |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |
| <b>301045.2</b> | Advanced Topics in User System Interaction       |
| <b>300260.2</b> | IT Project Management                            |

##### Spring session

|                 |   |
|-----------------|---|
| <b>300695.2</b> | Network Technologies                    |
| <b>301005.1</b> | 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

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                          |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |
| <b>300695.2</b> | Network Technologies                             |
| <b>301005.1</b> | Professional Practice and Communication          |

### Autumn session

|                 |  |
|-----------------|--|
| <b>301045.2</b> | Advanced Topics in User System Interaction |
| <b>300260.2</b> | 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.**

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

### Specialised Units

|                 |  |
|-----------------|--|
| <b>301046.1</b> | Big Data                                 |
| <b>301044.1</b> | Data Science                             |
| <b>301042.1</b> | Cloud Computing                          |
| <b>301043.2</b> | Mobile Computing                         |
| <b>300599.3</b> | Advanced Robotics                        |
| <b>301020.1</b> | Advanced Mobile Robotics                 |
| <b>301041.1</b> | Service Oriented Architecture            |
| <b>300694.3</b> | Advanced Topics in ICT                   |
| <b>300255.2</b> | Network Management                       |
| <b>300252.3</b> | Advanced Topics in Networking            |
| <b>300256.2</b> | Multimedia Communication Systems         |
| <b>300389.2</b> | Wireless Networking                      |
| <b>300443.2</b> | Web Engineering                          |
| <b>300769.3</b> | Intelligent Agents for E-Markets         |
| <b>300692.2</b> | Workflow Management Systems              |
| <b>300770.3</b> | Software Testing and Automation          |
| <b>301028.1</b> | Advanced Healthcare Data Environments    |
| <b>301029.1</b> | Advanced Healthcare Software and Systems |
| <b>301175.1</b> | Internet of Things                       |
| <b>301162.1</b> | Information Security Management          |

### 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

|                 |   |
|-----------------|---|
| <b>300260.2</b> | IT Project Management                   |
| <b>300695.2</b> | Network Technologies                    |
| <b>301005.1</b> | Professional Practice and Communication |

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

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                          |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |
| <b>301045.2</b> | Advanced Topics in User System Interaction       |

And two units from Foundation or Specialised unit lists.

### Full Time - Start Year Intake

#### Year 1

##### Autumn session

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                          |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |
| <b>301045.2</b> | Advanced Topics in User System Interaction       |
| <b>300260.2</b> | IT Project Management                            |

##### Spring session

|                 |   |
|-----------------|---|
| <b>300695.2</b> | Network Technologies                    |
| <b>301005.1</b> | Professional Practice and Communication |

And two units from Foundation or Specialised unit lists.

### Full Time - Mid-Year Intake

#### Year 1

##### Spring session

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                          |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |
| <b>300695.2</b> | Network Technologies                             |
| <b>301005.1</b> | Professional Practice and Communication          |

##### Autumn session

|                 |  |
|-----------------|--|
| <b>301045.2</b> | Advanced Topics in User System Interaction |
| <b>300260.2</b> | 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.**

|                 |   |
|-----------------|---|
| <b>301005.1</b> | Professional Practice and Communication |
|-----------------|---|

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

### Specialised Units

|                 |  |
|-----------------|--|
| <b>301046.1</b> | Big Data                                 |
| <b>301044.1</b> | Data Science                             |
| <b>301042.1</b> | Cloud Computing                          |
| <b>301043.2</b> | Mobile Computing                         |
| <b>300599.3</b> | Advanced Robotics                        |
| <b>301020.1</b> | Advanced Mobile Robotics                 |
| <b>301041.1</b> | Service Oriented Architecture            |
| <b>300694.3</b> | Advanced Topics in ICT                   |
| <b>300255.2</b> | Network Management                       |
| <b>300252.3</b> | Advanced Topics in Networking            |
| <b>300256.2</b> | Multimedia Communication Systems         |
| <b>300389.2</b> | Wireless Networking                      |
| <b>300443.2</b> | Web Engineering                          |
| <b>300769.3</b> | Intelligent Agents for E-Markets         |
| <b>300692.2</b> | Workflow Management Systems              |
| <b>300770.3</b> | Software Testing and Automation          |
| <b>301028.1</b> | Advanced Healthcare Data Environments    |
| <b>301029.1</b> | Advanced Healthcare Software and Systems |
| <b>301175.1</b> | Internet of Things                       |
| <b>301162.1</b> | Information Security Management          |

### 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**

|                 |   |
|-----------------|---|
| <b>300695.2</b> | Network Technologies                    |
| <b>300260.2</b> | IT Project Management                   |
| <b>301005.1</b> | Professional Practice and Communication |

And five units from Foundation or Specialised units lists.

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

|                 |   |
|-----------------|---|
| <b>300695.2</b> | Network Technologies                    |
| <b>300260.2</b> | IT Project Management                   |
| <b>301005.1</b> | 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**

|                 |   |
|-----------------|---|
| <b>300695.2</b> | Network Technologies                    |
| <b>301005.1</b> | Professional Practice and Communication |
| <b>300260.2</b> | 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.**

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

**Specialised Units**

|                 |                   |
|-----------------|-------------------|
| <b>301046.1</b> | Big Data          |
| <b>301044.1</b> | Data Science      |
| <b>301042.1</b> | Cloud Computing   |
| <b>301043.2</b> | Mobile Computing  |
| <b>300599.3</b> | Advanced Robotics |

|                 |  |
|-----------------|--|
| <b>301020.1</b> | Advanced Mobile Robotics                 |
| <b>301041.1</b> | Service Oriented Architecture            |
| <b>300694.3</b> | Advanced Topics in ICT                   |
| <b>300255.2</b> | Network Management                       |
| <b>300252.3</b> | Advanced Topics in Networking            |
| <b>300256.2</b> | Multimedia Communication Systems         |
| <b>300389.2</b> | Wireless Networking                      |
| <b>300443.2</b> | Web Engineering                          |
| <b>300769.3</b> | Intelligent Agents for E-Markets         |
| <b>300692.2</b> | Workflow Management Systems              |
| <b>300770.3</b> | Software Testing and Automation          |
| <b>301028.1</b> | Advanced Healthcare Data Environments    |
| <b>301029.1</b> | Advanced Healthcare Software and Systems |
| <b>301175.1</b> | Internet of Things                       |
| <b>301162.1</b> | Information Security Management          |

**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**

|                 |   |
|-----------------|---|
| <b>301005.1</b> | Professional Practice and Communication |
|-----------------|---|

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

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                          |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |

And five units from Foundation unit list.

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

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                          |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |
| <b>301005.1</b> | 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

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                          |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |
| <b>301005.1</b> | 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.**

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

### 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

|                 |   |
|-----------------|---|
| <b>301005.1</b> | Professional Practice and Communication |
|-----------------|---|

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

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                          |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |

One unit from Foundation unit list.

### Full Time - Start Year Intake

#### Year 1

#### Autumn session

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                          |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |
| <b>301005.1</b> | Professional Practice and Communication          |

And one unit from Foundation unit list.

### Full Time - Mid-Year Intake

#### Year 1

#### Spring session

|                 |  |
|-----------------|--|
| <b>301038.2</b> | Programming Proficiency                          |
| <b>300977.2</b> | Systems Analysis and Database Management Systems |
| <b>301005.1</b> | 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.**

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

### 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

**301005.1** Professional Practice and Communication

And three units from Foundation unit list.

### Full Time - Start Year Intake

#### Year 1

#### Autumn session

**301005.1** Professional Practice and Communication

And three units from Foundation unit list.

### Full Time - Mid-Year Intake

#### Year 1

#### Spring session

**301005.1** Professional Practice and Communication

And three units from Foundation unit list.

### Foundation Units

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

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

## Postgraduate Specialisation - Civil

### ST3027.1

#### Location

| Campus            | Mode     |
|-------------------|----------|
| Parramatta Campus | 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.**

Students who wish to graduate with a Civil specialisation must complete the eight core units and five specialist units from the list below plus three 10 credit point elective units.

**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

- 301002.1** Specialised Software Applications
- 300597.4** Master Project 1
- 300598.5** Master Project 2
- 301003.1** Sustainable Systems
- 301004.1** Research Preparation in Post Graduate Studies
- 301005.1** Professional Practice and Communication
- 301006.1** Advanced Engineering Project 1
- 301007.1** Advanced Engineering Project 2

#### Civil Specialised Alternate units

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

Choose five specialised alternates from the list below.

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

**Postgraduate Specialisation - Electrical****ST3028.1****Location**

| Campus            | Mode     |
|-------------------|----------|
| Parramatta Campus | 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.**

Students who wish to graduate with an Electrical specialisation must complete the eight core units and five specialist units from the list below plus three 10 credit point elective units.

**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**

|                 |   |
|-----------------|---|
| <b>301002.1</b> | Specialised Software Applications             |
| <b>300597.4</b> | Master Project 1                              |
| <b>300598.5</b> | Master Project 2                              |
| <b>301003.1</b> | Sustainable Systems                           |
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |
| <b>301005.1</b> | Professional Practice and Communication       |
| <b>301006.1</b> | Advanced Engineering Project 1                |
| <b>301007.1</b> | Advanced Engineering Project 2                |

**Electrical Specialised Alternate units**

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

Choose five specialised alternates from the list below.

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

**Postgraduate Specialisation - Environmental****ST3029.1****Location**

| Campus            | Mode     |
|-------------------|----------|
| Parramatta Campus | 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.**

Students who wish to graduate with an Environmental specialisation must complete the eight core units and five specialist units from the list below plus three 10 credit point elective units.

**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**

|                 |   |
|-----------------|---|
| <b>301002.1</b> | Specialised Software Applications             |
| <b>300597.4</b> | Master Project 1                              |
| <b>300598.5</b> | Master Project 2                              |
| <b>301003.1</b> | Sustainable Systems                           |
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |
| <b>301005.1</b> | Professional Practice and Communication       |
| <b>301006.1</b> | Advanced Engineering Project 1                |
| <b>301007.1</b> | Advanced Engineering Project 2                |

**Environmental Specialised Alternate units**

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

Choose five specialised alternates from the list below.

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



**Postgraduate Specialisation - Mechanical****ST3030.1****Location**

| Campus            | Mode     |
|-------------------|----------|
| Parramatta Campus | 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.**

Students who wish to graduate with a Mechanical specialisation must complete the eight core units and five specialist units from the list below plus three 10 credit point elective units.

**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**

|                 |   |
|-----------------|---|
| <b>301002.1</b> | Specialised Software Applications             |
| <b>300597.4</b> | Master Project 1                              |
| <b>300598.5</b> | Master Project 2                              |
| <b>301003.1</b> | Sustainable Systems                           |
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |
| <b>301005.1</b> | Professional Practice and Communication       |
| <b>301006.1</b> | Advanced Engineering Project 1                |
| <b>301007.1</b> | Advanced Engineering Project 2                |

**Mechanical Specialised Alternate units**

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

Choose five specialised alternates from the list below.

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

**Postgraduate Specialisation - Mechatronics****ST3031.1****Location**

| Campus            | Mode     |
|-------------------|----------|
| Parramatta Campus | 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.**

Students who wish to graduate with a Mechatronic specialisation must complete the eight core units and five specialist units from the list below plus three 10 credit point elective units.

**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**

|                 |   |
|-----------------|---|
| <b>301002.1</b> | Specialised Software Applications             |
| <b>300597.4</b> | Master Project 1                              |
| <b>300598.5</b> | Master Project 2                              |
| <b>301003.1</b> | Sustainable Systems                           |
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |
| <b>301005.1</b> | Professional Practice and Communication       |
| <b>301006.1</b> | Advanced Engineering Project 1                |
| <b>301007.1</b> | Advanced Engineering Project 2                |

**Mechatronic Specialised Alternate units**

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

Choose five specialised alternates from the list below.

|                 |   |
|-----------------|---|
| <b>301018.1</b> | Mechanical System Design                |
| <b>300599.3</b> | Advanced Robotics                       |
| <b>301019.1</b> | Advanced Dynamic Systems                |
| <b>300600.3</b> | Mechatronic System Design               |
| <b>301020.1</b> | Advanced Mobile Robotics                |
| <b>300601.3</b> | Advanced Electrical Machines and Drives |
| <b>300603.3</b> | Advanced Control Systems                |

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

| Campus            | Mode     |
|-------------------|----------|
| Parramatta Campus | 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.**

Students who wish to graduate with a Telecommunication specialisation must complete the eight core units and five specialist units from the list below plus three 10 credit point elective units.

**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**

|                 |   |
|-----------------|---|
| <b>301002.1</b> | Specialised Software Applications             |
| <b>300597.4</b> | Master Project 1                              |
| <b>300598.5</b> | Master Project 2                              |
| <b>301003.1</b> | Sustainable Systems                           |
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |
| <b>301005.1</b> | Professional Practice and Communication       |
| <b>301006.1</b> | Advanced Engineering Project 1                |
| <b>301007.1</b> | Advanced Engineering Project 2                |

**Telecommunication Specialised Alternate units**

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

Choose five specialised alternates from the list below.

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

**Postgraduate Specialisation - Distributed Computing****ST3033.1**

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

**Location**

| Campus            | Mode     |
|-------------------|----------|
| Parramatta Campus | Internal |

**Specialisation Structure**

Students must complete the following four units

|                 |                               |
|-----------------|-------------------------------|
| <b>301042.1</b> | Cloud Computing               |
| <b>301046.1</b> | Big Data                      |
| <b>301041.1</b> | Service Oriented Architecture |
| <b>300696.2</b> | Systems and Network Security  |

**Postgraduate Specialisation - Management****ST3034.1**

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

**Location**

| Campus            | Mode     |
|-------------------|----------|
| Parramatta Campus | Internal |

**Specialisation Structure**

Students must complete

|                 |  |
|-----------------|--|
| <b>200820.2</b> | The Contemporary Business Environment    |
| <b>200821.2</b> | Financial Reports for Decision Making    |
| <b>200825.2</b> | Understanding Contemporary Organisations |

And one unit from the following

|                 |                                |
|-----------------|--------------------------------|
| <b>200826.1</b> | Contemporary People Management |
|-----------------|--------------------------------|

|                 |  |
|-----------------|--|
| <b>200848.2</b> | Governance, Ethics and Social Entrepreneurship |
| <b>200425.4</b> | Economics                                      |
| <b>200841.2</b> | Strategic Business Management                  |

## Postgraduate Specialisation - Health Informatics

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### ST3036.1

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

### Location

| Campus            | Mode     |
|-------------------|----------|
| Parramatta Campus | Internal |

### Specialisation Structure

Students must complete four units

|                 |  |
|-----------------|--|
| <b>301028.1</b> | Advanced Healthcare Data Environments    |
| <b>301029.1</b> | Advanced Healthcare Software and Systems |

Choose one of

|                 |  |
|-----------------|--|
| <b>300977.2</b> | Systems Analysis and Database Management Systems |
| <b>300696.2</b> | Systems and Network Security                     |

Choose one of

|                 |                                 |
|-----------------|---------------------------------|
| <b>300692.2</b> | Workflow Management Systems     |
| <b>300770.3</b> | Software Testing and Automation |

## Postgraduate Specialisation - Civil

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### ST3037.1

### Specialisation Structure

**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.**

Students who wish to graduate with a Civil specialisation must complete the six core units and four specialist units from the list below plus two 10 credit point elective units.

**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

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

### Civil Specialised Alternate units

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

Choose four specialised alternates from the list below.

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

## Postgraduate Specialisation - Electrical

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### ST3038.1

### Specialisation Structure

**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.**

Students who wish to graduate with an Electrical specialisation must complete the six core units and four specialist units from the list below plus two 10 credit point elective units.

**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

|                 |   |
|-----------------|---|
| <b>301002.1</b> | Specialised Software Applications             |
| <b>301003.1</b> | Sustainable Systems                           |
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |

|                 |   |
|-----------------|---|
| <b>301005.1</b> | Professional Practice and Communication |
| <b>301006.1</b> | Advanced Engineering Project 1          |
| <b>301007.1</b> | Advanced Engineering Project 2          |

### Electrical Specialised Alternate units

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

Choose four specialised alternates from the list below.

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

### Postgraduate Specialisation - Environmental

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#### ST3039.1

#### Specialisation Structure

**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.**

Students who wish to graduate with an Environmental specialisation must complete the six core units and four specialist units from the list below plus two 10 credit point elective units.

**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

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

### Environmental Specialised Alternate units

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

Choose four specialised alternates from the list below.

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

### Postgraduate Specialisation - Mechanical

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#### ST3040.1

#### Specialisation Structure

**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.**

Students who wish to graduate with a Mechanical specialisation must complete the six core units and four specialist units from the list below plus two 10 credit point elective units.

**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

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

### Mechanical Specialised Alternate units

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

Choose four specialised alternates from the list below.

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

### Postgraduate Specialisation - Mechatronic

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#### ST3041.1

#### Specialisation Structure

**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.**

Students who wish to graduate with a Mechatronic specialisation must complete the six core units and four specialist units from the list below plus two 10 credit point elective units.

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

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

### Mechatronic Specialised Alternate units

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

Choose four specialised alternates from the list below.

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

### Postgraduate Specialisation - Telecommunications

#### ST3042.1

#### Specialisation Structure

**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.**

Students who wish to graduate with a Telecommunication specialisation must complete the six core units and four specialist units from the list below plus two 10 credit point elective units.

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

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

### Telecommunication Specialised Alternate units

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

Choose four specialised alternates from the list below.

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

### Postgraduate Specialisation - Civil

#### ST3043.1

#### Location

| Campus            | Mode     |
|-------------------|----------|
| Parramatta 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.**

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

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

### Civil Specialised Alternate units

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

Choose four specialised alternates from the list below.

|          |   |
|----------|---|
| 301024.1 | Advanced Numerical Methods in Engineering |
| 300594.4 | Advanced Structural Analysis              |
| 300595.3 | Advanced Water Engineering                |
| 300604.3 | Advanced Geotechnical Engineering         |
| 300939.2 | Sustainability and Risk Engineering (PG)  |
| 301008.1 | Advanced Composite Structures             |
| 301009.1 | Advanced Timber Structures                |



|          |   |
|----------|---|
| 301010.1 | Advanced Applied Mechanics              |
| 301011.1 | Advanced Highway Infrastructure         |
| 301012.1 | Water Resources Systems Analysis        |
| 301013.1 | Advanced Statistical Hydrology          |
| 301014.1 | Advanced Hydrogeology                   |
| 301015.1 | Deep Foundations                        |
| 301016.1 | Advanced Water and Wastewater Treatment |
| 301017.1 | Advanced Waste Management               |

### Postgraduate Specialisation - Electrical

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#### ST3044.1

##### Location

| Campus            | Mode     |
|-------------------|----------|
| Parramatta 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.**

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

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

##### Electrical Specialised Alternate units

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

Choose four specialised alternates from the list below.

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

### Postgraduate Specialisation - Environmental

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#### ST3045.1

##### Location

| Campus            | Mode     |
|-------------------|----------|
| Parramatta 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.**

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

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

##### Environmental Specialised Alternate units

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

Choose four specialised alternates from the list below.

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

### Postgraduate Specialisation - Mechanical

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#### ST3046.1

##### Location

| Campus            | Mode     |
|-------------------|----------|
| Parramatta 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.**

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

|                 |   |
|-----------------|---|
| <b>301003.1</b> | Sustainable Systems                           |
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |
| <b>301005.1</b> | Professional Practice and Communication       |
| <b>301006.1</b> | Advanced Engineering Project 1                |

### Mechanical Specialised Alternate units

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

Choose four specialised alternates from the list below.

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

### Postgraduate Specialisation - Mechatronic

#### **ST3047.1**

#### Location

| Campus            | Mode     |
|-------------------|----------|
| Parramatta 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.**

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

|                 |   |
|-----------------|---|
| <b>301003.1</b> | Sustainable Systems                           |
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |
| <b>301005.1</b> | Professional Practice and Communication       |
| <b>301006.1</b> | Advanced Engineering Project 1                |

### Mechatronic Specialised Alternate units

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

Choose four specialised alternates from the list below.

|                 |   |
|-----------------|---|
| <b>301018.1</b> | Mechanical System Design                |
| <b>300599.3</b> | Advanced Robotics                       |
| <b>301019.1</b> | Advanced Dynamic Systems                |
| <b>300600.3</b> | Mechatronic System Design               |
| <b>301020.1</b> | Advanced Mobile Robotics                |
| <b>300601.3</b> | Advanced Electrical Machines and Drives |
| <b>300603.3</b> | Advanced Control Systems                |

### Postgraduate Specialisation - Telecommunication

#### **ST3048.1**

#### Location

| Campus            | Mode     |
|-------------------|----------|
| Parramatta 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.**

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

|                 |   |
|-----------------|---|
| <b>301003.1</b> | Sustainable Systems                           |
| <b>301004.1</b> | Research Preparation in Post Graduate Studies |
| <b>301005.1</b> | Professional Practice and Communication       |
| <b>301006.1</b> | Advanced Engineering Project 1                |

## Telecommunication Specialised Alternate units

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

Choose four specialised alternates from the list below.

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

## Postgraduate Specialisation - Networking

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### 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  | Internal |
| Sydney City Campus | Internal |

#### Specialisation Structure

Students must complete four units from the following

|                 |                                  |
|-----------------|----------------------------------|
| <b>300252.3</b> | Advanced Topics in Networking    |
| <b>300256.2</b> | Multimedia Communication Systems |
| <b>301175.1</b> | Internet of Things               |
| <b>300696.2</b> | Systems and Network Security     |
| <b>300389.2</b> | Wireless Networking              |

## Postgraduate Specialisation - Web and Mobile Computing

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### 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  | Internal |
| Sydney City Campus | Internal |

#### Specialisation Structure

Students must complete the following four units

|                 |  |
|-----------------|--|
| <b>300443.2</b> | Web Engineering                            |
| <b>301043.2</b> | Mobile Computing                           |
| <b>301045.2</b> | Advanced Topics in User System Interaction |
| <b>300770.3</b> | Software Testing and Automation            |

## Postgraduate Specialisation - Innovation and Entrepreneurship

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### 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 | Internal |

#### Specialisation Structure

Students must complete the following two units

|                 |                                      |
|-----------------|--------------------------------------|
| <b>200852.1</b> | Innovation, Creativity and Foresight |
| <b>200849.1</b> | New Venture Finance                  |

And two units or 20 credit points from the following

|                 |   |
|-----------------|---|
| <b>200851.1</b> | Innovation for New Markets              |
| <b>200845.1</b> | Innovation Through Digital Technology   |
| <b>200850.1</b> | Entrepreneurial Management Capabilities |
| <b>200971.1</b> | Start-up                                |

## Postgraduate Specialisation - Digital Futures

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### 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 | Internal |

#### Specialisation Structure

Students must complete the following two units

|                 |                        |
|-----------------|------------------------|
| <b>101743.2</b> | Mobile Media           |
| <b>102412.1</b> | Global Digital Futures |

And two units or 20cp from the following

|                 |   |
|-----------------|---|
| <b>101962.1</b> | Researching Convergent Media              |
| <b>102424.1</b> | Cyber Justice                             |
| <b>102300.1</b> | Foundations of Media Arts Production (PG) |
| <b>101423.3</b> | Media Project Proposal                    |

## Postgraduate Specialisation - Data Analytics

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### 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 | Multi Modal |

#### Specialisation Structure

Students must complete the following three units

|                 |                      |
|-----------------|----------------------|
| <b>301114.1</b> | The Nature of Data   |
| <b>301044.1</b> | Data Science         |
| <b>301117.1</b> | Predictive Analytics |

And one unit from the following

|                 |                              |
|-----------------|------------------------------|
| <b>301112.1</b> | Visualisation                |
| <b>301113.1</b> | Programming for Data Science |
| <b>301116.1</b> | Social Media Intelligence    |

## SCHOOL OF SCIENCE AND HEALTH

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### Master of Chinese Medicine

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#### 4716.1

The Master of Chinese Medicine is a postgraduate qualification designed for Chinese medicine practitioners wishing to strengthen their knowledge and better integrate into the health care system, and for graduates with a Chinese Medicine specialisation seeking a pathway to research. It can be completed in one-and-a-half years of full-time study or the equivalent in part-time study.

The course includes two major streams: a clinical stream and research-training pathway. The clinical stream features a substantial clinical placement in a teaching hospital in China affiliated with Beijing University of Chinese Medicine (BJUCM) in addition to clinical specialisation workshops. An alternative is also available for students who do not wish to complete the clinical placement overseas. The research stream includes a significant research project which is supported by the National Institute of Complementary Medicine (NICM). Students who wish to enter the research stream have to meet entry requirements (GPA of 5); graduates of this stream may be interested in furthering their studies in a higher degree.

The course will be delivered via structured, intensive workshops and online resources with self-directed learning between workshops to allow maximum flexibility for busy practitioners.

Students who complete the Master of Chinese Medicine from 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

Or

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

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

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

Association

Group 1

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

Group 2

- Acupuncture Association of Victoria Inc (AAV)
- Acupuncture Association of Australia (AAA)
- Acupuncture Association of Australia, New Zealand and Asia (AAANZA)



- Australian Acupuncture Association Ltd / Acupuncture Ethics and Standards Organisation Ltd (AAcA/AESO)
- Australian Nurses Acupuncture Association (ANAA)
- Australian Physiotherapy Association (Acupuncture Study Group) (APA)
- Society of Natural Therapists & Researchers (SNTR)
- Shiatsu Therapy Association of Australia (STAA)
- Traditional Medicine of China Society Australia (TMSC)

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

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

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

### Course Structure

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

#### Core Units

- 401129.1** Evidence Based Practice in Chinese Medicine
- 401080.1** Research Protocol Design and Practice
- 401131.1** Clinical Applications of Classical Acupuncture
- 401130.1** Clinical Application of Classical Chinese Herbal Medicine
- 401132.1** Women's Health in Chinese Medicine
- 401133.1** Clinical Placement
- 400850.2** Professional Topic

Choose one of

- 401076.1** Introduction to Epidemiology
- 401077.1** Introduction to Biostatistics

#### Specialist Units

Students must complete 30 credit points of elective units, either from the following list or other postgraduate units with DAP approval.

- 401134.1** Musculoskeletal Health in Chinese Medicine
- 401135.1** Mental and Neurological Disorders and Chinese Medicine
- 401136.1** Clinical Oncology and Chinese Medicine
- 401137.1** Chronic and Complex Disorders in Chinese Medicine

### Master of Chinese Medicine (Research Pathway)

Note: Students require a GPA over 5.0 in order to take up the research stream option.

