College of Health and Science

Electronic Postgraduate Handbook 2008

University of Western Sydney

ISSN 1444-7770

Units, courses, and arrangements for courses as stated in the postgraduate and undergraduate electronic handbooks (and any other University of Western Sydney (UWS) publications or announcements) are an expression of intent only and are not to be taken as a firm offer or undertaking.

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

Information contained in this electronic handbook is correct at the time of production (April 2008), unless otherwise noted.

CRICOS Provider Code 00917K

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

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

About the College of Health and Science Electronic Postgraduate Handbook

Sessions and dates

There are two main sessions in 2008: Autumn and Spring. Weeks shown in the dateline refer to the session weeks for these main sessions.

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

Unit outlines

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

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

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

Unit not listed?

If the unit you are looking for is not in the alphabetical units section, consult your course coordinator for details or check the unit search web page for updated details on all units offered in 2008 at: http://handbook.uws.edu.au/hbook/UNIT_SEARCH.ASP.

Prerequisites, co-requisites and assumed knowledge

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

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

Academic credit

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

How to use this electronic book

The first part of this electronic book contains information about current College of Health and Science postgraduate courses. The next part contains details on current postgraduate units in these 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.

Tip:
The electronic handbook contains links. These can be accessed by clicking on the text highlighted in blue. To return to the previous screen, click on the green arrow at the bottom of the page.

Check website for updates

The latest information on all College of Health and Science postgraduate courses and units can be found on the UWS website at: http://www.uws.edu.au/health_science/chs/courses

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

Contents

COLLEGE OF HEALTH AND SCIENCE

Master of Acupuncture

4611.2

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

Study Mode

The Master of Acupuncture will require two years part-time study (80 credit points). An early exit route of one and a half years part-time Graduate Diploma of Acupuncture (60 credit points) and a one year part-time Graduate Certificate of Acupuncture (40 credit points) will also be available. If student demand is sufficient, the Master of Acupuncture may be offered full-time. Please contact the Head of Program or the School of Biomedical and Health Sciences for further details.

Location

Campus	Attendance	Mode
Bankstown Campus	Part Time	Internal

Academic Credit and Advanced Standing

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

Admission

Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on admission to postgraduate courses is available on the Local Admissions section of the UWS website.

The Master of Acupuncture will be open to qualified acupuncturists and practitioners of Traditional Chinese Medicine (acupuncture and herbal medicine) and other health practitioners holding a recognised undergraduate qualification (a minimum of a three year diploma that meets the requirements set out under the Australian Qualification Guidelines). Those applicants not holding an undergraduate qualification in acupuncture or Traditional Chinese Medicine (including overseas-trained or apprenticeship) will need to have gained recognition by an Australian professional association representing acupuncturists. In some cases additional relevant preliminary studies may be required.

Course Structure

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

Recommended Sequence

Part-time

Year 1

H1

400567.1 Evidence Based Practice in Chinese Medicine 1
Specialist Unit 1

H2

400568.1 Evidence Based Practice in Chinese Medicine 2
Specialist Unit 2

Year 2

H1

Specialist Unit 3
Specialist Unit 4

H2

Specialist Unit 5
Specialist Unit 6

Full-time (available from 2007 onwards subject to demand)

Year 1

H1

400567.1 Evidence Based Practice in Chinese Medicine 1
Specialist Unit 1
Specialist Unit 2
Specialist Unit 3

H2

400568.1 Evidence Based Practice in Chinese Medicine 2
Specialist Unit 4
Specialist Unit 5
Specialist Unit 6

Specialist Units

Students will be required to complete six specialist units from the following pool. Please note: Not all units will be offered each year - refer to the published timetable to confirm availability.

400570.2 Women's Health in Chinese Medicine 1
400572.1 Dermatology in Chinese Medicine 1
400574.1 Musculoskeletal Health in Chinese Medicine 1
400575.1 Musculoskeletal Health in Chinese Medicine 2
400578.1 Advanced Acupuncture
400687.1 Chinese Medicine Specialities 1
400688.1 Mental Health in Chinese Medicine
400689.1 Neurological Disorders in Chinese Medicine

Graduate Diploma Exit Point

Students may exit with a Graduate Diploma in Acupuncture upon the successful completion of the following six units (60 credit points);

400567.1 Evidence Based Practice in Chinese Medicine 1
400568.1 Evidence Based Practice in Chinese Medicine 2

And four Specialist units (40 credit points)

Graduate Certificate Exit Point

Students may exit with a Graduate Certificate in Acupuncture upon the successful completion of any four units (40 credit points) from the Master of Acupuncture Award.

Graduate Diploma in Acupuncture

4612.2

Exit point only. Refer to Master of Acupuncture, course code 4611.

Graduate Certificate in Acupuncture

4613.2

Exit point only. Refer to Master of Acupuncture, course code 4611.