#### Core Units

- 401129.1** Evidence Based Practice in Chinese Medicine
- 401080.1** Research Protocol Design and Practice
- 401131.1** Clinical Applications of Classical Acupuncture
- 401130.1** Clinical Application of Classical Chinese Herbal Medicine
- 401132.1** Women's Health in Chinese Medicine
- 401138.1** Research Project and Thesis

Choose one of

- 401076.1** Introduction to Epidemiology
- 401077.1** Introduction to Biostatistics

### Graduate Diploma of Chinese Medicine (exit only)

#### Core Units

- 401129.1** Evidence Based Practice in Chinese Medicine
- 401080.1** Research Protocol Design and Practice
- 401131.1** Clinical Applications of Classical Acupuncture
- 401130.1** Clinical Application of Classical Chinese Herbal Medicine
- 401132.1** Women's Health in Chinese Medicine

Choose one of

- 401076.1** Introduction to Epidemiology
- 401077.1** Introduction to Biostatistics

Plus two electives at postgraduate level

### Graduate Certificate of Chinese Medicine (exit only)

- 401129.1** Evidence Based Practice in Chinese Medicine
- 401131.1** Clinical Applications of Classical Acupuncture
- 401130.1** Clinical Application of Classical Chinese Herbal Medicine

Choose one of

- 401076.1** Introduction to Epidemiology
- 401077.1** Introduction to Biostatistics

### Graduate Diploma in Chinese Medicine (exit only)

#### 4717.1

This is an exit course only. Applicants apply to 4716 - Master of Chinese Medicine and exit with the Graduate Diploma in Chinese Medicine.

#### Study Mode

One year full-time

**Location**

| Campus              | Attendance | Mode     |
|---------------------|------------|----------|
| Campbelltown Campus | Full Time  | Internal |
| Campbelltown Campus | Part Time  | Internal |

**Course Structure****Core Units**

|                 |   |
|-----------------|---|
| <b>401129.1</b> | Evidence Based Practice in Chinese Medicine               |
| <b>401080.1</b> | Research Protocol Design and Practice                     |
| <b>401131.1</b> | Clinical Applications of Classical Acupuncture            |
| <b>401130.1</b> | Clinical Application of Classical Chinese Herbal Medicine |
| <b>401132.1</b> | Women's Health in Chinese Medicine                        |

Choose one of

|                 |                               |
|-----------------|-------------------------------|
| <b>401076.1</b> | Introduction to Epidemiology  |
| <b>401077.1</b> | Introduction to Biostatistics |

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**

|                 |   |
|-----------------|---|
| <b>401129.1</b> | Evidence Based Practice in Chinese Medicine               |
| <b>401131.1</b> | Clinical Applications of Classical Acupuncture            |
| <b>401130.1</b> | Clinical Application of Classical Chinese Herbal Medicine |

Choose one of

|                 |                               |
|-----------------|-------------------------------|
| <b>401076.1</b> | Introduction to Epidemiology  |
| <b>401077.1</b> | 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.

**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.

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

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

**Course Structure**

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

**Compulsory units (20 credit points)**

|                 |                     |
|-----------------|---------------------|
| <b>301129.1</b> | Forensic Research 1 |
| <b>301130.1</b> | Forensic Research 2 |

**Choose at least 10 credit points from the following**

|                 |  |
|-----------------|--|
| <b>301131.1</b> | Crime Scene Investigation (PG)           |
| <b>301132.1</b> | Fingerprint Detection and Identification |

**Select the remaining credit points from**

|                 |   |
|-----------------|---|
| <b>301133.1</b> | Forensic Medicine I   |
| <b>301134.1</b> | Forensic Medicine II  |
| <b>301135.1</b> | General Toxicology  |
| <b>301136.1</b> | Forensic Toxicology I                                       |
| <b>301137.1</b> | Forensic Toxicology II                                      |
| <b>301138.1</b> | Toxic Substances  |
| <b>301139.1</b> | Drug Biotransformation and Molecular Mechanisms of Toxicity |
| <b>301140.1</b> | Medicinal Chemistry of Drugs of Abuse                       |
| <b>301141.1</b> | Natural Medicinal Products                                  |

|          |                                |
|----------|--------------------------------|
| 301142.1 | Synthetic Medicinal Chemistry  |
| 301143.1 | Pharmaceutical Analysis        |
| 301144.1 | Forensic Genetics              |
| 301145.1 | Forensic Entomology            |
| 301146.1 | Forensic Immunology            |
| 301147.1 | Forensic Anthropology (PG)     |
| 301148.1 | Forensic Analysis of DNA       |
| 301149.1 | Blood Distribution and Spatter |
| 301150.1 | Toxicology of Chemical Weapons |
| 301151.1 | Advanced Criminalistics        |
| 301152.1 | Environmental Forensics 1      |
| 301153.1 | Environmental Forensics 2      |
| 301154.1 | Biological Agents 1            |
| 301155.1 | Biological Agents 2            |
| 301156.1 | Explosives                     |

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.

## 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.

### 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.

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

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

## Course Structure

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

### Choose at least 20 credit points from the following

|          |  |
|----------|--|
| 301129.1 | Forensic Research 1                      |
| 301130.1 | Forensic Research 2                      |
| 301131.1 | Crime Scene Investigation (PG)           |
| 301132.1 | Fingerprint Detection and Identification |

### Select the remaining credit points from

|          |   |
|----------|---|
| 301133.1 | Forensic Medicine I   |
| 301134.1 | Forensic Medicine II  |
| 301135.1 | General Toxicology  |
| 301136.1 | Forensic Toxicology I                                       |
| 301137.1 | Forensic Toxicology II                                      |
| 301138.1 | Toxic Substances  |
| 301139.1 | Drug Biotransformation and Molecular Mechanisms of Toxicity |
| 301140.1 | Medicinal Chemistry of Drugs of Abuse                       |
| 301141.1 | Natural Medicinal Products                                  |
| 301142.1 | Synthetic Medicinal Chemistry                               |
| 301143.1 | Pharmaceutical Analysis                                     |
| 301144.1 | Forensic Genetics   |
| 301145.1 | Forensic Entomology   |
| 301146.1 | Forensic Immunology   |
| 301147.1 | Forensic Anthropology (PG)                                  |
| 301148.1 | Forensic Analysis of DNA                                    |
| 301149.1 | Blood Distribution and Spatter                              |
| 301150.1 | Toxicology of Chemical Weapons                              |
| 301151.1 | Advanced Criminalistics                                     |
| 301152.1 | Environmental Forensics 1                                   |
| 301153.1 | Environmental Forensics 2                                   |
| 301154.1 | Biological Agents 1   |
| 301155.1 | Biological Agents 2   |
| 301156.1 | Explosives  |

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.

## 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.

### 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.

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

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

## 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

|                 |  |
|-----------------|--|
| <b>301129.1</b> | Forensic Research 1                      |
| <b>301130.1</b> | Forensic Research 2                      |
| <b>301131.1</b> | Crime Scene Investigation (PG)           |
| <b>301132.1</b> | Fingerprint Detection and Identification |

### Select the remaining credit points from

|                 |   |
|-----------------|---|
| <b>301133.1</b> | Forensic Medicine I   |
| <b>301134.1</b> | Forensic Medicine II  |
| <b>301135.1</b> | General Toxicology  |
| <b>301136.1</b> | Forensic Toxicology I                                       |
| <b>301137.1</b> | Forensic Toxicology II                                      |
| <b>301138.1</b> | Toxic Substances  |
| <b>301139.1</b> | Drug Biotransformation and Molecular Mechanisms of Toxicity |
| <b>301140.1</b> | Medicinal Chemistry of Drugs of Abuse                       |
| <b>301141.1</b> | Natural Medicinal Products                                  |
| <b>301142.1</b> | Synthetic Medicinal Chemistry                               |
| <b>301143.1</b> | Pharmaceutical Analysis                                     |
| <b>301144.1</b> | Forensic Genetics   |
| <b>301145.1</b> | Forensic Entomology   |
| <b>301146.1</b> | Forensic Immunology   |
| <b>301147.1</b> | Forensic Anthropology (PG)                                  |
| <b>301148.1</b> | Forensic Analysis of DNA                                    |
| <b>301149.1</b> | Blood Distribution and Spatter                              |
| <b>301150.1</b> | Toxicology of Chemical Weapons                              |
| <b>301151.1</b> | Advanced Criminalistics                                     |
| <b>301152.1</b> | Environmental Forensics 1                                   |
| <b>301153.1</b> | Environmental Forensics 2                                   |
| <b>301154.1</b> | Biological Agents 1   |
| <b>301155.1</b> | Biological Agents 2   |
| <b>301156.1</b> | Explosives  |

## 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 | Full Time  | External    |
| Parramatta Campus | Part Time  | External    |
| Parramatta Campus | Full Time  | Internal    |
| Parramatta Campus | Part Time  | Internal    |
| Parramatta Campus | Full Time  | Multi Modal |
| Parramatta Campus | Part Time  | Multi Modal |

## Admission

### Master of Health Science (160 credit points)

Applicants must have either

An undergraduate, master or doctoral degree in any discipline

Or

A graduate diploma or graduate certificate in any discipline AND three years full-time equivalent work experience in a health, welfare or aged care discipline.

### Master of Health Science (120 credit points)

Applicants must have either



An undergraduate degree, in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines

Or

A graduate diploma or graduate certificate in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines AND three years full-time equivalent work experience in a health, welfare or aged care discipline.

### Master of Health Science (80 credit points)

Applicants must have

An undergraduate honours, master or doctoral degree, in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural Science and sport and recreation disciplines.

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

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

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

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

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

## Course Structure

### Health Services Management

This specialisation is designed for managers who require skills in contemporary management and their application in the health care setting. Particular emphasis is placed on critical and analytic skills in policy analysis, economic evaluation and epidemiology, thus providing graduates with the ability to respond creatively to changes as they arise. Health managers need to be current with developments in the general business area so potential in the health care setting can be evaluated and appropriate initiatives implemented. Particular specialty units include Organisational Governance and Performance Management, Health Workforce Planning, as well as Quality and Safety in Health Care.

**A4000.1** Master of Health Science (Health Service Management) - 2 year pathway

**A4003.1** Master of Health Science (Health Service Management) - 1.5 year pathway

**A4006.1** Master of Health Science (Health Service Management) - 1 year pathway

### Aged Care Management

Staff working in health and aged care organisations, charitable and private sectors, especially those in supervisory and management positions, will find this exposes them to contemporary issues in aged care, allowing them to up-skill management knowledge to position themselves in the forefront of innovation in the delivery and organisation of quality aged care.

**A4001.1** Master of Health Science (Aged Care Management) - 2 year pathway

**A4004.1** Master of Health Science (Aged Care Management) - 1.5 year pathway

**A4007.1** Master of Health Science (Aged Care Management) - 1 year pathway

### Occupational Health and Safety

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

**A4002.1** Master of Health Science (Occupational Health and Safety) - 2 year pathway

**A4005.1** Master of Health Science (Occupational Health and Safety) - 1.5 year pathway

**A4008.1** Master of Health Science (Occupational Health and Safety) - 1 year pathway

### Graduate Diploma in Health Science

#### 4700.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year for this course is 2016 or later.

Areas of relevance to health employees in the public or private sector form the foundation subjects of this course: Global perspectives on the social determinants of health; Public health policy; Epidemiology; Biostatistics; Health services management and health planning.

#### Study Mode

One year full-time.



**Location**

| Campus            | Attendance | Mode        |
|-------------------|------------|-------------|
| Online            | Full Time  | Multi Modal |
| Online            | Part Time  | Multi Modal |
| Parramatta Campus | Full Time  | External    |
| Parramatta Campus | Part Time  | External    |
| Parramatta Campus | Full Time  | Internal    |
| Parramatta Campus | Part Time  | Internal    |
| Parramatta Campus | Full Time  | Multi Modal |
| Parramatta Campus | Part Time  | Multi Modal |

**Admission**

Applicants must have either

An undergraduate or master degree in any discipline  
OR

A graduate diploma or graduate certificate in any discipline AND two years full-time equivalent work experience in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural Science and sport and recreation disciplines.

**Course Structure**

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

Students must complete the following units

**Core units**

|                 |                                   |
|-----------------|-----------------------------------|
| <b>400416.2</b> | Public Health, Policy and Society |
| <b>401076.1</b> | Introduction to Epidemiology      |
| <b>401077.1</b> | Introduction to Biostatistics     |

**Alternate units**

Choose five units from the list below

|                 |   |
|-----------------|---|
| <b>400841.2</b> | A Global Perspective on Social Determinants of Health     |
| <b>300391.2</b> | Occupational Health Management                            |
| <b>300677.2</b> | Safety and Risk Management                                |
| <b>400238.3</b> | Policy, Power and Politics in Health Care Provision       |
| <b>400777.3</b> | Leadership for Quality and Safety in Health Care          |
| <b>400778.2</b> | Leadership and the Development of Organisational Capacity |
| <b>400837.3</b> | Health and Socio-political Issues in Aged Care            |
| <b>400840.3</b> | Communicable Diseases                                     |
| <b>400843.2</b> | Health Workforce Planning                                 |
| <b>400844.2</b> | Health Services and Facilities Planning                   |
| <b>400845.2</b> | Health Financial Management                               |
| <b>400846.3</b> | Building Organisational Capacity in Health Care           |
| <b>400847.3</b> | Surveillance and Disaster Planning                        |
| <b>400967.2</b> | Health Economics and Comparative Health Systems           |

|                 |  |
|-----------------|--|
| <b>401081.1</b> | Organisational Governance and Performance Management |
| <b>401173.1</b> | Introduction to Clinical Epidemiology                |
| <b>401174.1</b> | Epidemiology of Non-Communicable Diseases            |
| <b>401175.1</b> | Analytic Approaches in Epidemiology                  |
| <b>401176.1</b> | Statistical Methods in Epidemiology                  |
| <b>401177.1</b> | Environmental Epidemiology                           |
| <b>401178.1</b> | Controversies in Epidemiology                        |
| <b>401179.1</b> | Data Management and Programming for Epidemiology     |

**Graduate Certificate in Health Science****4701.2**

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year for this course is 2016 or later.

Areas of relevance to health employees in the public or private sector form the foundation subjects of this course: Global perspectives on the social determinants of health; Public health policy; Epidemiology; and Biostatistics.

**Study Mode**

Six months full-time.

**Location**

| Campus            | Attendance | Mode        |
|-------------------|------------|-------------|
| Parramatta Campus | Full Time  | External    |
| Parramatta Campus | Part Time  | External    |
| Parramatta Campus | Full Time  | Internal    |
| Parramatta Campus | Part Time  | Internal    |
| Parramatta Campus | Full Time  | Multi Modal |
| Parramatta Campus | Part Time  | Multi Modal |

**Admission**

Applicants must have either

An undergraduate or master degree in any discipline  
OR

A graduate diploma or graduate certificate in any discipline AND two years full-time equivalent work experience in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural Science and sport and recreation disciplines

OR

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

**Course Structure**

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

Students must complete the following units

**Core units**

|                 |                                   |
|-----------------|-----------------------------------|
| <b>400416.2</b> | Public Health, Policy and Society |
| <b>401076.1</b> | Introduction to Epidemiology      |

**Alternate units**

Choose two units from the list below

|                 |   |
|-----------------|---|
| <b>401077.1</b> | Introduction to Biostatistics                             |
| <b>400841.2</b> | A Global Perspective on Social Determinants of Health     |
| <b>300391.2</b> | Occupational Health Management                            |
| <b>300677.2</b> | Safety and Risk Management                                |
| <b>400238.3</b> | Policy, Power and Politics in Health Care Provision       |
| <b>400777.3</b> | Leadership for Quality and Safety in Health Care          |
| <b>400778.2</b> | Leadership and the Development of Organisational Capacity |
| <b>400837.3</b> | Health and Socio-political Issues in Aged Care            |
| <b>400840.3</b> | Communicable Diseases                                     |
| <b>400843.2</b> | Health Workforce Planning                                 |
| <b>400844.2</b> | Health Services and Facilities Planning                   |
| <b>400845.2</b> | Health Financial Management                               |
| <b>400846.3</b> | Building Organisational Capacity in Health Care           |
| <b>400847.3</b> | Surveillance and Disaster Planning                        |
| <b>400967.2</b> | Health Economics and Comparative Health Systems           |
| <b>401081.1</b> | Organisational Governance and Performance Management      |
| <b>401173.1</b> | Introduction to Clinical Epidemiology                     |
| <b>401174.1</b> | Epidemiology of Non-Communicable Diseases                 |
| <b>401175.1</b> | Analytic Approaches in Epidemiology                       |
| <b>401176.1</b> | Statistical Methods in Epidemiology                       |
| <b>401177.1</b> | Environmental Epidemiology                                |
| <b>401178.1</b> | Controversies in Epidemiology                             |
| <b>401179.1</b> | Data Management and Programming for 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**

| <b>Campus</b>     | <b>Attendance</b> | <b>Mode</b> |
|-------------------|-------------------|-------------|
| Parramatta Campus | Full Time         | Internal    |

**Admission**

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

**Course Structure**

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

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

The course will comprise the following

- Core Units - 30 credit points
  - Research Training - 40 credit points
  - Alternate Health units - 40 credit points
  - One Elective unit - 10 credit points
- Students must successfully complete the following

**Core units - 30 credit points**

|                 |   |
|-----------------|---|
| <b>400416.2</b> | Public Health, Policy and Society                         |
| <b>400967.2</b> | Health Economics and Comparative Health Systems           |
| <b>400778.2</b> | Leadership and the Development of Organisational Capacity |

**Research Training component - 40 credit points**

|                 |  |
|-----------------|--|
| <b>300398.2</b> | Methods of Researching                 |
| <b>400850.2</b> | Professional Topic                     |
| <b>300742.2</b> | 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**

|                 |   |
|-----------------|---|
| <b>400417.2</b> | Epidemiology and Quantitative Methods                 |
| <b>400841.2</b> | A Global Perspective on Social Determinants of Health |
| <b>400840.3</b> | Communicable Diseases                                 |
| <b>400418.4</b> | Health Advancement and Health Promotion               |
| <b>400843.2</b> | Health Workforce Planning                             |
| <b>300391.2</b> | Occupational Health Management                        |
| <b>300677.2</b> | Safety and Risk Management                            |
| <b>300682.2</b> | Occupational and Environmental Hygiene                |
| <b>400206.2</b> | Evidence-based Nursing                                |
| <b>400847.3</b> | Surveillance and Disaster Planning                    |

**400837.3** Health and Socio-political Issues in Aged Care

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

**And one elective unit - 10 credit points**

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

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

**Master of 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 |
| Online            | Part Time  | Multi Modal |
| Parramatta Campus | Full Time  | External    |
| Parramatta Campus | Part Time  | External    |
| Parramatta Campus | Full Time  | Internal    |
| Parramatta Campus | Part Time  | Internal    |

| Campus            | Attendance | Mode        |
|-------------------|------------|-------------|
| Parramatta Campus | Full Time  | Multi Modal |
| Parramatta Campus | Part Time  | Multi Modal |

**Admission****Master of Public Health (160 credit points)**

Applicants must have either

An undergraduate, master or doctoral degree in any discipline

OR

A Graduate Diploma or Graduate Certificate in any discipline AND three years full-time equivalent work experience in a health, welfare or aged care discipline.

**Master of Public Health (120 credit points)**

Applicants must have either

An undergraduate degree in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural Science and sport and recreation disciplines

OR

A Graduate Diploma or Graduate Certificate in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines AND three years full-time equivalent work experience in a health, welfare or aged care discipline.

**Master of Public Health (80 credit points)**

Applicants must have

An undergraduate honours, master or doctoral degree in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines.

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

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

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

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

## Course Structure

### Pathways

|                |  |
|----------------|--|
| <b>A4009.1</b> | Master of Public Health - 2 year pathway   |
| <b>A4010.1</b> | Master of Public Health - 1.5 year pathway |
| <b>A4011.1</b> | 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 | Full Time  | External    |
| Parramatta Campus | Part Time  | External    |
| Parramatta Campus | Full Time  | Internal    |
| Parramatta Campus | Part Time  | Internal    |
| Parramatta Campus | Full Time  | Multi Modal |
| Parramatta Campus | Part Time  | Multi Modal |

### Admission

Applicants must have either

An undergraduate or master degree in any discipline  
OR

A Graduate Diploma or Graduate Certificate in any discipline AND two years full-time equivalent work experience in a health, welfare or aged care discipline.

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

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable

proof on the UAC website. Local applicants applying directly to the University should also use the information provided on the UAC website.

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

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

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

### Course Structure

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

#### Core units

Students must complete the following units

|                 |   |
|-----------------|---|
| <b>400841.2</b> | A Global Perspective on Social Determinants of Health |
| <b>400416.2</b> | Public Health, Policy and Society                     |
| <b>401076.1</b> | Introduction to Epidemiology                          |
| <b>401077.1</b> | Introduction to Biostatistics                         |

#### Alternate Units

Choose four units from the list below

|                 |   |
|-----------------|---|
| <b>300391.2</b> | Occupational Health Management                            |
| <b>300677.2</b> | Safety and Risk Management                                |
| <b>400238.3</b> | Policy, Power and Politics in Health Care Provision       |
| <b>400777.3</b> | Leadership for Quality and Safety in Health Care          |
| <b>400778.2</b> | Leadership and the Development of Organisational Capacity |
| <b>400837.3</b> | Health and Socio-political Issues in Aged Care            |
| <b>400840.3</b> | Communicable Diseases                                     |
| <b>400843.2</b> | Health Workforce Planning                                 |
| <b>400844.2</b> | Health Services and Facilities Planning                   |
| <b>400845.2</b> | Health Financial Management                               |
| <b>400846.3</b> | Building Organisational Capacity in Health Care           |
| <b>400847.3</b> | Surveillance and Disaster Planning                        |
| <b>400967.2</b> | Health Economics and Comparative Health Systems           |
| <b>401081.1</b> | Organisational Governance and Performance Management      |
| <b>401173.1</b> | Introduction to Clinical Epidemiology                     |
| <b>401179.1</b> | Data Management and Programming for Epidemiology          |
| <b>401174.1</b> | Epidemiology of Non-Communicable Diseases                 |
| <b>401177.1</b> | Environmental Epidemiology                                |
| <b>401178.1</b> | Controversies in Epidemiology                             |
| <b>401175.1</b> | Analytic Approaches in Epidemiology                       |
| <b>401176.1</b> | Statistical Methods in Epidemiology                       |



## Graduate Certificate in Public Health

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### 4705.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year for this course is 2016 or later.

To complete the Graduate Certificate in Public Health, students complete the core units of the Graduate Diploma course. These units provide students with a range of critical, research and practical skills in the areas of public health and policy analysis, epidemiology, and biostatistics. The course will suit students who seek an introduction to public health or who wish to limit their studies according to their needs.

### Study Mode

Six months full-time or one year part-time

### Location

| Campus            | Attendance | Mode        |
|-------------------|------------|-------------|
| Parramatta Campus | Full Time  | External    |
| Parramatta Campus | Part Time  | External    |
| Parramatta Campus | Full Time  | Internal    |
| Parramatta Campus | Part Time  | Internal    |
| Parramatta Campus | Full Time  | Multi Modal |
| Parramatta Campus | Part Time  | Multi Modal |

### Admission

Applicants must have either

An undergraduate or master degree in any discipline

OR

A Graduate Diploma or Graduate Certificate in any discipline AND two years full-time equivalent work experience in a health, welfare or aged care discipline

OR

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

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

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

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

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

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

### Course Structure

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

Students must complete the following units

|                 |   |
|-----------------|---|
| <b>400841.2</b> | A Global Perspective on Social Determinants of Health |
| <b>400416.2</b> | Public Health, Policy and Society                     |
| <b>401076.1</b> | Introduction to Epidemiology                          |
| <b>401077.1</b> | Introduction to Biostatistics                         |



## Specialisations

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### Postgraduate Admission Pathway - Master of Health Science (Health Service Management) - 2 year pathway

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#### A4000.1

This specialisation is designed for managers who require skills in contemporary management and their application in the health care setting. Particular emphasis is placed on critical and analytic skills in policy analysis, economic evaluation and epidemiology, thus providing graduates with the ability to respond creatively to changes as they arise. Health managers need to be current with developments in the general business area so potential in the health care setting can be evaluated and appropriate initiatives implemented. Particular specialty units include Organisational Governance and Performance Management, Health Workforce Planning, as well as Quality and Safety in Health Care.

#### Location

| Campus            | Mode     |
|-------------------|----------|
| Online            | External |
| Parramatta Campus | Internal |

#### Specialisation Structure

Master of Health Science - two year program.

Applicants must have either

An undergraduate, master or doctoral degree in any discipline

OR a graduate diploma or graduate certificate in any discipline AND three years full-time equivalent work experience in a health, welfare or aged care discipline.

#### Health Services Management

##### Core Units

Students must complete the core units listed below

|          |  |
|----------|--|
| 400416.2 | Public Health, Policy and Society                    |
| 400843.2 | Health Workforce Planning                            |
| 400844.2 | Health Services and Facilities Planning              |
| 400845.2 | Health Financial Management                          |
| 401081.1 | Organisational Governance and Performance Management |
| 401076.1 | Introduction to Epidemiology                         |
| 401077.1 | Introduction to Biostatistics                        |

##### Alternate Units

Students enrolled in the two year program may select up to eight of the following units

|          |   |
|----------|---|
| 400238.3 | Policy, Power and Politics in Health Care Provision |
| 400777.3 | Leadership for Quality and Safety in Health Care    |

|          |   |
|----------|---|
| 400846.3 | Building Organisational Capacity in Health Care           |
| 400841.2 | A Global Perspective on Social Determinants of Health     |
| 300391.2 | Occupational Health Management                            |
| 300677.2 | Safety and Risk Management                                |
| 400778.2 | Leadership and the Development of Organisational Capacity |
| 400837.3 | Health and Socio-political Issues in Aged Care            |
| 400840.3 | Communicable Diseases                                     |
| 400847.3 | Surveillance and Disaster Planning                        |
| 400967.2 | Health Economics and Comparative Health Systems           |
| 401173.1 | Introduction to Clinical Epidemiology                     |
| 401179.1 | Data Management and Programming for Epidemiology          |
| 401174.1 | Epidemiology of Non-Communicable Diseases                 |
| 401175.1 | Analytic Approaches in Epidemiology                       |
| 401176.1 | Statistical Methods in Epidemiology                       |
| 401177.1 | Environmental Epidemiology                                |
| 401178.1 | Controversies in Epidemiology                             |

#### Capstone Units

Students must complete at least one of the following units

|          |   |
|----------|---|
| 401080.1 | Research Protocol Design and Practice   |
| 400418.4 | Health Advancement and Health Promotion |
| 400850.2 | Professional Topic                      |
| 401078.1 | Research Project                        |

Note: 401078 - Research Project is a 20 credit point unit

|          |              |
|----------|--------------|
| 401079.1 | Dissertation |
|----------|--------------|

Note: 401079 - Dissertation is a 40 credit point unit

### Postgraduate Admission Pathway - Master of Health Science (Aged Care Management) - 2 year pathway

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#### A4001.1

Staff working in health and aged care organisations, charitable and private sectors, especially those in supervisory and management positions, will find this exposes them to contemporary issues in aged care, allowing them to up-skill management knowledge to position themselves in the forefront of innovation in the delivery and organisation of quality aged care.

#### Location

| Campus            | Mode     |
|-------------------|----------|
| Online            | External |
| Parramatta Campus | Internal |

#### Specialisation Structure

Master of Health Science - two year program.

Applicants must have either

An undergraduate, master or doctoral degree in any discipline

OR a graduate diploma or graduate certificate in any discipline AND three years full-time equivalent work experience in a health, welfare or aged care discipline

## Aged Care Management

### Core Units

Students must complete the core units listed below

|                 |  |
|-----------------|--|
| <b>400416.2</b> | Public Health, Policy and Society                    |
| <b>400837.3</b> | Health and Socio-political Issues in Aged Care       |
| <b>400845.2</b> | Health Financial Management                          |
| <b>400843.2</b> | Health Workforce Planning                            |
| <b>401081.1</b> | Organisational Governance and Performance Management |
| <b>401076.1</b> | Introduction to Epidemiology                         |
| <b>401077.1</b> | Introduction to Biostatistics                        |

### Alternate Units

Students enrolled in the two year program may select up to eight of the following units

|                 |   |
|-----------------|---|
| <b>400777.3</b> | Leadership for Quality and Safety in Health Care          |
| <b>400841.2</b> | A Global Perspective on Social Determinants of Health     |
| <b>300391.2</b> | Occupational Health Management                            |
| <b>300677.2</b> | Safety and Risk Management                                |
| <b>400238.3</b> | Policy, Power and Politics in Health Care Provision       |
| <b>400778.2</b> | Leadership and the Development of Organisational Capacity |
| <b>400840.3</b> | Communicable Diseases                                     |
| <b>400844.2</b> | Health Services and Facilities Planning                   |
| <b>400846.3</b> | Building Organisational Capacity in Health Care           |
| <b>400847.3</b> | Surveillance and Disaster Planning                        |
| <b>400967.2</b> | Health Economics and Comparative Health Systems           |
| <b>401173.1</b> | Introduction to Clinical Epidemiology                     |
| <b>401179.1</b> | Data Management and Programming for Epidemiology          |
| <b>401174.1</b> | Epidemiology of Non-Communicable Diseases                 |
| <b>401177.1</b> | Environmental Epidemiology                                |
| <b>401178.1</b> | Controversies in Epidemiology                             |
| <b>401175.1</b> | Analytic Approaches in Epidemiology                       |
| <b>401176.1</b> | Statistical Methods in Epidemiology                       |

### Capstone Units

Students must complete at least one of the following units

|                 |   |
|-----------------|---|
| <b>401080.1</b> | Research Protocol Design and Practice   |
| <b>400418.4</b> | Health Advancement and Health Promotion |
| <b>400850.2</b> | Professional Topic                      |
| <b>401078.1</b> | Research Project                        |

Note: 401078 - Research Project is 20 credit point unit

|                 |              |
|-----------------|--------------|
| <b>401079.1</b> | Dissertation |
|-----------------|--------------|

Note: 401079 - Dissertation is a 40 credit point unit

## Postgraduate Admission Pathway - Master of Health Science (Occupational Health and Safety) - 2 year pathway

### A4002.1

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

### Location

| Campus            | Mode     |
|-------------------|----------|
| Online            | External |
| Parramatta Campus | Internal |

### Specialisation Structure

Master of Health Science - two year program.

Applicants must have either

An undergraduate, master or doctoral degree in any discipline

OR a graduate diploma or graduate certificate in any discipline AND three years full-time equivalent work experience in a health, welfare or aged care discipline.

### Occupational Health and Safety

#### Core Units

Students must complete the core units listed below

|                 |                                   |
|-----------------|-----------------------------------|
| <b>300391.2</b> | Occupational Health Management    |
| <b>300677.2</b> | Safety and Risk Management        |
| <b>400416.2</b> | Public Health, Policy and Society |
| <b>401076.1</b> | Introduction to Epidemiology      |
| <b>401077.1</b> | Introduction to Biostatistics     |

#### Alternate Units

Students enrolled in the two year program may select up to ten of the following units

|                 |   |
|-----------------|---|
| <b>400841.2</b> | A Global Perspective on Social Determinants of Health     |
| <b>400238.3</b> | Policy, Power and Politics in Health Care Provision       |
| <b>400777.3</b> | Leadership for Quality and Safety in Health Care          |
| <b>400778.2</b> | Leadership and the Development of Organisational Capacity |
| <b>400837.3</b> | Health and Socio-political Issues in Aged Care            |
| <b>400840.3</b> | Communicable Diseases                                     |

|          |  |
|----------|--|
| 400843.2 | Health Workforce Planning                            |
| 400844.2 | Health Services and Facilities Planning              |
| 400845.2 | Health Financial Management                          |
| 400846.3 | Building Organisational Capacity in Health Care      |
| 400847.3 | Surveillance and Disaster Planning                   |
| 400967.2 | Health Economics and Comparative Health Systems      |
| 401081.1 | Organisational Governance and Performance Management |
| 401173.1 | Introduction to Clinical Epidemiology                |
| 401174.1 | Epidemiology of Non-Communicable Diseases            |
| 401175.1 | Analytic Approaches in Epidemiology                  |
| 401176.1 | Statistical Methods in Epidemiology                  |
| 401177.1 | Environmental Epidemiology                           |
| 401178.1 | Controversies in Epidemiology                        |
| 401179.1 | Data Management and Programming for Epidemiology     |

### Capstone Units

Students must complete at least one of the following units

|          |   |
|----------|---|
| 401080.1 | Research Protocol Design and Practice   |
| 400418.4 | Health Advancement and Health Promotion |
| 400850.2 | Professional Topic                      |
| 401078.1 | Research Project                        |

Note: 401078 - Research Project is 20 credit point unit

|          |              |
|----------|--------------|
| 401079.1 | Dissertation |
|----------|--------------|

Note: 401079 - Dissertation is a 40 credit point unit

## Postgraduate Admission Pathway - Master of Health Science (Health Service Management) - 1.5 year pathway

### A4003.1

This specialisation is designed for managers who require skills in contemporary management and their application in the health care setting. Particular emphasis is placed on critical and analytic skills in policy analysis, economic evaluation and epidemiology, thus providing graduates with the ability to respond creatively to changes as they arise. Health managers need to be current with developments in the general business area so potential in the health care setting can be evaluated and appropriate initiatives implemented. Particular specialty units include Organisational Governance and Performance Management, Health Workforce Planning, as well as Quality and Safety in Health Care.

### Location

| Campus            | Mode     |
|-------------------|----------|
| Online            | External |
| Parramatta Campus | Internal |

### Specialisation Structure

Master of Health Science - One and a half year program.  
Applicants must have either

An undergraduate degree, in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines

OR a graduate diploma or graduate certificate in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines AND three years full-time equivalent work experience in a health, welfare or aged care discipline.

## Health Services Management

### Core Units

Students must complete the core units listed below

|          |  |
|----------|--|
| 400416.2 | Public Health, Policy and Society                    |
| 400843.2 | Health Workforce Planning                            |
| 400844.2 | Health Services and Facilities Planning              |
| 400845.2 | Health Financial Management                          |
| 401081.1 | Organisational Governance and Performance Management |
| 401076.1 | Introduction to Epidemiology                         |
| 401077.1 | Introduction to Biostatistics                        |

### Alternate Units

Students enrolled in the one and a half year program may select up to four of the following units

|          |   |
|----------|---|
| 400238.3 | Policy, Power and Politics in Health Care Provision       |
| 400777.3 | Leadership for Quality and Safety in Health Care          |
| 400846.3 | Building Organisational Capacity in Health Care           |
| 400841.2 | A Global Perspective on Social Determinants of Health     |
| 300391.2 | Occupational Health Management                            |
| 300677.2 | Safety and Risk Management                                |
| 400778.2 | Leadership and the Development of Organisational Capacity |
| 400837.3 | Health and Socio-political Issues in Aged Care            |
| 400840.3 | Communicable Diseases                                     |
| 400847.3 | Surveillance and Disaster Planning                        |
| 400967.2 | Health Economics and Comparative Health Systems           |
| 401173.1 | Introduction to Clinical Epidemiology                     |
| 401179.1 | Data Management and Programming for Epidemiology          |
| 401174.1 | Epidemiology of Non-Communicable Diseases                 |
| 401175.1 | Analytic Approaches in Epidemiology                       |
| 401176.1 | Statistical Methods in Epidemiology                       |
| 401177.1 | Environmental Epidemiology                                |
| 401178.1 | Controversies in Epidemiology                             |

### Capstone Units

Students must complete at least one of the following units

|          |   |
|----------|---|
| 401080.1 | Research Protocol Design and Practice   |
| 400418.4 | Health Advancement and Health Promotion |
| 400850.2 | Professional Topic                      |
| 401078.1 | Research Project                        |

Note: 401078 - Research Project is 20 credit point unit

**401079.1** Dissertation

Note: 401079 - Dissertation is a 40 credit point unit

### Postgraduate Admission Pathway - Master of Health Science (Aged Care Management) - 1.5 year pathway

#### A4004.1

Staff working in health and aged care organisations, charitable and private sectors, especially those in supervisory and management positions, will find this exposes them to contemporary issues in aged care, allowing them to up-skill management knowledge to position themselves in the forefront of innovation in the delivery and organisation of quality aged care.

#### Location

| Campus            | Mode     |
|-------------------|----------|
| Online            | External |
| Parramatta Campus | Internal |

#### Specialisation Structure

Master of Health Science - One and a half year program.

Applicants must have either

An undergraduate degree, in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines

OR a graduate diploma or graduate certificate in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines AND three years full-time equivalent work experience in a health, welfare or aged care discipline.

#### Aged Care Management

##### Core Units

Students must complete the core units listed below

|                 |  |
|-----------------|--|
| <b>400416.2</b> | Public Health, Policy and Society                    |
| <b>400837.3</b> | Health and Socio-political Issues in Aged Care       |
| <b>400845.2</b> | Health Financial Management                          |
| <b>400843.2</b> | Health Workforce Planning                            |
| <b>401081.1</b> | Organisational Governance and Performance Management |
| <b>401076.1</b> | Introduction to Epidemiology                         |
| <b>401077.1</b> | Introduction to Biostatistics                        |

##### Alternate Units

Students enrolled in the one and a half year program may select up to four of the following units

|                 |   |
|-----------------|---|
| <b>400777.3</b> | Leadership for Quality and Safety in Health Care      |
| <b>400841.2</b> | A Global Perspective on Social Determinants of Health |

|                 |   |
|-----------------|---|
| <b>300391.2</b> | Occupational Health Management                            |
| <b>300677.2</b> | Safety and Risk Management                                |
| <b>400238.3</b> | Policy, Power and Politics in Health Care Provision       |
| <b>400778.2</b> | Leadership and the Development of Organisational Capacity |
| <b>400840.3</b> | Communicable Diseases                                     |
| <b>400844.2</b> | Health Services and Facilities Planning                   |
| <b>400846.3</b> | Building Organisational Capacity in Health Care           |
| <b>400847.3</b> | Surveillance and Disaster Planning                        |
| <b>400967.2</b> | Health Economics and Comparative Health Systems           |
| <b>401173.1</b> | Introduction to Clinical Epidemiology                     |
| <b>401174.1</b> | Epidemiology of Non-Communicable Diseases                 |
| <b>401175.1</b> | Analytic Approaches in Epidemiology                       |
| <b>401176.1</b> | Statistical Methods in Epidemiology                       |
| <b>401177.1</b> | Environmental Epidemiology                                |
| <b>401178.1</b> | Controversies in Epidemiology                             |
| <b>401179.1</b> | Data Management and Programming for Epidemiology          |

#### Capstone Units

Students must complete at least one of the following units

|                 |   |
|-----------------|---|
| <b>401080.1</b> | Research Protocol Design and Practice   |
| <b>400418.4</b> | Health Advancement and Health Promotion |
| <b>400850.2</b> | Professional Topic                      |
| <b>401078.1</b> | Research Project                        |

Note: 401078 - Research Project is 20 credit point unit

**401079.1** Dissertation

Note: 401079 - Dissertation is a 40 credit point unit

### Postgraduate Admission Pathway - Master of Health Science (Occupational Health and Safety) - 1.5 year pathway

#### A4005.1

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

#### Location

| Campus            | Mode     |
|-------------------|----------|
| Online            | External |
| Parramatta Campus | Internal |



## Specialisation Structure

Master of Health Science - one and a half year program.

Applicants must have either

An undergraduate degree, in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines

OR a graduate diploma or graduate certificate in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines  
AND three years full-time equivalent work experience in a health, welfare or aged care discipline

## Occupational Health and Safety

### Core Units

Students must complete the core units listed below

|                 |                                   |
|-----------------|-----------------------------------|
| <b>300391.2</b> | Occupational Health Management    |
| <b>300677.2</b> | Safety and Risk Management        |
| <b>400416.2</b> | Public Health, Policy and Society |
| <b>401076.1</b> | Introduction to Epidemiology      |
| <b>401077.1</b> | Introduction to Biostatistics     |

### Alternate Units

Students enrolled in the one and a half year program may select up to six of the following units

|                 |   |
|-----------------|---|
| <b>400841.2</b> | A Global Perspective on Social Determinants of Health     |
| <b>400238.3</b> | Policy, Power and Politics in Health Care Provision       |
| <b>400777.3</b> | Leadership for Quality and Safety in Health Care          |
| <b>400778.2</b> | Leadership and the Development of Organisational Capacity |
| <b>400837.3</b> | Health and Socio-political Issues in Aged Care            |
| <b>400840.3</b> | Communicable Diseases                                     |
| <b>400843.2</b> | Health Workforce Planning                                 |
| <b>400844.2</b> | Health Services and Facilities Planning                   |
| <b>400845.2</b> | Health Financial Management                               |
| <b>400846.3</b> | Building Organisational Capacity in Health Care           |
| <b>400847.3</b> | Surveillance and Disaster Planning                        |
| <b>400967.2</b> | Health Economics and Comparative Health Systems           |
| <b>401081.1</b> | Organisational Governance and Performance Management      |
| <b>401173.1</b> | Introduction to Clinical Epidemiology                     |
| <b>401174.1</b> | Epidemiology of Non-Communicable Diseases                 |
| <b>401175.1</b> | Analytic Approaches in Epidemiology                       |
| <b>401176.1</b> | Statistical Methods in Epidemiology                       |
| <b>401177.1</b> | Environmental Epidemiology                                |
| <b>401178.1</b> | Controversies in Epidemiology                             |
| <b>401179.1</b> | Data Management and Programming for Epidemiology          |

### Capstone Units

Students must complete at least one of the following units

|                 |                                       |
|-----------------|---------------------------------------|
| <b>401080.1</b> | Research Protocol Design and Practice |
|-----------------|---------------------------------------|

|                 |   |
|-----------------|---|
| <b>400418.4</b> | Health Advancement and Health Promotion |
| <b>400850.2</b> | Professional Topic                      |
| <b>401078.1</b> | Research Project                        |

Note: 401078 - Research Project is 20 credit point unit

|                 |              |
|-----------------|--------------|
| <b>401079.1</b> | Dissertation |
|-----------------|--------------|

Note: 401079 - Dissertation is a 40 credit point unit

## Postgraduate Admission Pathway - Master of Health Science (Health Service Management) - 1 year pathway

### A4006.1

This specialisation is designed for managers who require skills in contemporary management and their application in the health care setting. Particular emphasis is placed on critical and analytic skills in policy analysis, economic evaluation and epidemiology, thus providing graduates with the ability to respond creatively to changes as they arise. Health managers need to be current with developments in the general business area so potential in the health care setting can be evaluated and appropriate initiatives implemented. Particular specialty units include Organisational Governance and Performance Management, Health Workforce Planning, as well as Quality and Safety in Health Care.

### Location

| Campus            | Mode     |
|-------------------|----------|
| Online            | External |
| Parramatta Campus | Internal |

### Specialisation Structure

#### Health Services Management

Master of Health Science - one year program.

Applicants must have

An undergraduate honours, master or doctoral degree, in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines.

### Core Units

Students must complete the core units listed below

|                 |  |
|-----------------|--|
| <b>400416.2</b> | Public Health, Policy and Society                    |
| <b>400843.2</b> | Health Workforce Planning                            |
| <b>400844.2</b> | Health Services and Facilities Planning              |
| <b>400845.2</b> | Health Financial Management                          |
| <b>401081.1</b> | Organisational Governance and Performance Management |
| <b>401076.1</b> | Introduction to Epidemiology                         |
| <b>401077.1</b> | Introduction to Biostatistics                        |

### Capstone Units

Students must complete at least one of the following units

|                 |                                       |
|-----------------|---------------------------------------|
| <b>401080.1</b> | Research Protocol Design and Practice |
|-----------------|---------------------------------------|



**400418.4** Health Advancement and Health Promotion  
**400850.2** Professional Topic

## Postgraduate Admission Pathway - Master of Health Science (Aged Care Management) - 1 year pathway

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### A4007.1

Staff working in health and aged care organisations, charitable and private sectors, especially those in supervisory and management positions, will find this exposes them to contemporary issues in aged care, allowing them to up-skill management knowledge to position themselves in the forefront of innovation in the delivery and organisation of quality aged care.

### Location

| Campus            | Mode     |
|-------------------|----------|
| Online            | External |
| Parramatta Campus | Internal |

### Specialisation Structure

Master of Health Science - one year program.

Applicants must have

An undergraduate honours, master or doctoral degree, in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural Science and sport and recreation disciplines.

### Aged Care Management

#### Core Units

Students must complete the core units listed below

|                 |  |
|-----------------|--|
| <b>400416.2</b> | Public Health, Policy and Society                    |
| <b>400837.3</b> | Health and Socio-political Issues in Aged Care       |
| <b>400845.2</b> | Health Financial Management                          |
| <b>400843.2</b> | Health Workforce Planning                            |
| <b>401081.1</b> | Organisational Governance and Performance Management |
| <b>401076.1</b> | Introduction to Epidemiology                         |
| <b>401077.1</b> | Introduction to Biostatistics                        |

#### Capstone Units

Students must complete at least one of the following units

|                 |   |
|-----------------|---|
| <b>401080.1</b> | Research Protocol Design and Practice   |
| <b>400418.4</b> | Health Advancement and Health Promotion |
| <b>400850.2</b> | Professional Topic                      |

## Postgraduate Admission Pathway - Master of Health Science (Occupational Health and Safety) - 1 year pathway

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### A4008.1

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

### Location

| Campus            | Mode     |
|-------------------|----------|
| Online            | External |
| Parramatta Campus | Internal |

### Specialisation Structure

Master of Health Science - one year program.

Applicants must have

An undergraduate honours, master or doctoral degree, in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines.

### Occupational Health and Safety

#### Core Units

Students must complete the core units listed below

|                 |                                   |
|-----------------|-----------------------------------|
| <b>300391.2</b> | Occupational Health Management    |
| <b>300677.2</b> | Safety and Risk Management        |
| <b>400416.2</b> | Public Health, Policy and Society |
| <b>401076.1</b> | Introduction to Epidemiology      |
| <b>401077.1</b> | Introduction to Biostatistics     |

#### Alternate Units

Students enrolled in the one year program may select up to two of the following units

|                 |   |
|-----------------|---|
| <b>400841.2</b> | A Global Perspective on Social Determinants of Health     |
| <b>400238.3</b> | Policy, Power and Politics in Health Care Provision       |
| <b>400777.3</b> | Leadership for Quality and Safety in Health Care          |
| <b>400778.2</b> | Leadership and the Development of Organisational Capacity |
| <b>400837.3</b> | Health and Socio-political Issues in Aged Care            |
| <b>400840.3</b> | Communicable Diseases                                     |

|          |  |
|----------|--|
| 400843.2 | Health Workforce Planning                            |
| 400844.2 | Health Services and Facilities Planning              |
| 400845.2 | Health Financial Management                          |
| 400846.3 | Building Organisational Capacity in Health Care      |
| 400847.3 | Surveillance and Disaster Planning                   |
| 400967.2 | Health Economics and Comparative Health Systems      |
| 401081.1 | Organisational Governance and Performance Management |
| 401173.1 | Introduction to Clinical Epidemiology                |
| 401174.1 | Epidemiology of Non-Communicable Diseases            |
| 401175.1 | Analytic Approaches in Epidemiology                  |
| 401176.1 | Statistical Methods in Epidemiology                  |
| 401177.1 | Environmental Epidemiology                           |
| 401178.1 | Controversies in Epidemiology                        |
| 401179.1 | Data Management and Programming for Epidemiology     |

### Capstone Units

Students must complete at least one of the following units

|          |   |
|----------|---|
| 401080.1 | Research Protocol Design and Practice   |
| 400418.4 | Health Advancement and Health Promotion |
| 400850.2 | Professional Topic                      |
| 401078.1 | Research Project                        |

Note: 401078 - Research Project is 20 credit point unit

|          |              |
|----------|--------------|
| 401079.1 | Dissertation |
|----------|--------------|

Note: 401079 - Dissertation is a 40 credit point unit

### Postgraduate Admission Pathway - Master of Public Health - 2 year pathway

#### A4009.1

The Master of Public Health course is designed for professionals working in a variety of settings, including health departments and community organisations. Public health professionals are required to effectively assess and respond to emerging public health issues. This course emphasises a comprehensive assessment of all determinants of health, which include broader social and environmental factors in addition to physical risk factors. Students can study a wide range of evaluation processes and research methods such as policy analysis, economic evaluation, epidemiology and qualitative methods. Students also receive practical skills in community development and health promotion programs, and also complete a culminating research and practice experience in the evaluation of a contemporary public health issue.

### Location

| Campus            | Mode     |
|-------------------|----------|
| Online            | External |
| Parramatta Campus | Internal |

### Specialisation Structure

Master of Public Health - two year program.

Applicants must have either

An undergraduate, master or doctoral degree in any discipline

OR a Graduate Diploma or Graduate Certificate in any discipline AND three years full-time equivalent work experience in a health, welfare or aged care discipline.

### Core Units

All students must complete the core units below

|          |   |
|----------|---|
| 400841.2 | A Global Perspective on Social Determinants of Health |
| 400416.2 | Public Health, Policy and Society                     |
| 401076.1 | Introduction to Epidemiology                          |
| 401077.1 | Introduction to Biostatistics                         |

### Alternate Units

Students enrolled in the two year program may select up to eleven of the following units

|          |   |
|----------|---|
| 300391.2 | Occupational Health Management                            |
| 300677.2 | Safety and Risk Management                                |
| 400238.3 | Policy, Power and Politics in Health Care Provision       |
| 400777.3 | Leadership for Quality and Safety in Health Care          |
| 400778.2 | Leadership and the Development of Organisational Capacity |
| 400837.3 | Health and Socio-political Issues in Aged Care            |
| 400840.3 | Communicable Diseases                                     |
| 400843.2 | Health Workforce Planning                                 |
| 400844.2 | Health Services and Facilities Planning                   |
| 400845.2 | Health Financial Management                               |
| 400846.3 | Building Organisational Capacity in Health Care           |
| 400847.3 | Surveillance and Disaster Planning                        |
| 400967.2 | Health Economics and Comparative Health Systems           |
| 401081.1 | Organisational Governance and Performance Management      |
| 401173.1 | Introduction to Clinical Epidemiology                     |
| 401179.1 | Data Management and Programming for Epidemiology          |
| 401174.1 | Epidemiology of Non-Communicable Diseases                 |
| 401177.1 | Environmental Epidemiology                                |
| 401178.1 | Controversies in Epidemiology                             |
| 401175.1 | Analytic Approaches in Epidemiology                       |
| 401176.1 | Statistical Methods in Epidemiology                       |

### Capstone Units

Students must complete at least one of the following units

|          |   |
|----------|---|
| 401080.1 | Research Protocol Design and Practice   |
| 400418.4 | Health Advancement and Health Promotion |
| 400850.2 | Professional Topic                      |
| 401078.1 | Research Project                        |
| 401079.1 | Dissertation                            |

## Postgraduate Admission Pathway - Master of Public Health - 1.5 year pathway

### A4010.1

The Master of Public Health course is designed for professionals working in a variety of settings, including health departments and community organisations. Public health professionals are required to effectively assess and respond to emerging public health issues. This course emphasises a comprehensive assessment of all determinants of health, which include broader social and environmental factors in addition to physical risk factors. Students can study a wide range of evaluation processes and research methods such as policy analysis, economic evaluation, epidemiology and qualitative methods. Students also receive practical skills in community development and health promotion programs, and also complete a culminating research and practice experience in the evaluation of a contemporary public health issue.

### Location

| Campus            | Mode     |
|-------------------|----------|
| Online            | External |
| Parramatta Campus | Internal |

### Specialisation Structure

Master of Public Health - One and a half year program.

Applicants must have either

An undergraduate degree in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural Science and sport and recreation disciplines

OR a Graduate Diploma or Graduate Certificate in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines AND three years full-time equivalent work experience in a health, welfare or aged care discipline.

### Core Units

All students must complete the core units below

|          |   |
|----------|---|
| 400841.2 | A Global Perspective on Social Determinants of Health |
| 400416.2 | Public Health, Policy and Society                     |
| 401076.1 | Introduction to Epidemiology                          |
| 401077.1 | Introduction to Biostatistics                         |

### Alternate Units

Students enrolled in the one and a half year program may select up to seven of the following units

|          |   |
|----------|---|
| 300391.2 | Occupational Health Management                      |
| 300677.2 | Safety and Risk Management                          |
| 400238.3 | Policy, Power and Politics in Health Care Provision |
| 400777.3 | Leadership for Quality and Safety in Health Care    |

|          |   |
|----------|---|
| 400778.2 | Leadership and the Development of Organisational Capacity |
| 400837.3 | Health and Socio-political Issues in Aged Care            |
| 400840.3 | Communicable Diseases                                     |
| 400843.2 | Health Workforce Planning                                 |
| 400844.2 | Health Services and Facilities Planning                   |
| 400845.2 | Health Financial Management                               |
| 400846.3 | Building Organisational Capacity in Health Care           |
| 400847.3 | Surveillance and Disaster Planning                        |
| 400967.2 | Health Economics and Comparative Health Systems           |
| 401081.1 | Organisational Governance and Performance Management      |
| 401173.1 | Introduction to Clinical Epidemiology                     |
| 401179.1 | Data Management and Programming for Epidemiology          |
| 401174.1 | Epidemiology of Non-Communicable Diseases                 |
| 401177.1 | Environmental Epidemiology                                |
| 401178.1 | Controversies in Epidemiology                             |
| 401175.1 | Analytic Approaches in Epidemiology                       |
| 401176.1 | Statistical Methods in Epidemiology                       |

### Capstone Units

Students must complete at least one of the following units

|          |   |
|----------|---|
| 401080.1 | Research Protocol Design and Practice   |
| 400418.4 | Health Advancement and Health Promotion |
| 400850.2 | Professional Topic                      |
| 401078.1 | Research Project                        |
| 401079.1 | Dissertation                            |

## Postgraduate Admission Pathway - Master of Public Health - 1 year pathway

### A4011.1

The Master of Public Health course is designed for professionals working in a variety of settings, including health departments and community organisations. Public health professionals are required to effectively assess and respond to emerging public health issues. This course emphasises a comprehensive assessment of all determinants of health, which include broader social and environmental factors in addition to physical risk factors. Students can study a wide range of evaluation processes and research methods such as policy analysis, economic evaluation, epidemiology and qualitative methods. Students also receive practical skills in community development and health promotion programs, and also complete a culminating research and practice experience in the evaluation of a contemporary public health issue.