Master of Aged Care Management

4602.1

The course prepares graduates to function as managers in aged care with the competencies required of graduates at a Masters level. There is a strong emphasis on developing managerial and theoretical skills that are based on the best available evidence. Graduates from this course are expected to be employed in a diverse range of contexts within the aged care industry. Whilst their skills and attributes will be readily transferable to non aged care management roles, they will be ideally suited to roles within the organizations and associations that deal with the older population due to the idiosyncrasies of management in that environment.

Study Mode

One year full-time or two years part-time in Distance Education mode. Non-compulsory on-campus workshops may also be provided.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	External
Campbelltown Campus	Part Time	External

Academic Credit and Advanced Standing

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

Accreditation

Graduates of the course will be eligible for professional accreditation with The Australian College of Health Service Executives (ACHSE) at the Associate or Associate Fellow status, depending on prior relevant work experience.

Admission

Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on admission to postgraduate courses is available on the Local Admissions section of the UWS website.

Applications for admission to the Master of Aged Care Management will be assessed on the following requirements:

- Possession of at least a bachelor degree from a recognized university (or equivalent) in health, aged care, management or business studies; and
- Have three years relevant industry experience (for example access to management meetings, decisions and planning documents, or equivalent)

Course Structure

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

Recommended Sequence

Full-time

Year 1

Autumn session
400414.1 Leadership and Change
400238.1 Policy, Power and Politics in Health Care Provision
400546.1 Quality Management in Aged Care
400544.1 Resources Management in Aged Care

Spring session
400547.1 Aged Care Management Development Project
400239.1 Contemporary Issues in Aged Care
400545.1 Workforce Planning and Human Resources Issues in Aged Care

Part-time

Year 1

Autumn session
400238.1 Policy, Power and Politics in Health Care Provision
400544.1 Resources Management in Aged Care

Spring session
400239.1 Contemporary Issues in Aged Care
400545.1 Workforce Planning and Human Resources Issues in Aged Care

Year 2

Autumn session
400414.1 Leadership and Change
400546.1 Quality Management in Aged Care

Spring session
400547.1 Aged Care Management Development Project

Graduate Diploma in Aged Care Management

4603.1

The course prepares graduates to function as managers in aged care with the competencies required of graduates at a Diploma level. There is a strong emphasis on developing managerial and theoretical skills that are based on the best available evidence. Graduates from this course are expected to be employed in a diverse range of contexts within the aged care industry. Whilst their skills and attributes will be readily transferable to non aged care management roles, they will be ideally suited to roles within the organizations and associations that deal with the older population due to the idiosyncrasies of management in that environment.

Study Mode

One year full-time or one and a half years part-time in Distance Education mode. Non-compulsory on-campus workshops may also be provided.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	External
Campbelltown Campus	Part Time	External

Academic Credit and Advanced Standing

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

Admission

Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on admission to postgraduate courses is available on the Local Admissions section of the UWS website

Admission to the Graduate Diploma in Aged Care Management will be assessed on the following requirements:

- Has met qualifying requirements for membership of a professional association;
- Have three years relevant industry experience (for example access to management meetings, decisions and planning documents, or equivalent)

Course Structure

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

Recommended Sequence

Full-time

Year 1

Autumn session
400414.1 Leadership and Change
400238.1 Policy, Power and Politics in Health Care Provision
400546.1 Quality Management in Aged Care
400544.1 Resources Management in Aged Care

Spring session
400239.1 Contemporary Issues in Aged Care

400545.1 Workforce Planning and Human Resources Issues in Aged Care

Part-time

Year 1

Autumn session
400238.1 Policy, Power and Politics in Health Care Provision
400544.1 Resources Management in Aged Care

Spring session
400239.1 Contemporary Issues in Aged Care
400545.1 Workforce Planning and Human Resources Issues in Aged Care

Year 2

Autumn session
400414.1 Leadership and Change
400546.1 Quality Management in Aged Care

Graduate Certificate in Aged Care Management

4604.1

The course prepares graduates to function as managers in aged care with the competencies required of graduates at a Graduate Certificate level. There is a strong emphasis on developing managerial and theoretical skills that are based on the best available evidence.

Study Mode
Six months full-time for appropriately qualified and academically experienced students, or one year part-time, in Distance Education mode. It is recommended that, in general, Graduate Certificate students study part-time over two semesters. Non-compulsory on-campus workshops may also be provided.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	External
Campbelltown Campus	Part Time	External

Academic Credit and Advanced Standing
Applications for advanced standing will be assessed in accordance with current UWS policy.

Admission
Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on admission to postgraduate courses is available on the Local Admissions section of the UWS website.

Admission to the Graduate Certificate in Aged Care Management will be assessed on the following requirement:

- Five years relevant industry experience (eg access to management meeting, decisions and planning documents or equiv) or;
- Certificate IV and three years relevant industry experience.