### Location

| Campus            | Mode     |
|-------------------|----------|
| Online            | External |
| Parramatta Campus | Internal |

## Specialisation Structure

Master of Public Health - one year program.

Applicants must have an undergraduate honours, master or doctoral degree in health; health administration; human biological sciences, medical, forensic, food and pharmacology sciences; welfare; behavioural science and sport and recreation disciplines.

### Core Units

All students must complete the core units below

|                 |   |
|-----------------|---|
| <b>400841.2</b> | A Global Perspective on Social Determinants of Health |
| <b>400416.2</b> | Public Health, Policy and Society                     |
| <b>401076.1</b> | Introduction to Epidemiology                          |
| <b>401077.1</b> | Introduction to Biostatistics                         |

### Alternate Units

Students enrolled in the one year program may select up to three of the following units

|                 |   |
|-----------------|---|
| <b>300391.2</b> | Occupational Health Management                            |
| <b>300677.2</b> | Safety and Risk Management                                |
| <b>400238.3</b> | Policy, Power and Politics in Health Care Provision       |
| <b>400777.3</b> | Leadership for Quality and Safety in Health Care          |
| <b>400778.2</b> | Leadership and the Development of Organisational Capacity |
| <b>400837.3</b> | Health and Socio-political Issues in Aged Care            |
| <b>400840.3</b> | Communicable Diseases                                     |
| <b>400843.2</b> | Health Workforce Planning                                 |
| <b>400844.2</b> | Health Services and Facilities Planning                   |
| <b>400845.2</b> | Health Financial Management                               |
| <b>400846.3</b> | Building Organisational Capacity in Health Care           |
| <b>400847.3</b> | Surveillance and Disaster Planning                        |
| <b>400967.2</b> | Health Economics and Comparative Health Systems           |
| <b>401081.1</b> | Organisational Governance and Performance Management      |
| <b>401173.1</b> | Introduction to Clinical Epidemiology                     |
| <b>401179.1</b> | Data Management and Programming for Epidemiology          |
| <b>401174.1</b> | Epidemiology of Non-Communicable Diseases                 |
| <b>401177.1</b> | Environmental Epidemiology                                |
| <b>401178.1</b> | Controversies in Epidemiology                             |
| <b>401175.1</b> | Analytic Approaches in Epidemiology                       |
| <b>401176.1</b> | Statistical Methods in Epidemiology                       |

### Capstone Units

Students must complete at least one of the following units

|                 |   |
|-----------------|---|
| <b>401080.1</b> | Research Protocol Design and Practice   |
| <b>400418.4</b> | Health Advancement and Health Promotion |
| <b>400850.2</b> | Professional Topic                      |
| <b>401078.1</b> | Research Project                        |
| <b>401079.1</b> | Dissertation                            |

## Units

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### **400841.2 A Global Perspective on Social Determinants of Health**

**Credit Points** 10 **Level** 7

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Evidence is mounting that the health of individuals, groups and whole populations is significantly determined by social factors - the social determinants. The related research has its origins in concern for the growing inequalities in health both within and between countries. This unit examines the framework of the social determinants of health in a global perspective and includes a reflection on the phenomenon of globalisation and its impact, both positive and negative on people's health. Students will critically reflect on this relatively new and emerging body of knowledge and research which clearly situates the maintenance of health and healthy societies within their socioeconomic and socio-cultural contexts. They will also examine implications for policy, health systems and different groups within society.

### **301010.1 Advanced Applied Mechanics**

**Credit Points** 10 **Level** 7

#### **Assumed Knowledge**

Students should have prior knowledge of strain, stress and deflection analysis of simple structures as well as knowledge of energy principle for structural analysis.

#### **Special Requirements**

Students must be enrolled in a postgraduate course

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Applied mechanics deals with the mechanical responses of structural components under various loading and support conditions. This unit will introduce the theory of elasticity and study the bending, buckling and vibration behaviours of beams, plates and shells and their associated applications in engineering practices.

### **301008.1 Advanced Composite Structures**

**Credit Points** 10 **Level** 7

#### **Special Requirements**

Students must be enrolled in a postgraduate course

.....

This unit enables students to gain an in-depth knowledge into composite structures based on Australian Standards and International Standards. Recent advances in the design of composite beams, slabs, columns and connections will be introduced.

### **301023.1 Advanced Computational Fluid Dynamics**

**Credit Points** 10 **Level** 7

#### **Assumed Knowledge**

Finite element methods, Thermal dynamics and Fluid mechanics.

#### **Special Requirements**

Students must be enrolled in a postgraduate course

.....

This unit introduces students to commonly used numerical methods used in computational fluid dynamics (CFD). The unit covers the theory and the application of CFD for solving engineering problems. The numerical methods for solving the in viscid flow and the viscous flow problems will be introduced. The students learn the application of the engineering software in the engineering problems.

### **301022.1 Advanced Computer Aided Engineering**

**Credit Points** 10 **Level** 7

#### **Assumed Knowledge**

The students are assumed to have a good understanding on basics of finite element method and analysis, fundamentals and advanced topics in mechanics of materials, fundamentals on fluid mechanics and heat transfer and thermal dynamics.

#### **Special Requirements**

Students must be enrolled in 3693 Master of Engineering, 3695 Graduate Certificate in Engineering, or the Master of Research. Essential Equipment: Finite element analysis packages – Abaqus, ANSYS and SolidWorks.

.....

This unit focuses on advanced topics in computer aided engineering and their applications in mechanical engineering in analysing a wide range of engineering problems. The objective of this unit is to advance students' knowledge and skill level on the finite element method (FEM)-based computer aided engineering (CAE) and its advanced applications in the fields of solid mechanics, fluid mechanics, thermodynamics and heat transfer and product design and development as well. Academic skills on research and communication are ensured to be achieved through conducting FEM-based CAE projects.

### **300603.3 Advanced Control Systems**

**Credit Points** 10 **Level** 7

#### **Assumed Knowledge**

Knowledge is assumed in Continuous time control systems, the use of Laplace and Z-transforms, Analog to digital, digital to analog conversion, Vector matrix difference equations, State variable models and familiarity with Matlab or similar software

#### **Incompatible Units**

300211 - Digital Control, 300172 - Advanced Control Systems



**Special Requirements**

Students must have competence in the use of test equipment, components and data sheets. Students must be enrolled in a postgraduate course

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This unit covers continuous and discrete control systems. It reviews and builds on the fundamental concepts of the theory of feedback in continuous and discrete time to examine the analysis and design of advanced continuous and discrete time linear control systems. Transfer function and state variable methods are employed. Instruction makes use of extensive experimental tasks. There is also considerable use of Matlab simulations.

**301151.1 Advanced Criminalistics**

**Credit Points** 10 **Level** 7

**Special Requirements**

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.

**300173.3 Advanced Data Networks**

**Credit Points** 10 **Level** 7

**Assumed Knowledge**

Communication Systems / Digital Communication

**Special Requirements**

Students must be enrolled in a postgraduate course

.....

This unit covers all major network technologies: asynchronous transfer mode (ATM), Internet, and telephony. Essential networking topics such as protocol layering, multiple access, switching, scheduling, routing, congestion control, error and flow control, and network security are covered in detail. An engineering approach is taken to provide insight into network design.

**301019.1 Advanced Dynamic Systems**

**Credit Points** 10 **Level** 7

**Special Requirements**

Students must be enrolled in a postgraduate course

.....

This unit covers three-dimensional kinematics and kinetics of a rigid body. The principles of virtual work are used to

investigate the equilibrium and dynamics of mechanisms. Some key aspects of mechanical vibrations are introduced, including vibration response, vibration isolation and vibration measurement.

**300601.3 Advanced Electrical Machines and Drives**

**Credit Points** 10 **Level** 7

**Assumed Knowledge**

Electric Circuits and Basic Electro magnetics.

**Incompatible Units**

300208 - Variable Speed Electric Drives, 300204 - Special Electrical Machines

**Special Requirements**

Students must be enrolled in a postgraduate course

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The subject covers various types of electrical motors and drive systems, their applications and control. The unit aims to introduce an advanced study of electrical machines and drives. It also covers application considerations and modern developments in high performance drive systems. This course covers various types of the speed control, the starting, the braking and the dynamics of different electrical machines and drives.

**301006.1 Advanced Engineering Project 1**

**Credit Points** 10 **Level** 7

**Corequisite**

**301027.1** Industrial Experience (PG)

**Special Requirements**

Students must be enrolled in a postgraduate course

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This unit develops the students' expertise in engineering project management including professional ethics and legal obligations and their research and presentation skills. It will be achieved through employment of appropriate research skills on a capstone project which demonstrates student's professional expert level of identifying and planning an engineering project.

**301007.1 Advanced Engineering Project 2**

**Credit Points** 10 **Level** 7

**Prerequisite**

**301006.1** Advanced Engineering Project 1

**Corequisite**

**301027.1** Industrial Experience (PG)

**Special Requirements**

Students must have completed 301006 Advanced Engineering Project 1 before undertaking this unit. Students must be enrolled in a postgraduate course.

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In this unit, the focus will be to work on an engineering problem in a capstone project and complete the project via enhancement of research and presentation skills of

students. It will be achieved through employment of appropriate research skills on a capstone project, which demonstrates student's professional expertise of completing an engineering project.

### **300604.3 Advanced Geotechnical Engineering**

**Credit Points** 10 **Level** 7

#### **Assumed Knowledge**

Fundamental knowledge of soil mechanics.

#### **Equivalent Units**

300520 - Foundation Engineering (PG)

#### **Special Requirements**

Students must be enrolled in a postgraduate course

.....

This unit will provide an overview of soil mechanics concepts required for the solution of practical geotechnical engineering problems. Students will be taught soil and foundation analysis including design techniques. The topics will cover shallow foundations, pile foundations, the stability of earth retaining structures, excavations, soft soils, groundwater flow and stability of slopes. Practical engineering cases will be emphasized.

### **301028.1 Advanced Healthcare Data Environments**

**Credit Points** 10 **Level** 7

#### **Special Requirements**

Students must be enrolled in a postgraduate course.

.....

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

#### **Special Requirements**

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

#### **Special Requirements**

Students must be enrolled in a postgraduate course.

.....

This unit teaches bridge superstructure design and ground engineering design prior to construction of the highway. The aim is to provide students with advanced knowledge in bridge construction, loading and structural design, ground improvement techniques to deal with soft and weak grounds, and construction of highway embankments. These aspects will be taught in relation to Australian design codes.

### **301014.1 Advanced Hydrogeology**

**Credit Points** 10 **Level** 7

#### **Special Requirements**

Students must be enrolled in a postgraduate course

.....

This unit covers occurrence of groundwater, groundwater movement, groundwater hydraulics, water wells, quality of groundwater, groundwater modelling and groundwater management. The objectives of this unit are to enable students to learn the associated concept of groundwater and apply the learnt concepts in solving groundwater problems in advanced engineering practice.

### **301119.1 Advanced Machine Learning**

**Credit Points** 10 **Level** 7

#### **Assumed Knowledge**

Fundamentals of computer programming and basic linear algebra.

#### **Prerequisite**

**301113.1** Programming for Data Science

#### **Special Requirements**

Students must be enrolled in a postgraduate course.

.....

Advanced Machine Learning explores modern methods of classification, clustering and regression to make predictions and analyse different forms of data. Issues that face all machine learning methods, such as model evaluation, assessment and generalisation will also be analysed.

### **400859.2 Advanced Mental Health Nursing Clinical Practice 1**

**Credit Points** 20 **Level** 7

#### **Assumed Knowledge**

Registered nurse students are expected to be working at an advanced practice level in a mental health setting and thus to have knowledge of a range of assessment and clinical

intervention skills and knowledge commensurate with their clinical role in this area.

**Prerequisite**

**400228.3** Assessment for Advanced Practice Mental Health Nurses AND **400858.3** Psychopharmacology for Advanced Practice Mental Health Nurses

**Incompatible Units**

400229 - Advanced Mental Health Nursing Clinical Practice 1

**Special Requirements**

Students must be registered nurses working in mental health services at an advanced clinical practice level, must nominate a clinical supervisor and must nominate a clinical panel.

.....

Students are required to demonstrate the capacity to work autonomously in a mental health setting and to be able to utilise various forms of supervision. Students undertake at least 150 hours supervised advanced practice in assessment, treatment planning and provision of care for clients in a mental health setting. Supervision is provided by a primary supervisor/mentor/assessor and a multidisciplinary clinical panel who can support and review the student's work in respect of working at an advanced level of clinical practice. The requirement for primary supervision and a review panel is mandated by the NSW Nurses and Midwives Board.

**400860.2 Advanced Mental Health Nursing Clinical Practice 2**

**Credit Points** 20 **Level** 7

**Assumed Knowledge**

This is an advanced level clinical nursing unit. Students are expected to be working in situations where they can demonstrate this level of practice. They will have advanced skills in mental health nursing assessment, clinical decision-making and treatment planning; knowledge of mental disorders and illnesses; human response to mental illness; the development of relationships with people with mental illness and their families; and a range of treatments for mental illness.

**Prerequisite**

**400228.3** Assessment for Advanced Practice Mental Health Nurses AND **400858.3** Psychopharmacology for Advanced Practice Mental Health Nurses AND **400859.2** Advanced Mental Health Nursing Clinical Practice 1

**Incompatible Units**

400231 - Advanced Mental Health Nursing Clinical Practice 2

**Special Requirements**

Students are working in mental health services at an advanced clinical practice level, are required to have previously nominated a Primary Supervisor/Mentor/ Assessor and a clinical support group.

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Students are required to demonstrate the capacity to work autonomously in a mental health setting and to be able to utilise supervision to support achievement of unit learning

objectives. Students undertake at least 150 hours supervised advanced clinical practice in assessment, treatment planning and provision of care for clients in a mental health setting. Clinical practice setting supervision is provided by a Primary Supervisor/Mentor/Assessor and a multidisciplinary clinical support group who will support and review the student's work in respect of working at an advanced level of clinical practice towards the attainment of a Nurse Practitioner qualification. A clinical assessment peer review panel that complies with NMB guidelines will be convened at the end of the session to assess the student's knowledge, clinical decision-making, understanding of therapeutic interventions including pharmacological and non-pharmacological agents, as well as their capacity to meet all requirements of the National Competency Standards for the Nurse Practitioner.

**301020.1 Advanced Mobile Robotics**

**Credit Points** 10 **Level** 7

**Assumed Knowledge**

Some basic skills in MATLAB and C/C++ programming.

**Special Requirements**

Students must be enrolled in a postgraduate course

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This unit is designed to develop an understanding of the concepts involved in Mobile Robotics. The areas of mobile robot mechanics, localisation, map building and path planning will be introduced. Various sensors and their applications in mobile robotics are also to be introduced.

**301024.1 Advanced Numerical Methods in Engineering**

**Credit Points** 10 **Level** 7

**Assumed Knowledge**

Students should have prior knowledge of strain, stress and deflection analysis of simple structures as well as knowledge of energy principle for structural analysis.

**Special Requirements**

Students must be enrolled in a postgraduate course

.....

The finite element method is an essential tool for the analysis and design of machine parts and civil engineering structures. The objective of this unit is to introduce the principles of finite element method and the applications of one, two and three dimensional elements in solving various engineering problems.

**301025.1 Advanced Power Quality**

**Credit Points** 10 **Level** 7

**Assumed Knowledge**

Students are expected to be familiar with basic power system calculations including balanced and unbalanced three-phase systems.

**Special Requirements**

Students must be enrolled in 3693 Master of Engineering, 3695 Graduate Certificate in Engineering or the Master of Research.

.....

This unit is to introduce students to power quality phenomena such as voltage sag/swell, distortions, unbalance, and flicker that occur in power systems. The unit also introduces terms and definitions associated with power quality, following which each phenomenon, that is, voltage sag/swell, transient overvoltage, and harmonics. In addition, flicker is presented and discussed in detail for students to understand the sources and impact of these occurrences on power system as well as typical mitigation techniques. Finally, students are introduced to power quality benchmarking, monitoring, assessment. In addition Advanced knowledge on network frequency responses is presented.

### **400834.1 Advanced practice: Infant and Child feeding and Nutrition**

**Credit Points** 10 **Level** 7

#### **Assumed Knowledge**

Basics of breastfeeding including techniques for positioning and attachment and common breastfeeding problems; socio-cultural and political context of infant feeding; normal newborn behaviour, infant-parent attachment, factors that influence the transition to parenthood and parenting styles; skills required to critically appraise research literature and high level communication skills and capacity to work in partnership with families.

#### **Special Requirements**

Students must be a Registered Nurse, Registered Midwife or health professional due to public safety issues.

.....

This unit provides students with advanced theoretical knowledge around infant and young child feeding. The course is predominantly theoretical although students will also be expected to gain practical skills including developing the capacity to undertake comprehensive breastfeeding assessments and assessment of nutritional status in children 0 to 5 years of age. Topics covered include management of complex breastfeeding problems and skills to support women who have unexpected birth outcomes with breastfeeding; the impact of acute and chronic infant and childhood illness on nutritional status and feeding; evidence based strategies and approaches to facilitate good nutritional practices including breastfeeding among disadvantaged and vulnerable populations and working effectively in multidisciplinary teams and with peer or volunteer support groups to promote and support healthy infant and young child feeding practices. There is 120 hours of theoretical content of which approximately 90 hours is directly related to breastfeeding and human lactation. The role of the lactation consultant and legal and ethical issue are addressed for those who wish to work towards this qualification in the future.

### **300599.3 Advanced Robotics**

**Credit Points** 10 **Level** 7

#### **Assumed Knowledge**

Some Knowledge of MATLAB/Simulink

#### **Incompatible Units**

300176 - Advanced Robotics, 300192 - Mobile Robotic Systems

#### **Special Requirements**

Students must be enrolled in a postgraduate course

.....

This unit is designed to introduce the engineering concepts involved in Robotics. The kinematics, dynamics, control and sensing aspects in robotics will be introduced. In addition, the concepts of artificial intelligence and their applications in robotics will also be discussed and assessed.

### **301065.1 Advanced Routing**

**Credit Points** 20 **Level** 7

#### **Special Requirements**

Students must be enrolled in the online courses Master of Advanced Networking or any other postgraduate 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. 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

#### **Special Requirements**

Students must be enrolled in a postgraduate course

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This unit covers the principles and techniques in signal processing. The subject matter includes advanced topics in discrete-time signals and systems, the z-transform and its applications in signal processing, advanced topics in the sampling of continuous-time signals, FIR and IIR filter design, filter structures, and the discrete Fourier transform and its computation. Students develop skills of analysing and designing digital signal processing systems.



### 301026.1 Advanced Smart Grids and Distributed Generation

**Credit Points** 10 **Level** 7

#### Special Requirements

Students must be enrolled in a postgraduate course

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This unit is designed to model, analyse and control of newly developing areas of distributed generation and smart grids. The unit will cover modelling, control, simulation and protection of such systems. The unit will also cover the impacts of renewable sources and power electronics on the operation of smart grids and micro-grids. The unit will also cover environmental and economic impacts of such systems.

### 301013.1 Advanced Statistical Hydrology

**Credit Points** 10 **Level** 7

#### Special Requirements

Students must be enrolled in a postgraduate course

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This unit covers at-site flood frequency analysis, regional flood frequency analysis, trend analysis of hydrological data, linear regression analysis and multivariate statistical techniques to solve advanced hydrological problems.

### 301115.1 Advanced Statistical Methods

**Credit Points** 10 **Level** 7

#### Prerequisite

**301113.1** Programming for Data Science AND **301114.1** The Nature of Data

#### Corequisite

**301044.1** Data Science

#### Special Requirements

Students must be enrolled in a postgraduate course.

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There has been a significant trend away from simple statistical models for complex and Big Data. Advanced Statistical Methods is a technical unit that looks at computer intensive statistical techniques for modelling complex data. Students will learn about methods including Density Estimation, the Expectation-Maximisation (EM) algorithm, Bayesian models and Markov-Chain Monte-Carlo (MCMC) methods, enabling them to apply sophisticated statistical tools in a Data Science setting.

### 300594.4 Advanced Structural Analysis

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

Students must have knowledge in engineering mathematics, engineering mechanics at intermediate level and structural analysis at fundamental level.

#### Incompatible Units

300205 - Linear and Nonlinear Analysis of Structures, 300367 - Advanced Structural Engineering, 300195 - Numerical and Finite Element Methods

#### Special Requirements

Students must be enrolled in a postgraduate course

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This unit introduces students to the aspects of structural analysis of beams, trusses, frames and plates. It covers several displacement based methods for the analysis of trusses, beams and frames, i.e. slope deflection method and matrix method. The basic concepts of plate bending analysis will be discussed. This unit aims to teach students to master necessary skills in structural analysis as well as skills in using computer software to analyse complex structures.

### 301021.1 Advanced Thermal and Fluid Engineering

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

Fundamental knowledge of fluid mechanics, theory of thermodynamics, knowledge of heat transfer including conduction, convection.

#### Special Requirements

Students must be enrolled in a postgraduate course

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This unit covers fundamental principles in the thermal and fluid engineering. While the main focus will remain on incompressible fluids, effects of compressible fluids will also be discussed. The contents of this unit include fluid mechanics, thermodynamics and heat transfer. Students will learn the engineering applications of thermal and fluid principles.

### 301009.1 Advanced Timber Structures

**Credit Points** 10 **Level** 7

#### Special Requirements

Students must be enrolled in a postgraduate course

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This unit enables students to gain an in-depth knowledge into timber structures based on Australian Standards. Design of timber beams, floors, columns and connections will be introduced with a focus on the use of plywood, round timbers, glue-laminated timber and structural laminated veneer lumber.

### 300694.3 Advanced Topics in ICT

**Credit Points** 10 **Level** 7

#### Prerequisite

**301005.1** Professional Practice and Communication

#### Special Requirements

Students must be enrolled in a postgraduate course. Students in 3698 Master of Information and Communications Technology (Advanced) or 3699 Master of



Information and Communications Technology must be enrolled in or have passed 301004 Research Preparation in Post Graduate Studies before enrolling in this unit.

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The information and communications technologies are advancing at an ever-increasing rate. The whole world is now interconnected. The World Wide Web community is actively engaged in developing the next generation of the Web. Social networking on the Internet is facilitated by the latest developments such as Facebook, YouTube and MySpace. Artificial Intelligence is increasingly intertwined with the decisions we make every day. Large scale storage technologies are leading to Cloud Computing where data and applications may reside anywhere in the world. Research in how to access meaningful data from the vast amounts on the Web has led to initiatives such as Semantic Web and Linked Data. Mashups mix data from disparate sources to enable users to work more efficiently. Wireless and mobile computing are changing the market place. All of these trends are still in their early stages. To make sense of all these developments, the top echelons of the World Wide Web Consortium are actively engaged in creating a new discipline called Web Science. Advanced Topics in ICT will enable the students to appreciate the scale of new developments and create prototypes of applications in their desired ambit. This unit consists of three Topics selected each semester. Assessment will be by a series of discussion paper assignments 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.

#### Special Requirements

Students must be enrolled in a postgraduate course

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This unit focuses on the advanced features of networked systems and the emerging network technologies and services. The unit provides students with an in-depth understanding of relevant protocols, the emerging standards, and standards organisations. The emphasis of the unit is on development of the student skills to enable them to do proficient research and development works and studies in the computer networking discipline.

### 301045.2 Advanced Topics in User System Interaction

**Credit Points** 10 **Level** 7

#### Incompatible Units

300570 - Human-Computer Interaction; 300901 - Human-Computer Interaction (Advanced)

#### Special Requirements

Students must be enrolled in 3698 Master of Information and Communications Technology (Advanced), 3699 Master of Information and Communications Technology, 3700 Graduate Diploma in Information and Communications Technology, 3701 Graduate Certificate in Information and Communications Technology, 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

#### Special Requirements

Students must be enrolled in a postgraduate course

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This unit covers sources identification and characterisation of solid and hazardous waste generated from the community. Sustainable management of waste incorporating minimisation, recycle, recovery and disposable options is discussed. Also, atmospheric pollutants and their control, greenhouse gases and their impact on climate change are examined.

### 301016.1 Advanced Water and Wastewater Treatment

**Credit Points** 10 **Level** 7

#### Special Requirements

Students must be enrolled in a postgraduate course

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The unit focuses on design of conventional and emerging water and wastewater treatment unit processes using fundamental science and hydraulic engineering principles. The focus is on practical design. The student will be exposed to emerging water and wastewater treatment processes and its applications through research.

### 300595.3 Advanced Water Engineering

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

Exposure to basic hydraulics and engineering hydrologic principles.

#### Incompatible Units

300766 Hydrology; 300983 Surface Water Hydrology

### Special Requirements

This is a specialised unit in a specialist discipline in Master of Engineering program. Students must be enrolled in a 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.

### 401063.1 Allergic Sciences

**Credit Points** 20 **Level** 7

#### Assumed Knowledge

Must have completed a medical degree (MBBS, MBChB or equivalent qualification) and be practising as a medical practitioner in clinical practice.

#### Equivalent Units

400988 - Allergic Sciences 1 AND 400989 - Allergic Sciences 2

#### Special Requirements

Students must be enrolled in 4689 - Graduate Certificate in Allergic Diseases. Students must be practising medical practitioners and be able to access a specialist Immunology and Allergy clinic while they are undertaking this unit. Such clinics are located in accredited teaching hospitals in the Australian and New Zealand health systems and are based predominantly in capital cities. 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 participate in video case conference group discussions.

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This yearlong unit will consist of eight online modules dealing with the basic science of allergic disease. The modules will cover Immunology, Allergic Skin Disease, Food Hypersensitivity, Food Related Gastrointestinal Disease and Anaphylaxis, Allergic Airways Disease, Allergic Rhinoconjunctivitis, Drug and Insect Allergy, and Paediatric Allergy. These modules will provide a sound basis for managing children and adults with common allergic conditions in clinical practice. Support will be available from experienced Clinical Immunologists/Allergists. The purpose of Allergic Sciences is to cover the fundamental theoretical and clinical concepts underlying allergic diseases. The modules link basic science with clinical understanding and will enable students to undertake the clinical experiences that are co-requisite with this unit. Students will need to attend two written exams at a university approved venue as part of the assessment for this unit.

### 200499.5 Alternative Solutions for Bushfire Prone Areas

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

Students must have prior knowledge of bushfire behaviour, planning, building and bushfire fighting and emergency management.

#### Prerequisite

**200457.3** Bushfire Behaviour AND **200500.2** Bushfire Fighting AND **200458.2** Building in Bushfire Prone Areas AND **300708.3** Planning and Development Control AND **300948.1** Fire Technology and Engineering Principles

#### Corequisite

**200459.3** Emergency Management for Bushfire Prone Areas

#### Special Requirements

Students must be enrolled in a postgraduate course.

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This unit describes the processes and techniques available to develop alternative approaches and solutions to the planning and building of structures within bushfire prone areas. The course builds on other units in the course to consider the concept of measures in combination so as to reduce the effects of bushfire on life, property and the environment. It also introduces the concepts of "bushfire engineering guidelines" and processes similar to that used in developing alternative solutions under the Building Code of Australia. Students are required to develop an alternative solution for bushfire affected premises.

### 401175.1 Analytic Approaches in Epidemiology

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

Introductory skills in epidemiology, including measures of disease frequency and association, epidemiologic study designs, and principles of bias and confounding.

#### Prerequisite

**401076.1** Introduction to Epidemiology OR **401173.1** Introduction to Clinical Epidemiology

#### Special Requirements

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.

#### **Special Requirements**

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.

### **401167.1 Applied Research in Health Care**

**Credit Points** 10 **Level** 7

#### **Equivalent Units**

400200 - Applied Nursing Research

#### **Special Requirements**

Students must be enrolled in a postgraduate course.

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Research is a necessary undertaking toward the continued development of nursing, midwifery and health science and practice. This unit prepares students for undertaking or participating in research in the clinical setting. It also seeks to prepare students to consider higher degree research opportunities. Students will explore the various theoretical underpinnings of research as well as develop a clear understanding of various research designs, data collection methods, sampling techniques and data analysis.

### **400856.2 Approaches to Epidemiology**

**Credit Points** 10 **Level** 7

#### **Equivalent Units**

HC812A - Approaches to Epidemiology

#### **Special Requirements**

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

#### **Special Requirements**

Students must be enrolled in a postgraduate course. Students enrolled in course 4673 must have passed the following three units before they can enrol in this unit: 400238 - Policy, Power and Politics in Health Care Provision and 400777 - Leadership for Quality and Safety in Health Care and 400957 - Biological Considerations in Mental Health and Mental Illness for Advanced Practice.

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This unit examines assessment and treatment planning practices for advanced practice nurses. Components of the unit include advanced assessment skills, diagnostic decision making, judicious ordering, reading and interpretation of pathology and radiology tests, triaging and prioritisation, pharmacology, intervention and referral skills. These skills will be addressed in a range of assessment and decision-making situations, to include assessment across the lifespan and recognizing deviation from the norm. Nurses working at an advanced practice level are expected to be able to autonomously undertake comprehensive mental health assessments, and to apply clinical judgement to decision making and treatment planning.

### **301046.1 Big Data**

**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

#### **Special Requirements**

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.

### 301155.1 Biological Agents 2

**Credit Points** 10 **Level** 7

#### Special Requirements

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.

### 400957.4 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.

#### Special Requirements

Students must be enrolled in a postgraduate course. Students enrolled in course 4673 must have passed the following three units before they can enrol in this unit: 400220 Contemporary Professional Practice in Mental Health Nursing and 400206 Evidence-based Nursing and 400235 Leadership in Clinical Practice.

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This unit examines neuroanatomy and neurophysiology as they apply to altered thought, mood, perception and behaviour associated with mental illness 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

#### Special Requirements

Students must be enrolled in 4697 Graduate Diploma in Midwifery and can only be undertaken by a registered nurse employed in a participating NSW Health Local Health District facility in the position of a midwifery student.

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This unit provides students with an understanding of the biological and physiological aspects of human reproduction including the menstrual cycle, fertilisation and embryology, pregnancy, labour, birth and the early postnatal weeks. Emphasis will be placed on normal maternal anatomy and physiology of pregnancy, labour and birth and the postnatal period. It will include fetal growth and development,

adaptation of the newborn and growth and development to six weeks of age.

### 301149.1 Blood Distribution and Spatter

**Credit Points** 10 **Level** 7

#### Special Requirements

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.

### 300713.3 Building Engineering

**Credit Points** 10 **Level** 7

#### Equivalent Units

EN808A - Building Engineering

#### Special Requirements

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

#### Special Requirements

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

#### Special Requirements

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

#### **Special Requirements**

Students must be enrolled in a postgraduate course.

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The concept, form and structure of health care organisations are explored. Organisational theory is used to analyse contemporary health care structures. Factors which influence organisational design, function and effectiveness are discussed including: organisational behaviour, strategy, culture, power and politics, technology, sustainability and effectiveness. A major focus is planning for strategic organisational development to meet the challenges of rapid change and the need for performance improvements in patient care delivery. Concepts related to the strategic development of workforce capacity in the health care arena considered through the application of theories including the learning organisation. Leadership is examined with emphasis on change management.

### **300947.2 Building Regulations**

**Credit Points** 10 **Level** 7

#### **Assumed Knowledge**

This unit assumes that the student has undertaken coursework in building construction, building surveying, engineering, architecture or a related area or has the relevant AQF qualification and gained basic building regulation knowledge by working in the construction industry in an appropriate capacity for at least four years.

#### **Equivalent Units**

300719 - Fire and Building Regulations

#### **Special Requirements**

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

#### **Special Requirements**

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.

#### **Special Requirements**

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

#### Special Requirements

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.

### 401083.1 Capstone Experience in Health Care

**Credit Points** 20 **Level** 7

#### Special Requirements

Students must be enrolled in a postgraduate course and have successfully completed 60 credit points at Level 7.

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This unit offers a range of options for students to integrate, extend and reflect on the professional knowledge and skills gained through their masters level studies. It will provide a framework within which students can explore professionally relevant situations. Students will have the opportunity to nominate, plan and execute a capstone experience relevant to their professional interests. In doing so, students will develop a professional portfolio or e-portfolio that will incorporate the work undertaken during the degree studies and extend to include a critical reflection of their graduate capacity and professional development.

### 400972.2 Child and Family Health Practice: Supporting Growth and Development

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

Students require basic knowledge of infant and child health at an undergraduate level, augmented with clinical experience as a general Registered Nurse or Registered Midwife.

#### Equivalent Units

400207 - Childhood in Child and Family Health Nursing, 400829 - Child and Family Health Nursing: Supporting Child Growth and Development

#### Special Requirements

Due to clinical placement requirements for this unit, students must be enrolled in 4682 Master of Child and Family Health (Karitane) or 4683 Graduate Certificate in Child and Family Health (Karitane). Patient safety issues

are associated. Students must complete the NSW Health Special Requirements for clinical practicum attendance. At present these include: Prohibited Employment Declaration prior to 1 June 2010 or a Working with Children Check Student Declaration after 1 June 2010, Criminal Record Check form prior to 1 June 2010 or a Student Undertaking Form after 1 June 2010 and have applied for a National Police Certificate, Adult Health Immunisation Schedule. NSW Ministry of Health may request additional documents according to policy changes. Students outside NSW are expected to meet any other state requirements for clinical placement.

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This unit provides the student with knowledge of the theories of child development and the foundational knowledge and skills to be applied in the screening, surveillance and promotion of health and well-being of young children and families. This includes current immunisation schedules and use of evidence-based developmental screening tools. Content will focus on the normal physical, social and emotional growth and development of young children (0-5 years). The importance of the early years in brain development including infant-parent attachment will be linked to an exploration of child behaviour, sleep and settling, play and safety issues. The child and family health nurses' role in supporting families experiencing infant sleep and settling difficulties and behaviour problems will be addressed. The application of knowledge gained in this unit will be applied through a 40 hr clinical placement in a primary level child and family health facility.

### 400971.1 Child and Family Health: Professional Practice and Frameworks

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

An understanding of professional frameworks and competencies for the Registered Nurse or Registered Midwife at a undergraduate level, augmented with clinical experience at a general Registered Nurse or Registered Midwife level.

#### Equivalent Units

400828 - Child & Family Health Nursing :Professional Practice and Frameworks

#### Special Requirements

Students must be enrolled in 4682 Master of Child and Family Health (Karitane), 4713 Master of Child and Family Health (Karitane), 4714 Graduate Diploma in Child and Family Health (Karitane) or 4715 Graduate Certificate in Child and Family Health (Karitane).

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Child and family health is a diverse speciality area with child and family health professionals required to work autonomously across a variety of clinical settings. This unit will focus on the scope and standards of practice of Child and family health practise exploring; historical beginnings and current models of care, appropriate legal & ethical issues and government policies and initiatives that influence practice. Informed by the principles of Primary Health Care, the student will gain skills in supporting families and children within the context of a strengths based

partnership model. Health promotion, public health, health surveillance and cultural competence are introduced in this unit. The various strategies for the appropriate support of child and family health professionals will be addressed. In this unit emphasis is also placed on critical thinking and the development of scholarly writing.

### **401089.1 Childbirth in the Australian Context**

**Credit Points** 20 **Level** 7

#### **Special Requirements**

Students must be enrolled in 4697 Graduate Diploma in Midwifery and be a registered nurse employed in a participating NSW Health Local Health District facility in the position of a midwifery student. Students must have access to the internet and a computer.

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This unit provides students with the knowledge to work, using a primary health care approach, with women and their families during childbirth including the transition to parenthood. Emphasis will be placed on the biological, psychosocial and cultural aspects of the pregnancy, birth and the postnatal period and understanding of the role of the midwife in maintaining a woman and family focus within a continuity of care model. The neonatal period will also be examined. Childbirth in our culturally diverse maternity health system will be explored, investigated, analysed and discussed with a specific focus on Aboriginal and Torres Strait Islander peoples. This will include the history of Aboriginal and Torres Strait Islander peoples and how events in history have impacted on their health and birthing practices. Experiences of women from other countries and cultures will be examined.

### **401137.1 Chronic and Complex Disorders in Chinese Medicine**

**Credit Points** 10 **Level** 7

#### **Incompatible Units**

400687 - Chinese Medicine Specialties AND 400572 - Dermatology in Chinese Medicine

#### **Special Requirements**

Students must be enrolled in 4716 Master of Chinese Medicine (or Master of Health Science (Traditional Chinese Medicine) and/or Master of Health Science (Acupuncture)

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This unit will enable practitioners to extend their clinical reasoning skills to chronic and complex conditions seen in contemporary Chinese Medicine clinical practice. The unit will analyse specific cases and conditions which present a range of complex and contradictory signs and symptoms making diagnosis and treatment challenging. Senior practitioners of both acupuncture and Chinese herbal medicine will present their own clinical experience and assist students to understand their diagnostic and treatment processes.

### **401064.2 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.

#### **Equivalent Units**

400990 - Clinical Allergy 1, 400991 - Clinical Allergy 2

#### **Special Requirements**

Students must be enrolled in 4689 Graduate Certificate in Allergic Diseases. Students must be practising medical practitioners and be able to access a specialist Immunology and Allergy clinic. Such clinics are located in accredited teaching hospitals in the Australian and New Zealand health systems and are based predominantly in capital cities. Students must undergo routine employment screening and checks according to hospital and government health policy, including proof of vaccination and working with children clearance, and meet institutional requirements for honorary clinicians before they can attend the clinic.

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This yearlong unit will consist of 50 hours of supervised consultation of patients with allergic disease 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. The unit consists of the following clinical experiences: (1) History, physical examination of patients with allergic diseases; (2) Investigation of patients with allergy including skin prick testing and spirometry; (3) Management of patients with various allergic diseases including anaphylaxis. Students will be under the supervision of experienced Clinical Immunologists/Allergists and will develop their clinical skills in the diagnosis and management of children and adults with allergic diseases. Students will 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.

### **401130.1 Clinical Application of Classical Chinese Herbal Medicine**

**Credit Points** 10 **Level** 7

#### **Special Requirements**

Students must be enrolled in 4716 Master of Chinese Medicine (or 4675 Master of Health Science (Traditional Chinese Medicine) and/or 4678 Master of Health Science (Acupuncture).

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This unit presents the origin, development and features of classical Chinese herbal medicine (Jing Fang), and reveals their pharmacological and clinical outcomes based on the latest clinical observation and research. This unit will appeal to practitioners seeking to extend and deepen their knowledge and clinical skills with Chinese herbs and to students embarking on research in this area. The classical texts contain deep insights on Chinese herbs and formulae

for a range of conditions. Selective herbal formulae from the Treatise on Cold Pathogenic Diseases (Shanghan Lun) and the Synopsis of Golden Chamber (Jingui Yaolue) are explored in depth to demonstrate the clinical applications.

### **401131.1 Clinical Applications of Classical Acupuncture**

**Credit Points** 10 **Level** 7

#### **Equivalent Units**

400578 - Advanced Acupuncture

#### **Special Requirements**

Students must be enrolled in 4716 Master of Chinese Medicine (or 4675 Master of Health Science (Traditional Chinese Medicine) and/or 4678 Master of Health Science (Acupuncture)

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This unit presents the origin, development and features of classical acupuncture and reveals the clinical outcomes based on the latest clinical observation and research. This unit will appeal to practitioners seeking to extend and deepen their knowledge and clinical skills with traditional acupuncture and to practitioners embarking on research in this area. Ancient acupuncture theories and techniques will be taught with a focus on their application to contemporary practice based on latest research and on the different theoretical approaches in the design of acupuncture point prescriptions.

### **400993.2 Clinical Minimally Invasive Gynaecological Surgery 1**

**Credit Points** 30 **Level** 7

#### **Special Requirements**

Students must be advanced trainee in Obstetrics and Gynaecology undertaking a fellowship at Blacktown Hospital. Students must be enrolled in 4690 Master of Surgery in Advanced Gynaecological Surgery.

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Students undertaking this unit will have a detailed knowledge of open abdominal surgery at commencement. This unit will extend their knowledge in the practical aspects of laparoscopic surgery. This unit will be completed in Year 1 of the program.

### **401057.2 Clinical Minimally Invasive Gynaecological Surgery 2**

**Credit Points** 30 **Level** 7

#### **Prerequisite**

**400993.2** Clinical Minimally Invasive Gynaecological Surgery 1

#### **Special Requirements**

Students must be advanced trainees in Obstetrics and Gynaecology undertaking a Fellowship in Minimally Invasive Gynaecological Surgery at Blacktown Hospital or other accredited site. Students must be enrolled in 4690 Master of Surgery in Advanced Gynaecological Surgery

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Students undertaking this unit will have a detailed knowledge of open abdominal surgery at commencement. This unit will extend their knowledge in the practical aspects of laparoscopic surgery. This unit will be completed in Year 2 of the program.

### **401136.1 Clinical Oncology and Chinese Medicine**

**Credit Points** 10 **Level** 7

#### **Special Requirements**

Students must be enrolled in 4716 Master of Chinese Medicine (or 4675 Master of Health Science (Traditional Chinese Medicine) and/or 4678 Master of Health Science (Acupuncture).

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This unit is focused on the clinical application of Chinese herbal medicine (CHM) and acupuncture in the management of cancer. Today, cancer is one of the leading causes of death and disease burden. Survival rates for many types of cancer have improved in recent years and long-term survival challenges accepted practices in cancer care and management. This unit explores application of Chinese medicine to the management of cancer, through the ancient wisdom in the classic literature recourses and contemporary clinical practice and research. The unit addresses the commonly used strategies, approaches and roles of Chinese medicine at different stages of cancer as well as the use of Chinese medicine as a supplementary therapy for common types of cancer.

### **401133.1 Clinical Placement**

**Credit Points** 20 **Level** 7

#### **Prerequisite**

**401132.1** Women's Health in Chinese Medicine OR  
**401134.1** Musculoskeletal Health in Chinese Medicine OR  
**401136.1** Clinical Oncology and Chinese Medicine OR  
**401137.1** Chronic and Complex Disorders in Chinese Medicine

#### **Special Requirements**

Students must be enrolled in 4716 Master of Chinese Medicine. Require National Police Check, Working with Children Check and the first aid certificate.

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This unit provides 4 weeks of full-time (or part-time equivalent) clinical placement with a choice of clinical training in the defined specialty areas (women's health, musculoskeletal health, mental and neurological disorders, oncology, or chronic and complex diseases). The clinical placement is with experienced specialist practitioners provided in conjunction with the Beijing University of Chinese Medicine in China or by an approved alternative arrangement with the student and limited by available opportunities.

### **400830.3 Clinical Practice: Infant and Child Nutrition and Feeding**

**Credit Points** 10 **Level** 7

#### **Special Requirements**

Clinical requirements for this course preclude students other than those enrolled in 4682 Master of Child and Family Health (Karitane), 4713 Master of Child and Family Health (Karitane), 4683 Graduate Certificate in Child and Family Health (Karitane), 4714 Graduate Certificate in Child and Family Health (Karitane) or 4715 Graduate Certificate in Child and Family Health (Karitane) from taking this unit. Patient safety issues are associated. Students will need to have completed the NSW Health Special Requirements for clinical practicum attendance. At present these include: Prohibited Employment Declaration prior to 1 June 2010 or a Working with Children Check Student Declaration after 1 June 2010, Criminal Record Check form prior to 1 June 2010 or a Student Undertaking Form after 1 June 2010 and have applied for a National Police Certificate, Adult Health Immunisation Schedule. NSW Ministry of Health may request additional documents according to policy changes. Students outside NSW are expected to meet any other state requirements for clinical placement.

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This unit focuses on infant feeding including breast feeding as a significant social and cultural process not just an issue of physiology and nutrition. The theoretical component of this unit will focus on the age-appropriate nutrition of infants and young children linked to developmental stages and the role the child and family health professional in supporting families manage associated issues. All areas of early nutrition will be covered including breastfeeding, use of breast-milk substitutes, introduction of solids and toddler nutrition. The knowledge gained in this unit will be consolidated through an 80 hour clinical placement in a primary, secondary or tertiary child and family health facility.

### **401139.1 Clinical Supervision in Health Care**

**Credit Points** 10 **Level** 7

#### **Special Requirements**

Students must be enrolled in a postgraduate course, and have access to the internet and a computer.

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This unit aims to provide students with foundational knowledge related to clinical supervision. Clinical supervision is a supportive formal process which enables health care professionals to develop and improve practice, thus potentially improving outcomes for services and service users. Students will explore various models and theories which underpin clinical supervision, and the principles of effective supervision, including legal, ethical and professional considerations. Students will be encouraged to develop skills in self-awareness and reflective practice and to apply these skills to enhance professional growth and outcomes for service users.

### **400973.1 Clinical Teaching and Professional Development**

**Credit Points** 10 **Level** 7

#### **Equivalent Units**

400724 - Clinical Teaching and Professional Development

#### **Special Requirements**

Students must be enrolled in a postgraduate course

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This unit prepares educators and clinicians for their role in clinical education through critical appraisal of their scope of practice, competence and professional practice environment. Students will identify and operationalise key priorities for learning and teaching in their organisation and address these by providing appropriate and relevant teaching and learning experiences that build the capacity of colleagues.. Theoretically informed, experiential strategies will enable students to explore the potential that clinical teaching has in transforming practices and workplaces.

### **400974.1 Clinical Teaching for Learning**

**Credit Points** 10 **Level** 7

#### **Special Requirements**

Students must be enrolled in a postgraduate course

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This unit prepares educators, clinical facilitators and clinicians for their role in clinical teaching and learning. Students will identify learner needs and create and initiate evidence based teaching interventions and assessment strategies. Theoretically informed, experiential strategies will enable students to develop their expertise as clinical teachers and assessors in the workplace.

### **301042.1 Cloud Computing**

**Credit Points** 10 **Level** 7

#### **Assumed Knowledge**

Basic knowledge of networked and computer systems. Basic programming skills.

#### **Special Requirements**

Students must be enrolled in a postgraduate course.

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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.



### **400839.1 Collaborative Inquiry for Primary Health Care Action**

**Credit Points** 10 **Level** 7

#### **Equivalent Units**

400775 - Project Proposal PHC

#### **Special Requirements**

Students must be enrolled in 4569 Master of Primary Health Care or 4694 Master of Primary Health Care.

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This unit provides the opportunity for students to apply the principles of primary health care in a proposal to address an issue of primary health care concern in their workplace or community. The student will gain comprehensive knowledge of the process of action research, participatory action research and cooperative inquiry. Each student will have the opportunity to write a proposal using a collaborative inquiry approach that involves planning a genuine partnership to examine and make changes to improve an identified issue in the student's specific area of work / practice.

### **400840.3 Communicable Diseases**

**Credit Points** 10 **Level** 7

#### **Special Requirements**

Students must be enrolled in a postgraduate 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.

### **401091.1 Complex Care**

**Credit Points** 10 **Level** 7

#### **Prerequisite**

**401089.1** Childbirth in the Australian Context AND  
**401090.1** Midwifery Practice 1

#### **Corequisite**

**401093.1** Midwifery Practice 2

#### **Special Requirements**

Students must be enrolled in 4697 Graduate Diploma in Midwifery and be a registered nurse employed in a participating NSW Health Local Health District facility in the position of a midwifery student. Students must have access to the internet and a computer.

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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.

### **200826.1 Contemporary People Management**

**Credit Points** 10 **Level** 7

#### **Equivalent Units**

46518 - Human Resource Management, 200718 - Human Resource Management

#### **Special Requirements**

Students must be enrolled in a postgraduate Business course.

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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.

#### **Special Requirements**

Students must be enrolled in a postgraduate course.

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Professional practice in Mental Health Nursing is continually evolving to meet changing social, political and legal requirements related to mental health issues. These requirements include changes in social and political understandings of mental illness and the rights and responsibilities of consumers, carers and providers. There has also been increased emphasis on health promotion, prevention and education in population specific contexts (eg, aged care, child and family, adolescent mental health, alcohol and other drugs services). Mental Health Nurses thus face challenges to develop practice that is congruent with the context of these changing requirements. This unit aims to provide a basis of inquiry into contemporary practice (s) from which the nurse can build an ongoing understanding and appreciation of changing influences.



### **300697.2 Content Management Systems and Web Analytics**

**Credit Points** 10 **Level** 7

#### **Assumed Knowledge**

Web development and HTML basics.

#### **Equivalent Units**

300264 Web Site Management and Security

#### **Special Requirements**

Students must be enrolled in a postgraduate course.

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Content management systems (CMS) is a collective name for a wide range of web applications used by organisations/institutions/enterprises and social communities in establishing a continuing web presence. They may connect to backend systems and can provide complete web application services. This unit builds on both the conceptual and practical skills/knowledge to develop and utilise CMS's; in their management; in technical, legal, ethical and security issues; and in utilising web analytics to obtain business intelligence of their operation and impact.

### **401178.1 Controversies in Epidemiology**

**Credit Points** 10 **Level** 7

#### **Prerequisite**

**401076.1** Introduction to Epidemiology OR **401173.1** Introduction to Clinical Epidemiology

#### **Special Requirements**

Students must be enrolled in a 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)

#### **Special Requirements**

Must be enrolled in the Master of Forensic Science, the Graduate Diploma in Forensic Science, or the Graduate Certificate in Forensic Science

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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.

### **401082.1 Cultural and Social Diversity in Health Care**

**Credit Points** 10 **Level** 7

#### **Special Requirements**

Students must be enrolled in a postgraduate course.

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This unit encourages students to investigate and discuss the concepts of health and illness in the context of cultural and social diversity. The unit promotes the attainment of critical knowledge and core principles necessary for students to become holistic, culturally and socially sensitive and appropriately adaptable when meeting the health needs of Aboriginal and Torres Strait Islander people, other marginalised and vulnerable groups including refugees and those from LGBTI community, and people from other diverse cultural and social backgrounds. A case study approach provides a framework for students to explore the impact of different attitude and value systems relating to the health of peoples in Australia.

### **102424.1 Cyber Justice**

**Credit Points** 10 **Level** 7

#### **Special Requirements**

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 reimaged 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.

#### Special Requirements

The student must be enrolled in 4750 Masters of Medicine (Pathology) postgraduate course. 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. If a student fails to meet these requirements they will not be allowed to enrol in the unit.

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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

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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.

### 401179.1 Data Management and Programming for Epidemiology

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

High school mathematics (arithmetic, formulas and algebra, reading graphs). Basic computer competency and basic programming skills.

#### Prerequisite

**401077.1** Introduction to Biostatistics

#### Special Requirements

Students must be enrolled in a postgraduate course.

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Modern epidemiology deals with ever increasing volumes of data and complexity of analysis. This course is aimed at equipping students with effective practices for managing data and programme code and ensuring the security of their data. Students will be taught the fundamentals of managing code and data in a revision control system as well as good programming practices and techniques which can form a basis for a robust, repeatable and test-driven research methodology. Programming instruction and exercises will use the SAS and R languages, and SQL databases.

### 301044.1 Data Science

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

Basic Statistics, Computer Programming

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The explosion of data in the internet age opens up new possibilities for agencies and business to better serve and market to its customers. To take full advantage of these opportunities requires the ability to consolidate, manage and extract information from very large diverse data sets. In science, data sets are growing rapidly, with projects routinely generating terabytes of data. In this unit we examine the software tools and analytic methods that underpin a successful Data Science Project and gain experience in big data analytics.

### 301015.1 Deep Foundations

**Credit Points** 10 **Level** 7

#### Special Requirements

Students must be enrolled in a postgraduate course

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This unit covers advanced analysis and design criteria for deep foundations. Both statically and dynamically loaded deep foundations are covered including the site investigation methods and field testing methods adopted in practice for determining integrity and load carrying capacity. Appropriate computer software will be introduced to carry out the deep foundation design according to the Australian Standards.

### 301050.1 Disaster and Emergency Management (PG)

**Credit Points** 10 **Level** 7

#### Special Requirements

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.

### 401079.1 Dissertation

**Credit Points** 40 **Level** 7

#### Assumed Knowledge

Core (or foundational) units associated with their Masters program, ideally in relevant research design and practice related disciplines.

#### Corequisite

**401076.1** Introduction to Epidemiology AND **401077.1** Introduction to Biostatistics

#### Special Requirements

Students must be enrolled in a post-graduate course and have a GPA of 5 or greater. If students are enrolled in the Master of Public Health or Master of Health Science, students must have enrolled in, or completed 401076 'Introduction to Epidemiology' and 401077 'Introduction to Biostatistics'. Students must also have an approved Masters Dissertation Proposal before enrolling. Students must submit a proposal no longer than 3 pages comprising the following: 1. Proposed title 2. Background and rationale 3. Research objectives 4. Research plan (including study design, data sources, and analytic strategy) 5. Expected outcomes and benefits 6. Ethical implications 7. Budget and how research costs are to be met (if required) 8. Timeline 9. SSH Supervisor endorsement. Approval of the Dissertation Proposal must be provided by the relevant Director of Academic Programs to ensure that the project meets the expected scale and scope of a 40 credit point Dissertation.

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This unit requires students to complete a substantial piece of independent research, including research planning, study design, data collection and analysis, and interpretation. Dissertation projects are developed in consultation with staff who possess similar research interests and relevant research experience. Results and conclusions are expected to be of a publishable standard, and students may wish to submit their work for examination in a form suitable for publication in the peer-reviewed literature (with supplementary material as appropriate).

### 301139.1 Drug Biotransformation and Molecular Mechanisms of Toxicity

**Credit Points** 10 **Level** 7

#### Prerequisite

**301135.1** General Toxicology

#### Special Requirements

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.

### 200425.4 Economics

**Credit Points** 10 **Level** 7

#### Equivalent Units

51265 Economics (PG)

#### Special Requirements

Students must be enrolled in a postgraduate Business course.

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This unit presents a broad overview of economics and the way economic activity, institutions and regulations shape social and business outcomes, knowledge that is critical for any student in a business-related discipline. Students will reflect critically on the key economic processes, theories and ideas. We study the way economics defines growth and wellbeing and the economic theories of income determination and business cycles that shape macroeconomic policy. Students will form perspectives on globalisation, trade, colonisation and development and the causes of, and solutions to, inequalities between Indigenous and non-Indigenous Australians. In the microeconomic component of the unit, we study the way economics understands and models individuals and the consumer, production and firms, markets and market structures, the role of government intervention and regulation, environmental outcomes and policy to control processes of economic power.

### 300717.3 Egress and Risk Assessment

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

This unit assumes that the student has undertaken coursework in building construction, building surveying, engineering, science, architecture or a related area or has gained the equivalent knowledge by working in the construction industry in an appropriate capacity for at least four years.

#### Equivalent Units

BG810A - Fire Safety Systems 1 (Property)

#### Special Requirements

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.

### **200459.3 Emergency Management for Bushfire Prone Areas**

**Credit Points** 10 **Level** 7

#### **Assumed Knowledge**

Bushfire behaviour, planning, building and bushfire fighting units

#### **Special Requirements**

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.

### **401058.1 Endometriosis**

**Credit Points** 10 **Level** 7

#### **Special Requirements**

Students must be advanced trainees in Obstetrics and Gynaecology undertaking a Fellowship in Minimally Invasive Gynaecological Surgery at Blacktown Hospital or other accredited site. Students must be enrolled in 4690 Master of Surgery in Advanced Gynaecological Surgery

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Students undertaking this unit will have a detailed knowledge of endometriosis at commencement. This unit will extend their knowledge in theoretical and practical terms so that they have a solid foundation for developing their skills at minimally invasive surgery for endometriosis.

### **200850.1 Entrepreneurial Management Capabilities**

**Credit Points** 10 **Level** 7

#### **Special Requirements**

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.

### **401177.1 Environmental Epidemiology**

**Credit Points** 10 **Level** 7

#### **Prerequisite**

**401076.1** Introduction to Epidemiology

#### **Special Requirements**

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

#### **Special Requirements**

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.

### **301153.1 Environmental Forensics 2**

**Credit Points** 10 **Level** 7

#### **Prerequisite**

**301152.1** Environmental Forensics 1

#### **Special Requirements**

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.

### **400417.2 Epidemiology and Quantitative Methods**

**Credit Points** 10 **Level** 7

#### **Equivalent Units**

E7228 - Epidemiology and Quantitative Methods.

#### **Special Requirements**

Students must be enrolled in a postgraduate course.

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In this unit, students will study the fundamental concepts and principles of epidemiology and biostatistics and will be given the opportunities through exercise and tutorials to apply these concepts and principles to published public health literature. The unit is designed to give students the skills to interpret and critically evaluate public health literature and to equip the students with the skills for public health research. A range of research studies is examined, including studies of occurrence and risk factors for disease, and studies evaluating intervention treatments or programs. Both the epidemiological and statistical evidence for the findings are critically assessed.

### **401174.1 Epidemiology of Non-Communicable Diseases**

**Credit Points** 10 **Level** 7

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### **401092.1 Essentials of Best Practice in Midwifery**

**Credit Points** 10 **Level** 7

#### **Equivalent Units**

400082 - Essentials of Best Practice in Midwifery

#### **Special Requirements**

Students must be enrolled in 4697 Graduate Diploma in Midwifery and be a registered nurse employed in a participating NSW Health Local Health District facility in the position of a midwifery student. Students must have access to the internet and a computer.

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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

#### **Special Requirements**

Students must be enrolled in a postgraduate course.

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This unit equips students to explore ethical issues impacting on the conduct of research in the health setting. Students will critically explore ethical issues and their implications in health research, understand the process of gaining Human Research Ethics Approval for research, gain practical experience of developing an ethically sound research plan and application for human ethics approval.

### **401168.1 Evidence Based Health Care**

**Credit Points** 10 **Level** 7

#### **Assumed Knowledge**

A basic knowledge of research methods at undergraduate level plus basic nursing knowledge and clinical nursing experience.

#### **Equivalent Units**

400206 - Evidence Based Nursing

#### **Special Requirements**

Students must be enrolled in a postgraduate course

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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

#### **Special Requirements**

Must be enrolled in 4716 - Master of Chinese Medicine, 4675 - Master of Health Science (Traditional Chinese Medicine) or 4678 - Master of Health Science (Acupuncture)

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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.

##### Special Requirements

Students must be enrolled in a postgraduate course.

#### 301156.1 Explosives

**Credit Points** 10 **Level** 7

##### Special Requirements

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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.

#### 200821.2 Financial Reports for Decision Making

**Credit Points** 10 **Level** 7

##### Special Requirements

Students must be enrolled in a postgraduate Business or Information and Communications Technology course.

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.

#### 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)

##### Special Requirements

Students must be enrolled in the Master of Forensic Science, the Graduate Diploma in Forensic Science, or the Graduate Certificate in Forensic Science

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)

##### Special Requirements

Students must be enrolled in a postgraduate course.

This unit aims to develop a detailed knowledge of fire behaviour and dynamics in the built environment. Students will be able to understand fuels and combustion processes; the chemistry of combustion; flammability limits; ignition characteristics; and different types of flames and fire plumes. The content also covers the burning of liquids and solids; flammable vapour/air mixtures; extinction and extinguishment; flame spread mechanisms and modeling; flashover; fire resistance and fire severity; projection of flames from burning compartment openings; spread of fire from a compartment; production and measurement of smoke; and smoke movement.

#### 300710.3 Fire Engineering 2 (Fire Models)

**Credit Points** 10 **Level** 7

##### Assumed Knowledge

Physics, chemistry, engineering mathematics, building regulations, fire dynamics, building fire services.

##### Equivalent Units

PH703A - Fire Engineering 2 (Fire Models)

### Special Requirements

Students must be enrolled in a postgraduate course.

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This unit aims to develop an understanding of various types of computational tools used in engineering design of fire safety systems. The fundamentals of control volume, applications of conservation laws in modeling and the form of predictive equations are explained. The content includes evaluations of fire severity, fire resistance levels of various types of building structures and elements. Hand calculation equations, zone models and field models are covered. The limitations of the models in representing the real phenomena are also discussed.

### 300718.3 Fire Engineering Design and Assessment

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

Fire safety engineering principles, building regulations, fire dynamics, building fire services, fire modelling and human behaviour in fires.

#### Equivalent Units

BG811A - Fire Safety Systems (Life Safety)

#### Special Requirements

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

#### Special Requirements

Students must be enrolled in 3705 Master of Fire Safety Engineering, 3706 Graduate Diploma in Fire Safety Engineering or 3707 Graduate Certificate in Fire Safety Engineering.

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This unit aims to enhance students' knowledge of the fundamental principles of physics, including heat and mass transfer, fluid mechanism and thermodynamics, which govern the natural phenomena associated with fires. The unit also covers properties of materials, basic mathematics and numerical methods for students to become familiar with quantitative analysis of fire dynamics and structural response. In addition, students will learn probability and risk concepts in fire safety engineering. This is a bridging unit for students who are admitted to the Graduate Certificate and Graduate Diploma in Fire Safety Engineering without an engineering or physical science background. It lays the

foundation for further studies in fire safety engineering courses.

### 300948.2 Fire Technology and Engineering Principles

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

Undergraduate coursework in building surveying, planning or related areas or has gained the equivalent building construction knowledge by working in the construction industry in an appropriate capacity for at least four years.

#### Incompatible Units

300712 - Fire Technology Principles, 300714 - Fire Engineering Principles

#### Special Requirements

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.

### 301148.1 Forensic Analysis of DNA

**Credit Points** 10 **Level** 7

#### Special Requirements

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.

### 301147.1 Forensic Anthropology (PG)

**Credit Points** 10 **Level** 7

#### Special Requirements

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.

### 301145.1 Forensic Entomology

**Credit Points** 10 **Level** 7

#### Special Requirements

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

Forensic Entomology is the study of insect biology relevant to legal issues and its application to legal investigation and courtroom cases. Primarily, it is the study of insects associated with death and the recycling of organic material. It therefore isn't everybody's cup of tea and its practical application is certainly not for the faint hearted. The subject consequently suffers a poor reputation. It has an image of gruesome examinations and morbidity, but somehow, it still draws widespread fascination in the media and the public from a "casual onlooker" stance.

### 301144.1 Forensic Genetics

**Credit Points** 10 **Level** 7

#### Special Requirements

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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.

### 301146.1 Forensic Immunology

**Credit Points** 10 **Level** 7

#### Special Requirements

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

This unit will introduce students to the principles of immunology, immunological techniques, and their application to forensic analyses.

### 301133.1 Forensic Medicine I

**Credit Points** 10 **Level** 7

#### Special Requirements

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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.

### 301134.1 Forensic Medicine II

**Credit Points** 10 **Level** 7

#### Prerequisite

**301133.1** Forensic Medicine I

#### Special Requirements

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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.

### 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).

#### Special Requirements

Students must be enrolled in the Master of Forensic Science, the Graduate Diploma in Forensic Science, or the Graduate Certificate in Forensic Science.

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

### Special Requirements

Students must be enrolled in the Master of Forensic Science, the Graduate Diploma in Forensic Science, or the Graduate Certificate in Forensic Science

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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

#### Special Requirements

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.

### 301137.1 Forensic Toxicology II

**Credit Points** 10 **Level** 7

#### Prerequisite

**301136.1** Forensic Toxicology I

#### Special Requirements

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.

### 102300.1 Foundations of Media Arts Production (PG)

**Credit Points** 10 **Level** 7

#### Special Requirements

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

#### Special Requirements

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.

### 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](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

#### Special Requirements

Students must be enrolled in a postgraduate course or the Master of Research.

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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

#### Special Requirements

Students must be enrolled in a postgraduate masters course 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.

### 200848.2 Governance, Ethics and Social Entrepreneurship

**Credit Points** 10 **Level** 7

#### Special Requirements

Students must be enrolled in a postgraduate Business or Information and Communications Technology course.

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There is a growing need for communities and not-for-profit organisations to maintain a degree of organisational and social sustainability, without recourse to philanthropy, government, or other sources of aid. This unit adopts business and entrepreneurial principles to identify and explain the management of a social venture, with a view to ensuring organisational and social sustainability. The unit provides an understanding of governance and ethical practice to support social outcomes.

### 401059.1 Gynaecological Surgery Ergonomics

**Credit Points** 10 **Level** 7

#### Special Requirements

Students must be advanced trainees in Obstetrics and Gynaecology undertaking a Fellowship in Minimally Invasive Gynaecological Surgery at Blacktown Hospital or other accredited site. Students must be enrolled in 4690 M Surgery in Advanced Gynaecological Surgery

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Students undertaking this unit develop their knowledge in the practical aspects of the ergonomic use of laparoscopic equipment to reduce fatigue and improve patient safety.

### 400418.4 Health Advancement and Health Promotion

**Credit Points** 10 **Level** 7

#### Corequisite

**401076.1** Introduction to Epidemiology AND **401077.1** Introduction to Biostatistics

#### Special Requirements

Students must be enrolled in a postgraduate course.

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By investigating and addressing the multilevel determinants of health outcomes and inequalities, health promotion initiatives aim to improve the health and wellbeing of individuals and societies. In this unit, we will nurture an understanding of concepts and models of health promotion, evaluate the relative successes of recent and classic initiatives within Australia and overseas, and critically engage with debates concerned with the most appropriate strategies for tackling health inequalities in the context of major societal challenges (e.g. population ageing, urbanisation and climate change). Core competencies are nurtured (e.g. Plan and evaluate an intervention) to prepare students for practicing and further study in the field of health promotion.

### 400837.3 Health and Socio-political Issues in Aged Care

**Credit Points** 10 **Level** 7

#### Equivalent Units

400239 - Contemporary Issues in Aged Care

#### Special Requirements

Students must be enrolled in a postgraduate course.

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This unit examines health and socio political issues in aged care within a social capital framework. Social constructs and contexts of ageing are explored and issues of social and economic disadvantage are examined. Equity and access to health care services and the experiences of older people within these services are also highlighted. The role of health professionals and managers in actively engaging in health and social policy debate for ethically just care and services for older people is addressed.

### 400967.2 Health Economics and Comparative Health Systems

**Credit Points** 10 **Level** 7

#### Equivalent Units

E7232 - Economics and Organisation of Health Services, 400420 - Health Economics and Comparative Health Systems

#### Special Requirements

Students must be enrolled in a postgraduate course.

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The unit explores contemporary examples of the role of economics in the organisation, funding and provision of health services. Case examples include, Australia,



America, China, Hong Kong, Scandinavia, United Kingdom and India. Students use the principles of economics to assess funding of health with a focus on the interface between economics, ethics and equity in decision making. They also consider the tendency for health systems to be organised around economic principles in areas such as, contracting out, health insurance and pharmaceuticals. Students are encouraged to reflect on the challenges and future directions of their own health system in the context of the unit components.

### **400845.2 Health Financial Management**

**Credit Points** 10 **Level** 7

#### **Equivalent Units**

400420 - Health Economics and Comparative Health Systems, 400544 - Resources management in Aged Care

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This unit provides health leaders with an introduction to financial management in health and aged care settings as a basis for understanding the impact of leadership decision-making on financial outcomes and how financial decision-making impacts on clinical service delivery. Content includes an overview of health economics and economic evaluation, health care funding models, the principles, practices and tools for financial planning and management, basic accounting principles and financial terminology and using financial information and reporting for negotiating financial plans, tracking and evaluating financial performance and using financial information in decision-making within the clinical environment.

### **400210.2 Health Promotion and the Nurse**

**Credit Points** 10 **Level** 7

#### **Assumed Knowledge**

Students require fundamental knowledge and understanding of health and wellness concepts at the undergraduate level, with experience as a registered nurse in health care settings.

#### **Special Requirements**

Students must be enrolled in a postgraduate course.

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The challenge for nursing in terms of health promotion is to acknowledge the complex interrelatedness between a person's social and economic situation, their sense of power and control over their life and their physical, emotional and spiritual well-being, i.e. To understand that health is determined by the totality of a person's life circumstances and their inherent traits. This unit uses a social health perspective to examine evidence-based health promotion strategies that can be implemented in the context of nursing practice.

### **400836.2 Health Promotion: A Primary Health Care Approach**

**Credit Points** 10 **Level** 7

#### **Equivalent Units**

400413 - Context of Health Promotion

#### **Special Requirements**

Students must be enrolled in 4569 Master of Primary Health Care, 4694 Master of Primary Health Care, 4570 Graduate Diploma in Primary Health Care, 4695 Graduate Diploma in Primary Health Care, 4696 Graduate Certificate in Primary Health Care, 4722 Master of Nursing or 4723 Graduate Certificate in Nursing.

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An individual's personal characteristics and their family, social and community environments have complex interrelationship with their health and health behaviours. The challenge for health professionals is to understand this complexity and encourage the practice of health promotion within a primary health care framework so enabling people to achieve a sense of power and control over their lives. The unit explores the health of individuals and communities in the context of health promotion. Evidence-based health promotion strategies are examined using social health and ecological perspectives.

### **400844.2 Health Services and Facilities Planning**

**Credit Points** 10 **Level** 7

#### **Equivalent Units**

51109 - Strategic Analysis and Decision Making

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Planning occurs at all levels within all health organisations, government, non-government and in the private sector. There is a hierarchy in planning health services with some global overarching policy documents, national agreed priorities which affect corporate and regional plans as well as local services and projects. Planning focuses on future directions for health, is value based and resource allocation driven. The process of planning will be outlined including how to conduct a needs analysis, develop an evidence based approach, consult with stakeholders including the community, document an implementation plan and evaluate outcomes.

### **400843.2 Health Workforce Planning**

**Credit Points** 10 **Level** 7

#### **Equivalent Units**

46518 - Human Resources Management; 400545 - Workforce Planning and HR Issues in Aged Care, 200718 - Human Resource Management

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This is a flexible learning unit looking at Human Resources Management (HRM) as a strategic activity of health organisations especially as workforce shortages pose significant challenges to the health, welfare and aged care sectors. The workforce, with appropriate knowledge and expertise, is essential to the efficient and effective delivery of quality health services. Successful organisations shape their workforce to anticipate current and future business directions and goals. Workforce planning is a crucial element of this approach and its success.

## 400831.2 Healthy Families and Communities

**Credit Points** 10 **Level** 7

### Assumed Knowledge

Knowledge of Primary Health Care and families in Australian society at an undergraduate level, augmented with clinical experience at a general Registered Nurse or Registered Midwife level.

This unit explores the diversity and complexity of families and communities by examining differing cultural and social values, beliefs and practices relating to family structure, functioning and parenting practices. Students will be encouraged to reflect on their own cultural values and beliefs and how these influence practice when working with children and families. The unit will provide an introduction to community needs, assessment and principles of community development. Focusing on contemporary issues, content includes transition to parenthood, father inclusive practice, parenting children with disabilities, the changing role of grandparents and carers in Australian society and how neighbourhood and communities influence outcomes for children. This unit will provide students with foundational knowledge in identifying and supporting families with vulnerabilities and fostering resilience. Child protection issues will be addressed.

## 301047.1 ICT Practicum

**Credit Points** 0 **Level** 7

### Assumed Knowledge

A broad background knowledge in ICT discipline (i.e. equivalent to that obtained after completing two-three years of ICT/Computing)

### Prerequisite

**301005.1** Professional Practice and Communication

### Special Requirements

Students must be enrolled in 3698 Master of Information and Communications Technology (Advanced) or 3699 Master of Information and Communications Technology.

Students will undertake 120 hours full-time or part-time equivalent industry placements as a Work Integrated Learning (WIL) component required to be completed by students for successful completion of MICT and MICT-Advanced courses. Students will work in an external organisation in Australia or within a department/division within Western Sydney University carrying out tasks related to ICT. This provides students real-world experience ICT industry in Australia. Students can nominate an external organisation of their choice. Students with substantial post-qualification work experience in Australia maybe eligible for advanced standing for this unit.

## 301027.1 Industrial Experience (PG)

**Credit Points** 0 **Level** 7

### Special Requirements

Students must be enrolled in a postgraduate course

Students will undertake 12 weeks full time (37.5 hours per week) employment (or part time equivalent) to obtain relevant workplace experience in Engineering companies under the supervision of professional engineers in one company or more which will give the student a solid grounding in the Key Program of engineering which they have chosen to pursue.

## 400835.1 Infant Mental Health

**Credit Points** 10 **Level** 7

### Assumed Knowledge

Fundamental concepts of infant and child physical and mental health at undergraduate degree level.

### Equivalent Units

400209 - Introduction to Infant Mental Health - Child and Family Health Nursing

This unit will provide an overview of the issues that impact on infant mental health. Theoretical frameworks influencing the study of infant-parent relationships will be discussed. Nursing management strategies relating to infant mental health disorders and the promotion of positive parent-child relationships will be examined. These form a focal point of this unit.

## 301162.1 Information Security Management

**Credit Points** 10 **Level** 7

### Assumed Knowledge

Basic knowledge of computer system, computer security and basic programming skills.

### Special Requirements

Students must be enrolled in a postgraduate course.

## 200851.1 Innovation for New Markets

**Credit Points** 10 **Level** 7

### Special Requirements

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.

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.

### **200845.1 Innovation Through Digital Technology**

**Credit Points** 10 **Level** 7

#### **Special Requirements**

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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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.

### **200852.1 Innovation, Creativity and Foresight**

**Credit Points** 10 **Level** 7

#### **Special Requirements**

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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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 are introduced to ideation as an approach for developing ideas into possible innovative products, services, applications and processes. 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.

### **300515.3 Instrumentation and Measurement (PG)**

**Credit Points** 10 **Level** 7

#### **Special Requirements**

Students must be enrolled in a postgraduate course

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This unit covers all topics associated with the measurement and presentation of physical parameters. A wide range of transducers are presented in detail, while instrumentation includes a detailed analysis of a multitude of analogue and digital circuits used to amplify, transmit, and display electrical signals. The application of these modules in modern measurement equipment is presented in detail.

### **300769.3 Intelligent Agents for E-Markets**

**Credit Points** 10 **Level** 7

#### **Assumed Knowledge**

This unit requires basic skills in programming with either JAVA or C++ as the programming language.

#### **Incompatible Units**

300245 Intelligent Agents; 300385 Automated Negotiation and e-trading

#### **Special Requirements**

Students must be enrolled in a postgraduate course.

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This unit introduces the intelligent agent technology and its applications to e-business. Students will learn the basic theories and algorithms that are used in intelligent agent design and electronic market development. A specific electronic market simulation system will be introduced. Students will have the chance to use this system to build up and practise their skills in developing automated trading agents and e-markets.

### **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.

#### **Special Requirements**

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.

### 301103.1 Interpreting Building Regulations (Residential Buildings)

**Credit Points** 10 **Level** 7

#### Special Requirements

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)

#### Special Requirements

Students must be enrolled in a postgraduate course.

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Most professions in the health sciences need to read and interpret statistics relating to individual health status, interpret health risks in communities, and engage in the evaluation of interventions, or impact of health policies or programs. Many public health practitioners are actively involved in surveillance, quantitative research and/or

evaluation. This unit provides students with the fundamental skills they need to analyse and interpret results from quantitative data collections. Content includes descriptive statistics, undertaking comparisons between groups, quantifying associations between variables, and statistical power. The unit is highly applied with the main focus being on interpretation and appraisal of statistical results and conducting analyses using statistical software.

### 401173.1 Introduction to Clinical Epidemiology

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

A background in health care is desirable

#### Special Requirements

Students must be enrolled in a postgraduate course.

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This unit aims to impart the principles of population based (epidemiologic) evidence to the understanding of variations in the outcome of illness and the reasons thereof (Clinical Epidemiology) thereby providing the framework for finding the best answers to "real world" questions about clinical practice and health care. Individuals taking this course (who usually have a health care background) acquire the basic skills required to understand the fundamental questions about the effectiveness of clinical therapies, usefulness of screening and diagnostic tools, prognosis and disease causation and gain the skills required of effective EBM practitioners.

### 401076.1 Introduction to Epidemiology

**Credit Points** 10 **Level** 7

#### Special Requirements

Students must be enrolled in a postgraduate course

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Epidemiology is the study of the distribution and determinants of disease and other health-related conditions in populations, and the application of this study to the control of health problems. Epidemiology encompasses a broad range of activities fundamental to the health sciences. The course is aimed to equip students with the ability to understand and critically appraise evidence from the health sciences used in the formulation of clinical interventions, assessments of population disease burden, and development of health policy. Students will be taught the fundamental concepts and principles of epidemiology and will be given the opportunities through exercises and tutorials to apply these concepts and principles to case studies from current epidemiological research and practice.

### 300260.2 IT Project Management

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

Understanding of systems analysis and design principles.

#### Special Requirements

Students must be enrolled in a postgraduate course.

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This unit is designed to provide students with an opportunity to learn and apply the knowledge, values and skills of consultancy, project management, and research by undertaking an 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.

### **401060.1 Laparoscopic Adnexal Surgery**

**Credit Points** 10 **Level** 7

#### **Special Requirements**

All students must be advanced trainees in Obstetrics and Gynaecology undertaking a Fellowship in Minimally Invasive Gynaecological Surgery at Blacktown Hospital or other accredited site. Students undertaking this unit must be enrolled in 4690 M Surgery in Advanced Gynaecological Surgery.

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Students undertaking this unit will have a detailed knowledge of open adnexal surgery at commencement. This unit will extend their knowledge in theoretical and practical terms so that they have a solid foundation for developing their skills in laparoscopic adnexal surgery.

### **400994.2 Laparoscopic Hysterectomy**

**Credit Points** 10 **Level** 7

#### **Special Requirements**

Students must be an advanced trainee in Obstetrics & Gynaecology undertaking a fellowship at Blacktown Hospital. Students undertaking this unit must be enrolled in 4690 Master Surgery in Advanced Gynaecological Surgery

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Students undertaking this unit will have a detailed knowledge of open hysterectomy at commencement. This unit will extend their knowledge in theoretical and practical terms so that they have a solid foundation for developing their skills in laparoscopic hysterectomy.

### **400414.2 Leadership and Change**

**Credit Points** 10 **Level** 7

#### **Equivalent Units**

NU806A - Processes of Change

#### **Special Requirements**

Students must be enrolled in 4569 Master of Primary Health Care or 4694 Master of Primary Health Care.

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Within the context of a society where change is ongoing, leadership is required in order to achieve optimum outcomes. Students in this unit will be encouraged to critically explore leadership styles, leadership and change theories, leadership in learning organisations and the community within a primary health care framework. This unit will enable students to assess both the internal and external environments of organisations, communities and

individuals as the need for change is identified, planned and implemented. The unit identifies the central strategies necessary for the development of leaders who are able to achieve sustainable change outcomes.

### **400778.2 Leadership and the Development of Organisational Capacity**

**Credit Points** 10 **Level** 7

#### **Assumed Knowledge**

Understanding of the principles of leadership and management theories and the attributes of effective leadership in a changing health care environment.

#### **Special Requirements**

Students must be enrolled in a postgraduate course.

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This unit examines the concept, form and structure of health care organisations. Organisational theory is explored and used to analyse a range of structures used in nursing and contemporary health care. Factors which influence organisational design, function and effectiveness are explored and discussed including: organisational behaviour, strategy, culture, power and politics, technology, sustainability and effectiveness. A major focus in the unit is planning for strategic organisational development to meet the challenges of rapid change and the need for performance improvements in patient care delivery. Concepts related to the strategic development of workforce capacity in the health care arena are considered through the application of a range of theories including the learning organisation. Leadership will be examined within the context of the unit with a particular emphasis on change management.

### **400777.3 Leadership for Quality and Safety in Health Care**

**Credit Points** 10 **Level** 7

#### **Equivalent Units**

400842 - Quality and Safety in Health Care

#### **Special Requirements**

Students must be enrolled in a postgraduate course. Students enrolled in course 4673 must have passed the following three units before they can enrol in this unit: 400220 - Contemporary Professional Practice in Mental Health Nursing and 400206 - Evidence-based Nursing and 400235 - Leadership in Clinical Practice.

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Increasingly clinical leaders, practitioners and health service managers are being held accountable for improving the quality and safety of patient care and for developing a culture of quality improvement within their teams. In this unit students learn about quality, patient safety and governance frameworks and strategies that they can employ within healthcare to improve system performance, patient safety and patient outcomes. The main approaches used to address quality of care and patient safety are examined and their applications critiqued. Students will explore leadership issues for developing systematic, coherent quality improvement frameworks and quality



initiatives that can be applied within their own sphere of practice.

### 400235.2 Leadership in Clinical Practice

**Credit Points** 10 **Level** 7

#### Special Requirements

Students must be enrolled in a postgraduate course.

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We are all confronted with the challenge of leadership, regardless of nursing speciality, role or status. Encompassed within leadership is knowledge of self, relevant theories, skills and political awareness which are developed through higher education. By developing leadership skills and knowledge we can influence better outcomes for our patients/clients and create more positive working environments. In the unit, Leadership in Clinical Practice, nursing leadership arising from expert clinical practice is explored as a general notion rather than as one arising from within any particular clinical speciality. Content includes theories, concepts and styles of leadership, the development of leadership potential, motivation, coaching, and mentorship, concepts of power, authority and empowerment and discussion of contemporary leadership issues. Assignments provide students with the opportunity to apply new knowledge about leadership to their practice, whether they be in management, education or clinical roles.

### 300597.4 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 and oral presentation.

#### Equivalent Units

300189 - Master of Engineering Specialist Reading, 200327 - Built Environment Project, 200328 - Built Environment Research Project

#### Special Requirements

Students must be enrolled in a postgraduate course

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This unit is a problem based project unit. Students are expected to conduct self studies under supervision by academic staff. Students will identify research topics in consultation with supervisors, carry out literature survey in one of the fields of engineering, construction, information technology or data science. Students will be required to define research objectives and scope, establish research methodology and prepare a research plan.

### 300598.5 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

#### Special Requirements

Students must be enrolled in a postgraduate course

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This unit is a continuation of unit Master Project 1 and is a problem based project unit. Students are expected to conduct self studies under supervision by academic staff and deliver the final outcomes of the research topics that are proposed in Master Project 1. Students will employ the identified methodologies to carry out the research plans and 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.

### 301125.1 Masters Thesis

**Credit Points** 80 **Level** 7

#### Assumed Knowledge

Prior knowledge deemed appropriate by the project supervisor.

#### Prerequisite

**301005.1** Professional Practice and Communication AND **301004.1** Research Preparation in Post Graduate Studies AND **800166.1** Research Design 1: Theories of Enquiry AND **800169.1** Research Design 2: Practices of Research

#### Special Requirements

Students must be enrolled in the Master of Information and Communications Technology (Research) to enrol in this unit.

### 301018.1 Mechanical System Design

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

The students are assumed to have a good understanding on basics of mechanical design, fundamentals and advanced topics in mechanics of materials, fundamentals on fluid mechanics and heat transfer and thermal dynamics.

#### Special Requirements

Students must be enrolled in the Master of Engineering, Graduate Certificate in Engineering or Bachelor of Research Studies / Master of Research. Essential Equipment: Engineering analysis package – SolidWorks available in SCEM computer labs.

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This unit advances students understanding on product design and development of machine components and assemblies using systems engineering approaches. The unit covers a review on the design of main components of

machinery to ensure their functionality, strength and durability, which includes drive components - gears, shafts, belt drives, and bearings, and structural components - welds and treaded fasteners. The machine assembly design is delivered based on systems engineering. Academic skills on research and communication are ensured to be achieved through conducting systems engineering approached-based mechanical system design projects.

### **300600.3 Mechatronic System Design**

**Credit Points** 10 **Level** 7

#### **Assumed Knowledge**

Equivalent Bachelor of Engineering degree.

#### **Incompatible Units**

300512 - Servo Systems Design (PG), 300191 - Mechatronic System Design

#### **Special Requirements**

Students must be enrolled in a postgraduate course

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This unit will advance the skills of mechanics, mechanical systems and automation in the practice of engineering design as applied to mechatronic devices and systems. The ability to perform detailed design analysis of machine elements as well as control systems as applicable to manufacturing and process machinery is the intended outcome of undertaking this unit and project-based tasks will form part of the learning process and team work experience.

### **101423.3 Media Project Proposal**

**Credit Points** 20 **Level** 7

#### **Assumed Knowledge**

Broad understanding of convergent media forms and processes.

#### **Special Requirements**

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

#### **Special Requirements**

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.

### **401135.1 Mental and Neurological Disorders and Chinese Medicine**

**Credit Points** 10 **Level** 7

#### **Incompatible Units**

400688 - Mental Health in Chinese Medicine, 400689 - Neurological Disorders in Chinese Medicine

#### **Special Requirements**

Students must be enrolled in either 4716 – Master of Chinese Medicine, 4717 – Graduate Diploma of Chinese Medicine, 4675 – Masters of Health Science (Traditional Chinese Medicine), or 4678 – Master of Health Science (Acupuncture)

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This unit will enable practitioners to extend their understanding of Chinese Medicine management of a range of mental health conditions and neurological disorders. The clinical focus is on the Chinese Medicine diagnosis and management of these disorders and integration with the orthodox biomedical approaches to disorders that are common in the community. Chinese Medicine treatment will focus on acupuncture and Chinese herbal medicine treatments. Students will learn to apply Chinese Medicine's unique understanding and contribution to the rehabilitation of those who have suffered from disabling psychological/psychiatric and neurological diseases.

### **400217.3 Mental Health Assessment and Application**

**Credit Points** 10 **Level** 7

#### **Assumed Knowledge**

Students must be registered nurses with a basic knowledge of mental health, mental illness, and assessment processes at undergraduate level, augmented with experience in mental health settings.

#### **Special Requirements**

Students must be enrolled in 4654 Graduate Diploma in Nursing (Mental Health), 4719 Master of Mental Health Nursing, 4720 Graduate Diploma in Mental Health Nursing or 4721 Graduate Certificate in Mental Health Nursing.

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Assessment is an essential component of the nurse/client interaction in mental health/psychiatric nursing. Effective nursing depends on comprehensive, accurate, systematic and continuous data collection. This assists the nurse and client to accurately identify and document critical client issues and formulate management strategies. This unit prepares the student in the area of mental health assessment, in identifying the factors that affect individual/family mental health and applying this knowledge to decisions about appropriate interventions.

### 400773.4 Mental Health for Communities

Credit Points 10 Level 7

#### Assumed Knowledge

Students are expected to have knowledge and understanding of mental health / mental health concerns and be able to relate it to clinical nursing practice for individuals and their families.

#### Special Requirements

Students must be enrolled 4694 Master of Primary Health Care, 4695 Graduate Diploma in Primary Health Care, 4673 Master of Mental Health Nursing (Nurse Practitioner), 4654 Graduate Diploma in Nursing (Mental Health), 4719 Master of Mental Health Nursing, 4720 Graduate Diploma in Mental Health Nursing or 4735 Master of Nursing (Professional Studies).

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Evolving diversity and changes within societies mean that what are understood as adaptive and maladaptive lifestyles, behaviours and attitudes towards mental illness and traditional healing approaches will vary greatly. This unit presents an outline of the themes and topics central to discussions of mental health and illness within a community. It examines the influences of stereotype and stigma, environment, culture, adaptive ability and support systems for psychological well-being while considering approaches which focus on and promote resilience, attachment, a sense of belonging and empowerment. Contemporary mental health and illness issues relating to selected vulnerable groups will be explored.

### 400218.2 Mental Health Nursing Practice 1

Credit Points 10 Level 7

#### Assumed Knowledge

Students are required to be registered nurses with basic knowledge of mental health, mental illness, and assessment processes, augmented with experience in mental health settings.

#### Special Requirements

Students must be enrolled in the Graduate Diploma in Nursing (Mental Health), 4719 Master of Mental Health Nursing, 4720 Graduate Diploma in Mental Health Nursing or 4721 Graduate Certificate in Mental Health Nursing.

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This unit will assist the student to develop a comprehensive understanding of the nurse-client relationship in mental health nursing, presenting this relationship in its multiple contexts, (e.g., the interpersonal, cultural and socio-political), in order to appreciate factors influencing this relationship and the way it might be 'lived out' in practice. The unit assists students to understand: (1) the nurse-client relationship and its development; (2) the nature of the relationship between the client and nurse; (3) how skilled nurses use this relationship to assist their clients; and (4) how the type of relationship the nurse develops with the client frequently determines the quality of work they do together.

### 400219.3 Mental Health Nursing Practice 2

Credit Points 10 Level 7

#### Assumed Knowledge

Students must be registered nurses with a basic knowledge of mental health, mental illness, and assessment processes, augmented with experience in mental health settings.

#### Special Requirements

Students must be enrolled in 4654 Graduate Diploma Nursing (Mental Health), 4719 Master of Mental Health Nursing, 4720 Graduate Diploma in Mental Health Nursing or 4721 Graduate Certificate in Mental Health Nursing.

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This unit is designed to challenge the student to consider evidence-based practice in mental health nursing. Nurses are required to be accountable for their clinical practice and to be able to argue the evidence for specific nursing interventions. Students undertake critical analysis of evidence-based practice in mental health nursing as a concept, a means of accountability, as a means of defining nursing knowledge. Students will apply evidence-based practice concepts to specific psychiatric disorders and problems.

### 300398.2 Methods of Researching

Credit Points 10 Level 7

#### Assumed Knowledge

Library research skills, project design and management, an area of science.

#### Equivalent Units

ASC411 - Research Methodology & Experimental Design, SC808A - Research Methodology & Experimental Design, NU808A - Introduction to Research PHC, EH838A - Research methods: science in context, 300277 - Professional Praxis - Inquiring in Context

#### Special Requirements

Students must be enrolled in a postgraduate course.

### 401087.1 Midwifery as a Profession

Credit Points 10 Level 7

#### Special Requirements

Students must be enrolled in 4697 Graduate Diploma in Midwifery and be a registered nurse employed in a participating NSW Health Local Health District facility in the position of a midwifery student. Students must have access to the internet and a computer.

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This unit introduces students to the profession of midwifery. It explores: the meaning of birth; the historical and social contexts of birth; and the role of the midwife through the continuum, from early beginnings to its current legal and professional standing. Within a legal and ethical framework, the Australian College of Midwives (ACM) philosophy and role of the midwife will be explored. Students will also be

required to discuss and critically analyse current models of midwifery care.

### 401090.1 Midwifery Practice 1

**Credit Points** 10 **Level** 7

#### Corequisite

**401089.1** Childbirth in the Australian Context

#### Special Requirements

Students must be enrolled in 4697 Graduate Diploma in Midwifery and be a registered nurse employed in a participating NSW Health Local Health District facility in the position of a midwifery student. Students must have access to the internet and a computer. Students are required to wear closed shoes (covering heels and instep). Students who do not wear the correct clothing will be excluded from clinical practicum sessions.

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In this unit students will develop skills for the provision of midwifery care across the childbirth continuum through working with women in a continuity of care model and also practice experience in designated maternity practice areas. Using a woman-centred, primary health care model, students will commence recruitment and follow 10 women throughout their pregnancy, labour, birth and for up to six weeks post birth; and under supervision will provide midwifery care to these women. The unit commences with a one week intensive workshop, to expose the students to an elementary level of understanding and application of midwifery care in the antenatal clinic, antenatal ward, birth unit, postnatal ward and special care nursery in preparation for their employment. Concepts introduced during this intensive week will be covered with more complexity during future subsequent weekly workshops.

### 401093.1 Midwifery Practice 2

**Credit Points** 10 **Level** 7

#### Prerequisite

**401089.1** Childbirth in the Australian Context AND **401090.1** Midwifery Practice 1

#### Corequisite

**401091.1** Complex Care

#### Special Requirements

Students must be enrolled in 4697 Graduate Diploma in Midwifery and be a registered nurse employed in a participating NSW Health Local Health District facility in the position of a midwifery student. Students must have access to the internet and a computer. Students are required to wear closed shoes (covering heels and instep). Students who do not wear the correct clothing will be excluded from clinical practicum sessions.

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During this unit students will continue to gain practical experience in designated clinical areas and follow their 10 women throughout pregnancy, labour, birth and the postnatal period in a continuity of care model. They will strengthen their skills in undertaking psychosocial assessment, effectively engaging women in services, facilitating groups and working in collaboration with other

professionals to support women. In addition, they will work with women with complex health issues. This unit provides students with the knowledge to collaborate with all health professionals and includes assessing procedures for managing obstetric emergencies; transferring women or newborns with complex health issues; and assessing referral pathways.

### 401094.1 Midwifery Practice 3

**Credit Points** 20 **Level** 7

#### Prerequisite

**401093.1** Midwifery Practice 2

#### Special Requirements

Students must be enrolled in 4697 Graduate Diploma in Midwifery and be a registered nurse employed in a participating NSW Health Local Health District facility in the position of a midwifery student. Students must have access to the internet and a computer. Students are required to wear closed shoes (covering heels and instep). Students who do not wear the correct clothing will be excluded from clinical practicum sessions.

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In this unit students will consolidate their knowledge and midwifery skills in preparation for their role as a midwife. They will continue to practice in designated clinical areas and follow through their 10 continuity of care experiences. Students will have completed a professional portfolio and reflected on how they can identify and plan for personal professional development and leadership as midwives, including the professional development needs of others. Students will be assessed across the four competency domains of legal and professional practice, midwifery knowledge and practice, midwifery as primary health care and reflective and ethical practice.

### 301043.2 Mobile Computing

**Credit Points** 10 **Level** 7

#### Special Requirements

Successful completion of 40 credit points and the following pre-requisites 301038 - Programming Proficiency and 300977 - Systems Analysis and Database Management Systems or for 2761 - Master of Business Administration Information and Communications Technology specialisation: 300693 - Web Technologies.

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This unit teaches technologies and programming languages for developing applications on common mobile platforms, such as Android and iOS. Students will learn skills for developing programs on the above platforms, along with in-class sample applications that highlight platform - specific implementation details.

### 101743.2 Mobile Media

**Credit Points** 10 **Level** 7

#### Special Requirements

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.

### 301066.1 Multilayer Switching

**Credit Points** 20 **Level** 7

#### Special Requirements

Students must be enrolled in the online courses Master of Advanced Networking or any other postgraduate 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. Students must have access to the internet and appropriate hardware and software for online study.

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.

#### Special Requirements

Students must be enrolled in a postgraduate course.

This unit covers advanced concepts and technologies used in emerging multimedia communication systems. Theory, practice and standards for IT professionals endeavouring to build data compression systems for multimedia applications are emphasised.

### 401134.1 Musculoskeletal Health in Chinese Medicine

**Credit Points** 10 **Level** 7

#### Incompatible Units

400574 - Musculoskeletal Health in Chinese Medicine 1,  
400575 - Musculoskeletal Health in Chinese Medicine 2

#### Special Requirements

Students must be enrolled in 4716 Master of Chinese Medicine ( or Master of Health Science (Traditional Chinese Medicine) and/or Master of Health Science (Acupuncture). First Aid certificate.

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

#### Special Requirements

Students must be enrolled in 3741 Master of Forensic Science, 3742 Graduate Diploma in Forensic Science or 3743 Graduate Certificate in Forensic Science.

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.

### 300255.2 Network Management

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

Familiar with the fundamentals of computer networking and data communications. In particular, a good understanding of the OSI model, the internet protocol suite and current internet technologies.

#### Equivalent Units

54947 - Management of Networked Systems

#### Special Requirements

Students must be enrolled in a postgraduate course.

The performance of any modern organization is heavily dependent on their networked systems and how these systems are managed. The increasing demand for ICT services and the huge growth of the Internet have resulted in large heterogeneous networks. This unit addresses the issues relevant to management of such networks and the services that run on them. It covers the principles and current practices pertinent to integrated management of networks, systems, and services. The unit helps the students to understand relevant protocols, standards, and standards organizations. It also introduces them to trends and key research areas in management of networked systems.



### 301068.1 Network Security

**Credit Points** 20 **Level** 7

#### Prerequisite

**301065.1** Advanced Routing AND **301066.1** Multilayer Switching

#### Special Requirements

Students must be enrolled in the online courses Master of Advanced Networking or any other postgraduate 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. 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

#### Special Requirements

Students must be enrolled in a postgraduate course.

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Computer networking is probably among the fastest growing technologies of our times. The Internet interconnects millions of computers providing many new exciting opportunities and challenges. The Internet and the World Wide Web have provided the communication and infrastructure needed for global collaboration and information exchange. As a result of the rapid growth of networked systems and the diverse applications that run on them, success in many professions depends on a sound understanding of the technologies underlying these systems and applications. This unit explores these issues further and provides the students with such an understanding. It covers the principles and current practices pertinent to computer networking and communications. It describes some of the important technologies and devices used in modern networks for information distribution and data sharing. The unit helps the students to understand

important relevant models, protocols and standards in networking and internetworking.

### 200849.1 New Venture Finance

**Credit Points** 10 **Level** 7

#### Special Requirements

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.

### 300682.2 Occupational and Environmental Hygiene

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

Basic understanding of chemistry, physics, biology, workplace hazards OHS law.

#### Equivalent Units

300394 - Occupational Environment: Assessment and Control, EH845A - Hazardous Chemical Assessment, EH840A - Ergonomics

#### Special Requirements

Field visits may limit the numbers in any particular activity for OHS reasons. Students will need appropriate PPE such as safety shoes, laboratory coats and safety glasses.

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### 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

#### Special Requirements

Students must be enrolled in 3602 - Master of Environmental Management, 3605 - Master of Occupational Safety, Health and Environmental

Management, 3606 - Graduate Diploma in Occupational Safety, Health and Environmental Management, 3607 - Graduate Certificate in Occupational Safety, Health and Environmental Management, 3647 - Master of Science, 3648 - Graduate Diploma in Science (exit only), 3649 - Graduate Certificate in Science, 4651 - Master of Health Science, 4652 - Graduate Diploma in Health Science or 4653 - Graduate Certificate in Health Science, 4681 - Master of Health (Research Studies)/PhD, 4698 - Master of Health Science, 4700 - Graduate Diploma in Health Science, 4701 - Graduate Certificate in Health Science, 4702 - Master of Public Health, 4704 - Graduate Diploma in Public Health

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This unit focuses on the practice of occupational health within national and international frameworks. It explores issues such as the physical, social and mental impact of the occupational environment on health and includes the human body's response to occupational health hazard exposure through toxicological and epidemiological principles. Strategies for the management of occupational health are examined, together with methods of monitoring and evaluating occupational health programs.

### 301067.1 Optimising Networks

**Credit Points** 20 **Level** 7

#### Prerequisite

**301065.1** Advanced Routing AND **301066.1** Multilayer Switching

#### Special Requirements

Students must be enrolled in the online courses Master of Advanced Networking or any other postgraduate 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. 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

#### Special Requirements

Students must be enrolled in a postgraduate course

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This unit will provide an understanding of the key elements of the National Health Reform in Australia. There will be a strong focus on the management of delivering public hospital services under the evolving reform. The unit will cover the establishment of service level agreements, outlining the purchaser – provider model and exploring its impacts and deliverables. The unit will also explore how performance should be monitored and reported. Finally, it will examine the clinical and business governance models that facilitate implementation of such major reforms. Links between quality and performance will also be explored.

### 400832.1 Partnership in Practice

**Credit Points** 10 **Level** 7

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Health services across Australia have demonstrated commitment to the roll-out of Family Partnership Training to all health professionals who support families with young children. This unit will provide an overview of the Family Partnership Model through completion of the core Family Partnership Training (30 hours face to face interactive, experiential learning). Students will examine the theoretical framework underlying the model which emphasises the need for highly skilled professional communication to develop supportive and effective relationships with families. Facilitating groups for parents is a key skill of the child and family health professional. In this unit participants will also study how adults learn, and the key skills in understanding and promoting the group process. Working in partnership extends to other professional and agencies, enabling students to develop skills in professional collaboration.

### 401061.1 Pelvic Anatomy

**Credit Points** 10 **Level** 7

#### Special Requirements

Students must be advanced trainees in Obstetrics and Gynaecology undertaking a Fellowship in Minimally Invasive Gynaecological Surgery at Blacktown Hospital or other accredited site. Students must be enrolled in 4690 Master of Surgery in Advanced Gynaecological Surgery

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Students undertaking this unit will have a detailed knowledge of pelvic anatomy at commencement. This unit will extend their knowledge in theoretical and practical terms so that they have a solid foundation for developing their skills at minimally invasive surgery.

### 401062.1 Pelvic Floor Function and Dysfunction

**Credit Points** 10 **Level** 7

#### Special Requirements

Students must be advanced trainees in Obstetrics and Gynaecology undertaking a Fellowship in Minimally Invasive Gynaecological Surgery at Blacktown Hospital or other accredited site. Students must be enrolled in 4690 Master of Surgery in Advanced Gynaecological Surgery

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Students undertaking this unit will have a good working knowledge of the pelvic floor at commencement. This unit

will extend their knowledge in theoretical and practical terms so that they can safely recognise pelvic floor anatomy through the vaginal, abdominal and laparoscopic approach.

### **400833.3 Perinatal Mental Health**

**Credit Points** 10 **Level** 7

#### **Assumed Knowledge**

Fundamental concepts of mental health at undergraduate degree level.

#### **Special Requirements**

Students must be enrolled in 4682 Master of Child and Family Health (Karitane) or 4713 Master of Child and Family Health (Karitane). Patient safety issues are associated. Students will need to have completed the NSW Health Special Requirements for clinical practicum attendance. At present these include: Prohibited Employment Declaration prior to 1 June 2010 or a Working with Children Check Student Declaration after 1 June 2010; Criminal Record Check form prior to 1 June 2010 or a Student Undertaking Form after 1 June 2010 and have applied for a National Police Certificate; Adult Health Immunisation Schedule. NSW Ministry of Health may request additional documents according to policy changes. Students outside NSW are expected to meet any other state requirements for clinical placement.

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This unit enables students to explore the complex issues related to parental mental health including; antenatal and postnatal depression and anxiety, substance misuse and domestic violence. Through examination of these complex issues, students will gain knowledge of the risk factors that influence outcomes for infants, children and families. Strategies to promote emotional well being, positive parent child relationships and social support for these families is an essential learning component supported by the the concepts of targeted and specialist intervention, and early intervention. The unit has a 40 hr clinical placement in a secondary or tertiary level child and family health service where in students will gain skills in psychosocial screening for risk factors, vulnerabilities and protective factors and related developmental issues in children.

### **300196.3 Personal Communication Systems**

**Credit Points** 10 **Level** 7

#### **Assumed Knowledge**

Communications Systems. Digital Communications.

#### **Special Requirements**

Students must be enrolled in a postgraduate course

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This unit covers the design fundamentals of cellular systems, including frequency reuse, channel assignments, radio wave propagation in mobile environments, modulation techniques, coding techniques, spread spectrum and multiple access. It includes topics from emerging wireless technologies, and third-generation mobile communication systems and standards.

### **400774.2 Perspectives on Nursing**

**Credit Points** 10 **Level** 7

#### **Equivalent Units**

400234 - Nursing Knowledge: Concepts, Models and Theories

#### **Special Requirements**

Students must be enrolled in a postgraduate course.

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This unit addresses the origins and development of nursing knowledge. A major focus is the development and progress of the discipline of nursing. It includes an in-depth exploration of the history and philosophy of nursing science, including epistemology and strategies for theory generation in nursing. The impact of borrowed perspectives on research, theory and practice in the discipline of nursing is also explored. The unit also addresses the development of theoretical perspectives in nursing, including areas of controversy in the discipline. Numerous perspectives on the relationship between nursing theory, research and practice are considered. A major emphasis in the unit is development of knowledge and understanding of the link between nursing theory, research, practice and related issues.

### **301143.1 Pharmaceutical Analysis**

**Credit Points** 10 **Level** 7

#### **Special Requirements**

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.

### **300708.4 Planning and Development Control**

**Credit Points** 10 **Level** 7

#### **Equivalent Units**

101634 - Planning and Environmental Regulation

#### **Special Requirements**

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 three tiers of Government process on development control, and the legal, political and technical issues relevant to impact assessments. Particular attention will be paid to the role of the private sector in developing controls, self-regulation and appeal processes. Planning in both the micro and macro environments is examined in the context of sustainability, community resources and its strategic

effects on the recycling of existing land and non-renewable natural resources.

### 101634.2 Planning and Environmental Regulation

**Credit Points** 10 **Level** 7

#### Equivalent Units

300708 - Planning and Development Control

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This unit provides students with an understanding of the planning process from both a State government and Local Government perspective. The unit will cover concepts related to the planning process, focusing on development control and regulation issues, planning instruments and development applications. It will also address the areas of planning and environment law, with specific reference to the legal framework that regulates planning and development in NSW.

### 301049.1 Planning for Bushfire Prone Areas

**Credit Points** 10 **Level** 7

#### Prerequisite

**300708.3** Planning and Development Control

#### Special Requirements

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

#### Equivalent Units

HC815A - Policy, Power and Politics in Health Care Provision

#### Special Requirements

Students must be enrolled in a postgraduate course. Students enrolled in course 4673 must have passed the following three units before they can enrol in this unit - 400220 Contemporary Professional Practice in Mental Health Nursing and 400206 Evidence-based Nursing and 400235 Leadership in Clinical Practice.

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This unit enables students to gain an understanding of the political and social constructions that underpin health care services such as social determinants of health. It also provides students with the opportunity to explore and critically analyse issues related to the development, implementation and outcomes of health and aged care policies.

### 400995.2 Port Entry

**Credit Points** 10 **Level** 7

#### Special Requirements

Students must be advanced trainees in Obstetrics & Gynaecology undertaking a fellowship at Blacktown Hospital. Students must be enrolled in 4690 Master of Surgery in Advanced Gynaecological Surgery

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This unit will extend their knowledge in theoretical and practical terms so that they can safely and effectively establish ports for laparoscopic surgery.

### 400996.1 Power Modalities

**Credit Points** 10 **Level** 7

#### Special Requirements

Students must be advanced trainees in Obstetrics & Gynaecology undertaking a fellowship at Blacktown Hospital. Students must be enrolled in 4690 Master of Surgery in Advanced Gynaecological Surgery

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This unit will facilitate the acquisition of knowledge both practical and theoretical for students to enable them to safely use power modalities in laparoscopic Gynecological surgery.

### 300197.3 Power System Planning and Economics

**Credit Points** 10 **Level** 7

#### Special Requirements

Students must be enrolled in a postgraduate course

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This unit covers planning techniques for energy and electrical power systems. It also covers the economics of various options and reliability of electrical power systems.

### 401189.1 Practice of Cardiac Sonography 1

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

Applicants for this course must have successfully completed an undergraduate degree in natural and physical sciences or health.

#### Corequisite

**401185.1** Principles of Cardiac Sonography 1

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This unit introduces students to the practice of cardiac sonography. Students 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

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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

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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).

### **301117.1 Predictive Analytics**

**Credit Points** 10 **Level** 7

**Prerequisite**

**301114.1** The Nature of Data

**Special Requirements**

Students must be enrolled in a postgraduate course. Access to a computer is required.

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Predictive analytics is the use of data, statistical algorithms and machine-learning techniques to model outcomes based on past data. Industry can use predictive analytics to help optimize their operations and performance. This unit introduces statistical ideas and machine learning techniques covering the predictive analytics process. Some example problems that will be discussed include identifying trends, understanding customers and predicting behaviour, fraud detection, and identifying credit risk.

### **400412.3 Primary Health Care and its Applications**

**Credit Points** 10 **Level** 7

**Special Requirements**

Students must be enrolled in the 4569 Master of Primary Health Care, 4570 Graduate Diploma in Primary Health Care, 4694 Master of Primary Health Care, 4695 Graduate Diploma in Primary Health Care, 4696 Graduate Certificate in Primary Health Care, 4722 Master of Nursing, 4723 Graduate Diploma in Nursing or 4735 Master of Nursing (Professional Studies).

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This unit explores the impact and relevance of Primary Health Care in its context as a World Health Organization (WHO) strategy for achieving "Health for All". It examines the ways in which Primary Health Care, along with other significant WHO initiatives, provides a framework for the organisation of just and humane health care systems and provides an opportunity for detailed discussion of the complex factors that impact on the health status of populations. The integration of associated theoretical concepts will enable an understanding of the complex dimensions of health and well-being to evolve and then to inform health care practices and the planning of programs that can lead to sustainable health within a primary health care framework.

### **401185.1 Principles of Cardiac Sonography 1**

**Credit Points** 10 **Level** 7

**Assumed Knowledge**

Applicants for this course must have successfully completed an undergraduate degree in natural and physical sciences or health.

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This unit introduces students to two key areas of knowledge for cardiac sonographers: 1) cardiac anatomy and physiology, and 2) ultrasound physics. Students will learn about the normal and abnormal anatomy and physiology of the human heart. They will also learn about



the essential physical principles that underpin ultrasound imaging. This unit provides an essential basis for future study in the Graduate Diploma in Cardiac Sonography.

### 401186.1 Principles of Cardiac Sonography 2

**Credit Points** 10 **Level** 7

#### Prerequisite

**401185.1** Principles of Cardiac Sonography 1

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

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

This unit aims to assure that students have gained adequate knowledge and skills to be able to practice competently and confidently as cardiac sonographers. Students will learn about more complex heart dis-ease and how to detect them by echocardiography and other imaging modalities. They will further 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 re-search resources will provide an important means for facilitating learning in this unit.

### 301104.1 Professional Practice and Building Law

**Credit Points** 10 **Level** 7

#### Special Requirements

Only students enrolled in the Master of 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 can enrol in this unit. Students enrolled in the Master of Building Surveying or Graduate Diploma in Building Surveying must have completed 40 credit points prior to enrolling in this unit.

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.

### 301005.1 Professional Practice and Communication

**Credit Points** 10 **Level** 7

#### Special Requirements

Students must be enrolled in a postgraduate course

This unit introduces some of the concepts, standards and techniques associated with the current professional practice for engineering and information technology students. These include the various elements of engineering and IT practice, basic knowledge of law of contracts and legal responsibility, competence in verbal communication and presentations and in reading and writing reports, and an understanding of ethical considerations.

### 400850.2 Professional Topic

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

An interest in research

#### Special Requirements

Student must have permission from Unit Coordinator to enrol in the unit. Students must be enrolled in a Postgraduate Degree. Students undertaking a NSW Health work placement must be fully compliant to undertake a work placement (Have a National Police Check, A Working With Children Check and be fully vaccinated).

This unit is designed to allow high achieving students who have an interest in potentially undertaking higher degree

research after graduation the opportunity to comprehensively explore a relevant topic of interest to them.

### 301113.1 Programming for Data Science

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

Familiarity with computer software programs such as Excel.

#### Special Requirements

Students must be enrolled in a postgraduate course. 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

#### Special Requirements

Students must be enrolled in a postgraduate course. Students require 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.

### 400858.3 Psychopharmacology for Advanced Practice Mental Health Nurses

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

Students are expected to have a working knowledge of mental health assessment and treatment procedures, including basic pharmacological principles and knowledge of drugs used for mental illnesses and disorders.

#### Special Requirements

Students must be enrolled in 4673 Master of Mental Health Nursing (Nurse Practitioner) or 4719 Master of Mental Health Nursing. Students enrolled in 4673 Master of Mental Health Nursing (Nurse Practitioner) must pass the following units to be able to 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. Students in 4673 must be working in mental health services at an advanced clinical practice level and must nominate a primary supervisor/mentor/assessor a clinical support group.

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This unit examines pharmacological principles including functional neuroanatomy review, pharmacokinetic principles, pharmacodynamic principles, and neuropharmacology. Students examine a number of psychotropic drugs: antipsychotic, mood stabilisers, complementary medicines, drugs of abuse/misuse, antidepressant, anxiolytic and hypnotic drugs in relation to targeted symptoms, titration, side-effects, and monitoring of clients from across the lifespan. Decision-making in psychopharmacology is explored. The importance of appropriate collaborative processes between the nurse practitioner, clients across the lifespan and their families in medication management is addressed.

### 400416.2 Public Health, Policy and Society

**Credit Points** 10 **Level** 7

#### Equivalent Units

E7229 - Health Management: Policy and Society, E7305 - Health Management Policy and Society

#### Special Requirements

Students must be enrolled in a postgraduate course.

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This unit examines the nature of public health and develops a systemic understanding of various public health policy frameworks and issues. The unit provides the context and history for understanding public health approaches, explores the cultural and social dimensions of health and illness and the economic and political environment in which health policies and strategies are developed and implemented. The unit advocates a view of health that includes an implicit recognition of the physical, social and economic environment, affirms the importance of social justice and equity in health care, and emphasises the importance of inter-sectoral collaboration.

### 800166.1 Research Design 1: Theories of Enquiry

**Credit Points** 10 **Level** 5

#### Special Requirements

Students must be enrolled in 8083: Bachelor of Research Studies/Master of Research

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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

#### Special Requirements

This unit must be completed in the final semester of coursework before commencement of the research year. Students must be enrolled in 8083 Bachelor of Research Studies/Master of Research.

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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.

### 401078.1 Research Project

**Credit Points** 20 **Level** 7

#### Assumed Knowledge

It is assumed that the student would have completed core (or foundational) units associated with their Masters program, ideally in relevant research design and practice related disciplines. It is also assumed that students would meet a minimum GPA of 5 before being able to enrol in this unit.

#### Corequisite

**401076.1** Introduction to Epidemiology AND **401077.1** Introduction to Biostatistics

#### Special Requirements

Students must be enrolled in a post-graduate course and have a GPA of 5 or greater. If students are enrolled in the Master of Public Health or Master of Health Science, students must have enrolled in, or completed, 401076 - Introduction to Epidemiology and 401077 - Introduction to Biostatistics. Students must also have an approved Research Project Proposal before enrolling. Students must submit a proposal no longer than 3 pages comprising the following: 1. Proposed title 2. Background and rationale 3. Research objectives 4. Research plan (including study design, data sources, and analytic strategy) 5. Expected outcomes and benefits 6. Ethical implications 7. Budget and how research costs are to be met (if required) 8. Timeline 9. SSH Supervisor endorsement. Approval of the Research Project Proposal must be provided by the relevant Director of Academic Programs to ensure that the project meets the expected scale and scope of a 20 credit point Research Project.

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This unit requires students to complete a substantial piece of independent research, including research planning, study design, data collection and analysis, and interpretation. Research projects are developed in consultation with staff who possess similar research interests and relevant research experience. Results and conclusions are expected to be of a publishable standard, and students may wish to submit their work for examination in a form suitable for publication in the peer-reviewed literature (with supplementary material as appropriate).

### 301055.1 Research Project A

**Credit Points** 20 **Level** 7

#### Assumed Knowledge

Knowledge in one of the fields in Computing, ICT, Mathematics or Networking.

#### Incompatible Units

300597 Master Project 1, 300598 Master Project 2

#### Special Requirements

Students must be enrolled in the online courses: Master of Computing, Master of Mathematics, Master of Science in Systems Thinking in Practice or Master of Advanced Networking. Pre-requisites: For 3713 Master of Computing - 301051 Systems Project Management AND 301054 Thinking Strategically: Systems Tools for Managing Change AND 301052 Digital Forensics AND 301063 Software Development. For 3716 Master of Mathematics - 301057 Calculus of Variations and Advanced Calculus AND 301058 Non-linear Ordinary Differential Equations AND 301059 Applied Complex Variables AND 301060 Approximation Theory. For 3719 Master of Science in Systems Thinking in Practice - 301051 Systems Project Management AND 301054 Thinking Strategically: Systems Tools for Managing Change AND 301063 Software Development AND 301064 Managing Systemic Change: Inquiry, Action and Interaction. For 3722 Master of Advanced Networking - 301065 Advanced Routing AND 301066 Multilayer Switching AND 301067 Optimising Networks AND 301068 Network Security. All students require access to the internet and appropriate hardware and software for online study.

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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 mathematics, computer networking and information technology. Students will be required to define research objectives and scope, establish research methodology and prepare a research plan.

### **401138.1 Research Project and Thesis**

**Credit Points** 60 **Level** 7

#### **Assumed Knowledge**

It is assumed that the student would have completed core (or foundational) units associated with their Masters program, ideally in relevant research design and practice related disciplines.

#### **Prerequisite**

**401129.1** Evidence Based Practice in Chinese Medicine AND **401076.1** Introduction to Epidemiology OR **401077.1** Introduction to Biostatistics

#### **Corequisite**

**401080.1** Research Protocol Design and Practice

#### **Special Requirements**

Students must be enrolled in a post-graduate course and have a GPA of 5.0 or greater. Students transferring from the current teaching-out course 4675 Master of Health Science (Traditional Chinese Medicine) and 4678 Master of Health Science (Acupuncture) may be eligible to entry into the unit with 401080 Research Protocol Design and Practice as corequisite subject to individual assessments.

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This unit requires students to complete a substantial piece of independent research in Chinese Medicine including research planning, study design, data collection, analysis and interpretation. Dissertation projects are developed in consultation with staff who possess similar research interests and relevant research experience. Students may wish to submit their work for examination in a form suitable for publication in the peer-reviewed literature (with supplementary material as appropriate).

### **301056.1 Research Project B**

**Credit Points** 20 **Level** 7

#### **Assumed Knowledge**

Knowledge in one of the fields in Computing, ICT, Mathematics or Networking.

#### **Prerequisite**

**301055.1** Research Project A

#### **Incompatible Units**

300597 Master Project 1, 300598 Master Project 2

#### **Special Requirements**

Students must be enrolled in the online courses: Master of Computing, Master of Science in Systems Thinking in Practice, Master of Mathematics, Master of Advanced Networking or be enrolled in any other postgraduate

Western Sydney program where this unit can be taken as an unspecified elective and where there are sufficient credit points available in the study program.

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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 self-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 one of the fields of mathematics, computer networking and information technology. In this unit, students will acquire research related problem solving skills.

### **401084.2 Research Project in Health Care**

**Credit Points** 20 **Level** 7

#### **Special Requirements**

Students must be enrolled in a postgraduate course and have successfully completed 60 credit points at Level 7. 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. Students must have 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.

### **401080.1 Research Protocol Design and Practice**

**Credit Points** 10 **Level** 7

#### **Corequisite**

**401076.1** Introduction to Epidemiology AND **401077.1** Introduction to Biostatistics AND **401129.1** Evidence Based Practice in Chinese Medicine

#### **Equivalent Units**

300398 - Methods of Researching

#### **Special Requirements**

Students must be enrolled in a postgraduate course. Students must complete any two of the following co-requisite units: 401076 - Introduction to Epidemiology, 401077 - Introduction to Biostatistics, 401129 - Evidence-Based Practice in Chinese Medicine. Students must have



use of a personal computer for access to web-based resources and for preparing assignments.

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In this unit postgraduate students develop a proposal for a research study in an area of interest, drawing upon their knowledge and experiences from other units in their program of study. Students learn how to apply research methods to a variety of research situations and questions; to understand how research questions are developed and answered empirically through suitable choice of research methodology, design and method; and how research findings are validated and communicated. The unit is taught through self-paced, self-directed learning. Class contact is three days of workshops, in the first and second half of the session.

### 101962.1 Researching Convergent Media

**Credit Points** 10 **Level** 7

#### Equivalent Units

101793 - Methods and Case Studies in Convergent Media

#### Special Requirements

Students must be enrolled in a postgraduate course.

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The contemporary media 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. The aim of this unit is to provide students with an historical, geopolitical and theoretical introduction to convergent media theory and practice/s. Using current media theory, design theories, and research methodologies, students will select, analyse and contextualise case studies. The case studies and topics covered vary from semester to semester and can include iTV, digital games, community media, digital arts, activist networks, social media and cross platform projects.

### 300677.2 Safety and Risk Management

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

Recognition that OHS procedures are legislatively required at the workplace and the ability to recognise the need to protect workers from harm at the workplace. Knowledge of the basics of OHS legislation in the students' jurisdiction.

#### Equivalent Units

300390 - Safety Management. 300395 - Risk Assessment

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This unit provides a critical insight into the theory and practice of managing safety and health at the workplace with a dual focus on risk management and safety management. Students have the opportunity to develop a safety systems approach concentrating on hazard identification, risk assessment and devising control measures incorporating safety management principles. Safety culture and its influence on OHS practice is also detailed. In addition, the unit addresses the legal underpinning of OHS requirements at the workplace.

Labour market change and the role of government, unions and employer organisations are also examined. Global perspectives on OHS from various jurisdictions ranging from the USA, Hong Kong and China are also scrutinised.

### 401085.1 Scholarship for Practice Change in Health Care

**Credit Points** 10 **Level** 7

#### Equivalent Units

400807 - Transforming Nursing Practice

#### Special Requirements

Students must be enrolled in a postgraduate course, and have successfully completed 60 credit points at Level 7. Students must have access to the internet and a computer.

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The transformation of practice in healthcare is facilitated when information about creative and innovative practice change and development is documented, disseminated and critiqued through professional channels such as peer reviewed journals, conference papers, discussion papers or project reports. In this unit students will be provided with an opportunity to produce a scholarly piece of work that will disseminate information about transforming practice and improving patient care. The unit aims to enhance scholarly communication skills, provide a vehicle for demonstrating leadership by informing the health professions of innovative solutions for practice change.

### 300742.2 Science and Health Research Project PG

**Credit Points** 20 **Level** 7

#### Corequisite

**300398.2** Methods of Researching OR **300411.3** Research Methodology and Experimental Design

#### Equivalent Units

EH850A - Masters research project, HT801A - Research Project 811, HT805A - Research Project 821, HT807A - Research Project 831, HT807B - Research Project - Science, HT808A - Research Project 841, 300687 - Science Research Project PG

#### Special Requirements

Enrolment in this unit by non-Master of Science or Master of Health Science students requires permission from the Director, Academic Program.

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This unit develops critical and analytical skills by undertaking and completing a research project in an area of relevance. The project is carried out on an individual basis. Research projects are offered in consultation with staff who possess research interests and experience in relevant areas.

### 301041.1 Service Oriented Architecture

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

Student must have knowledge related to Web Technology, Object Oriented programming languages.

**Equivalent Units**

300437 - XML and Web Services

**Special Requirements**

Students must be enrolled in a postgraduate course.

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This unit aims to provide students with a deep understanding of SOA, service-orientation paradigm, business processes and Web services as an implementation technology. The course provides students with hands-on experience with implementations of various web service technologies, such as Java XML and Web Service APIs. Students will learn understand the role of as SOA in different contexts and their practical implications in terms of engineering software systems and automating business processes. Students will master various SOA technologies used for web services and applications.

**301116.1 Social Media Intelligence**

**Credit Points** 10 **Level** 7

**Assumed Knowledge**

Basic algebra and computing skills.

**Special Requirements**

Students must be enrolled in a postgraduate course. Access to a computer is required.

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Social Media Intelligence presents the theory and practice of extracting and analysing information from social media networks. The aims are to identify properties of social networks, and to make predictions about future events. Topics included will cover areas such as Graph theory, Game theory and Network dynamics and we will identify how these can be used to model and extract information from Facebook and Twitter.

**300770.3 Software Testing and Automation**

**Credit Points** 10 **Level** 7

**Assumed Knowledge**

Knowledge about: Software Development Life Cycle; Programming knowledge in one of the Object Oriented programming language for e.g. Java, C++; Scripting Language such as Java Script

**Special Requirements**

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

**Special Requirements**

Students must be enrolled in a postgraduate course

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This unit offers several streams of practical applications in engineering and industrial design software. Students get to choose a software application stream depending on their key program. Lectures and assignments are delivered online and are enhanced by face to face contact with stream coordinators. Emphasis is placed on teaching students practical software applications skills relevant to industry needs.

**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.

**Special Requirements**

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) before undertaking this unit.

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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

**Special Requirements**

Students must be enrolled in a postgraduate course.

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Statistical ideas are integral to the conceptual basis of epidemiology and provide the tools needed to interpret epidemiological information and conduct epidemiological studies. Most professions in the health sciences need to be able to read and interpret statistics relating to individual and population health status and health risks, and to identify appropriate statistical methods to evaluate interventions, health policies and programs. Many public health practitioners are actively involved in surveillance, quantitative research and/or evaluation. This unit aims to support students to reach a level of proficiency in the selection of appropriate statistical methods to address specific research questions with a given dataset, conduct the selected analysis, interpret the results appropriately and draw valid and insightful conclusions about the research question.

### 200841.2 Strategic Business Management

**Credit Points** 10 **Level** 7

#### Special Requirements

Students must be enrolled in a postgraduate Business or Information and Communications Technology course.

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This unit critically examines strategic management processes in various business, industry and economic contexts. Students actively participate in experiential learning focussing on strategic leadership, visioning, situation analysis, objective setting and evaluation. Students apply current strategy models and theories to solving industry-specific problems and scenarios. The teaching methods are application-oriented using a variety of engaging technologies and media which simulate real-world strategic problem-solving.

### 400241.3 Supporting Aged Communities

**Credit Points** 10 **Level** 7

#### Special Requirements

Students must be enrolled in a postgraduate course

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The unit aims to analyse the dynamic systems of aged care services, to challenge orthodox strategies for reform in aged care and to identify ways in which primary health care can be employed as a process of change in aged care services.

### 400838.1 Supporting Individuals and Communities in Crisis

**Credit Points** 10 **Level** 7

#### Special Requirements

Students must be enrolled in 4569 Master of Primary Health Care, 4694 Master of Primary Health Care, 4570 Graduate Diploma in Primary Health Care or 4695 Graduate Diploma in Primary Health Care.

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The planning, development and implementation of primary health care initiatives rest largely on the capacity of health care workers to develop and engage in partnerships with a diverse range of consumers, health care workers and

organisations. In this unit students will critically examine the complexities inherent in developing and sustaining effective and active partnerships with individuals and groups in primary health care contexts. The interpersonal, cultural and socio-political issues that shape communication and the development of partnerships will be examined. Current approaches used to plan for and respond to crises, emergencies and disasters at an individual, organisational and community level will also be explored.

### 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.

#### Special Requirements

Students must be enrolled in the 4750 Masters of Medicine (Pathology) postgraduate course. 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. If a student fails to meet these requirements they will not be allowed to enrol in the unit.

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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.

#### Special Requirements

The student must be enrolled in the 4750 Masters of Medicine (Pathology) postgraduate course. 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. If a student fails to meet these requirements they will not be allowed to enrol in the unit. Computer with internet access 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.

#### **Special Requirements**

The student must be enrolled in the 4750 Masters of Medicine (Pathology) postgraduate course. 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. If a student fails to meet these requirements they will not be allowed to enrol in the unit. Computer with internet access 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-specialities 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.

#### **Special Requirements**

The student must be enrolled in the 4750 Masters of Medicine (Pathology) postgraduate course. 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. If a student fails to meet these requirements they will not be allowed to enrol in the unit. 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 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

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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-specialities 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

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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-specialities 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

#### **Assumed Knowledge**

Prior qualification in above field. Health or mental health professionals, nurses, social workers, psychologists, medical practitioners.

#### **Special Requirements**

Students must be enrolled in a postgraduate course

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This unit will address the psychosocial and mental health aspects of disaster management, the systems of disaster response and how these aspects are relevant across the all-



hazard approach to Prevention, Preparation, Response and Recovery (PPRR). It will address the current evidence and understanding of this field, leadership and management across the PPRR spectrum and the public health, clinical and other coordination in terms of impact and outcome. It will deal with Australian requirements and systems as well as international and Australian roles in the region. It will utilise on-line resources, a specifically developed handbook, assignment and desktop exercises.

### 300939.2 Sustainability and Risk Engineering (PG)

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

Engineering problem solving skills.

#### Special Requirements

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

#### Special Requirements

Students must be enrolled in a postgraduate course

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This unit seeks to teach the essential tools available to achieve environmental sustainability in various engineering, construction, industrial design professional settings. The unit will particularly focus on the application of the tools and exploration of Australian regulatory and sustainable development practices.

### 301142.1 Synthetic Medicinal Chemistry

**Credit Points** 10 **Level** 7

#### Special Requirements

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.

### 300977.2 Systems Analysis and Database Management Systems

**Credit Points** 10 **Level** 7

#### Special Requirements

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

#### Special Requirements

Students must be enrolled in a postgraduate course.

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This unit is concerned with the protection of information in computing systems and when transferred over networks. It addresses techniques for securing networking applications and their security arrangements. Students gain an understanding of the fundamentals of the provision of security in networks and systems, as well as an appreciation of some of the problems that arise in devising practical security solutions.

### 200820.2 The Contemporary Business Environment

**Credit Points** 10 **Level** 7

#### Equivalent Units

200783 - The Business Environment

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This unit provides foundational knowledge that is needed to appreciate the complexities involved in managing businesses in an uncertain and complex global setting. Emphasis is placed on the influence of the economic, socio-cultural, political, and technological environments on a

business and the need for businesses to adopt a global perspective in formulating and implementing strategic interventions for enhancing competitiveness.

### 301114.1 The Nature of Data

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

Undergraduate degree with some statistical content (1 unit) is useful.

#### Special Requirements

Students must be enrolled in a postgraduate course. 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.

### 301138.1 Toxic Substances

**Credit Points** 10 **Level** 7

#### Prerequisite

**301135.1** General Toxicology

#### Special Requirements

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.

### 301150.1 Toxicology of Chemical Weapons

**Credit Points** 10 **Level** 7

#### Special Requirements

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.

### 200825.2 Understanding Contemporary Organisations

**Credit Points** 10 **Level** 7

#### Special Requirements

Students must be enrolled in a postgraduate Business or Information and Communications Technology course.

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Understanding Contemporary Organisations is an integrative unit designed to introduce students, who have not previously undertaken a business study program, to the theoretical perspectives offered by the disciplines of business and organisation studies. Students will be engaged in a series of learning activities to develop competency in understanding how people construct organisational structures, processes and practices. Specifically, processes and practices relating to organisational design and structure, marketing, finances and people management will be introduced.

### 301112.1 Visualisation

**Credit Points** 10 **Level** 7

#### Assumed Knowledge

Familiarity with computer software programs, such as Microsoft Office.

#### Incompatible Units

301109 Visual Analytics

#### Special Requirements

Students must be enrolled in a postgraduate course. Access to a computer is required.

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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.

#### **Special Requirements**

This is a specialised unit in a specialist discipline in the Master of Engineering program. Students must be enrolled in a postgraduate Engineering program undertaking a Civil Engineering specialisation.

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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

#### **Special Requirements**

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

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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.

#### **Special Requirements**

Students must be enrolled in a postgraduate or honours course offered by the School of Computing, Engineering & Mathematics.

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Wireless technologies are amongst the most exciting and rapidly growing areas in computing and information technology. They implement applications that profoundly impact our personal way of communication, as well as how business in a variety of industries and organisations are conducted. This unit goes into details of such issues. It discusses wireless networking technologies and their related applications. The main features of wireless and mobile communication systems and the networked services that are based on these systems are also presented. The unit provides students with an in-depth understanding of relevant protocols, the emerging standards and standard organisations. The students are also introduced to some of the relevant current key research issues of the field.

### **401132.1 Women's Health in Chinese Medicine**

**Credit Points** 10 **Level** 7

#### **Incompatible Units**

400570 - Women's Health in Chinese Medicine 1 AND  
400571 - Women's Health in Chinese Medicine 2

#### **Special Requirements**

Students must be enrolled in 4716 Master of Chinese Medicine (or Master of Health Science (Traditional Chinese Medicine) and/or Master of Health Science (Acupuncture)

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This unit will enable practitioners to extend their understanding of Chinese Medicine management of a range of women's health conditions. The clinical focus of this unit is on the integration of Chinese Medicine and conventional therapies in the treatment of disorders of the menstrual cycle, obstetric disorders, fertility, menopause and breast disease.

### **300692.2 Workflow Management Systems**

**Credit Points** 10 **Level** 7

#### **Assumed Knowledge**

Students are expected to have basic knowledge of computer systems, software architectures, web technologies such as HTML and XML and client server architectures. In addition, students are anticipated to have studied information systems development concepts or worked in systems development projects. Further, students should have a high interest and capability to read and comprehend the research literature, and explore interdisciplinary research.

#### **Special Requirements**

Students must be enrolled in postgraduate course and must have successfully completed 60 credit points at Level 7.

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This unit covers the both theoretical and practical concepts in the rapidly growing area of Workflow Management System (WfMS). In the current global economy, organisations are investing significantly into WfMS to gain a competitive advantage. With such investments comes the need for an ICT workforce that can use, manage, and create WfMS. Therefore, the objective of this unit is to provide skills and knowledge in: process modelling techniques, system architecture of WfMS, service oriented paradigm in WfMS, workflow analysis, workflow performance analysis, making workflow systems adaptive, process intelligence, and evaluation of ROI of workflow automation efforts.

### **401086.1 Writing for Publication**

**Credit Points** 10 **Level** 7

#### **Special Requirements**

Students must be enrolled in postgraduate course and must have successfully completed 60 credit points at Level 7.

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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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