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

Recommended Sequence
To satisfy the requirements for the award of the Graduate Certificate in Aged Care Management, students must successfully complete four of the six units listed:

400238.1 Policy, Power and Politics in Health Care Provision
400544.1 Resources Management in Aged Care
400546.1 Quality Management in Aged Care
400414.1 Leadership and Change
400239.1 Contemporary Issues in Aged Care
400545.1 Workforce Planning and Human Resources Issues in Aged Care

Master of Applied Science (Biotechnology)

477T.1

Biotechnology is defined as the application of scientific and engineering principles to the processing of material by biological agents to provide goods and services. The requirements for biotechnologists are as diverse as the purposes for which microbial, plant and animal cells have been harnessed to produce food, medicines and chemicals useful to mankind. The program will encourage students to actively participate in the learning process. Opportunities for student planning and development of projects based upon a strong understanding of fundamental concepts and processes will be provided. Multidisciplinary knowledge and practical skills will be integrated to provide a hands-on problem solving approach during the whole course. Wherever possible real situations and industrial simulations will be used.

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

Location

Campus	Attendance	Mode
Hawkesbury Campus	Full Time	Internal
Hawkesbury Campus	Part Time	Internal

Admission

Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on postgraduate courses is available on the Postgraduate Admissions section of the UWS website. A relevant bachelors degree or appropriate equivalent qualifications is required.

Course Structure

To qualify for the degree of Master of Applied Science (Biotechnology), a candidate must successfully complete 80 credit points from the core and alternate units below.

Recommended Sequence

Core Units

MI810A.2 Principles and Practice of Biotechnology
Choose one of:
300411.2 Research Methodology and Experimental Design
EH838A.1 Research Methods: Science in Context
Choose one of:
HT805A.2 Research Project 821
HT807A.2 Research Project 831

Alternate Units

Choose up to 30 credit points from:
FS819A.1 Enzymology
MI807A.1 Water and Wastewater Microbiology
MI808A.1 Microbial Genetics
MI809A.1 Rapid Methods in Microbiology
SC810A.1 Special Issues in Science and Technology

Graduate Diploma of Applied Science (Biotechnology)

460Y.1

Admission

Not available for admission.

Exit point only from 477T Master of Applied Science (Biotechnology).

Course Structure

To qualify for the award of Graduate Diploma of Applied Science in the field of Biotechnology a candidate successfully complete 60 credit points taken from the Master of Applied Science (Biotechnology) schedule (course code 477T).

Master of Building Surveying

2558.1

The course has been designed to equip professionals with the qualifications necessary to be an Accredited Certifier, Building (Grade 1) and Principal Certifying Authority (Grade 1) under the NSW Building Surveyors and Allied Professions Accredited Scheme administered by the NSW Department of Infrastructure, Planning and Natural Resources (DIPNR). The course has been developed in consultation with practising Fire Safety Engineers and Building Surveyors to meet the needs of the Building Surveying industry. Graduates will be equipped with the knowledge to work in the private sector or in Local Government.

Study Mode

Two years part-time in flexible mode.

Location

Campus	Attendance	Mode
Blacktown Campus	Part Time	Internal
Blacktown Campus	Part Time	External

Accreditation

The course has been endorsed nationally by the Australian Institute of Building Surveyors and has been designed to equip professionals with the qualifications necessary to be an Accredited Certifier, Building (Grade 1) and Principal Certifying Authority (Grade 1) under the NSW Building Surveyors and Allied Professions Inc Accredited Scheme.

Admission

Applications to this course must be made through the Universities Admissions Centre (UAC). International applicants should contact UWS International for details on admission. Contact information for the International Office is available from the University's website.

Applicants must hold a degree, diploma in building surveying, or its equivalent in a relevant area of study, and relevant professional work experience in the field or a related profession. Candidates with an Associate Diploma in building, building surveying or related area must have at least four years relevant professional work experience in the field or a related profession. Applicants who do not meet these requirements will be considered for admission on the basis that they can demonstrate relevant professional work experience in

the field or a related profession and the ability to undertake postgraduate study.

Course Structure
To qualify for this award a candidate must successfully complete 80 credit points from the units below.

Students with an engineering background :
200327.1 Built Environment Project
BG706A.1 Fire and Building Regulations
BG812A.1 Building Studies
BG814A.1 Development Control
EN804A.1 Fire Engineering Principles
PE804A.1 Fire Technology Principles
PE806A.1 Building Fire Services

Students with architecture or building background:
200327.1 Built Environment Project
BG706A.1 Fire and Building Regulations
BG812A.1 Building Studies
BG814A.1 Development Control
EN804A.1 Fire Engineering Principles
EN808A.1 Building Engineering
PE806A.1 Building Fire Services
PE804A.1 Fire Technology Principles

Graduate Diploma in Building Surveying

358S.1

The course has been endorsed nationally by the Australian Institute of Building Surveyors and has been designed to equip professionals with the qualifications necessary to be an Accredited Certifier, Building (Grade 1) and Principal Certifying Authority (Grade 1) under the NSW Building Surveyors and Allied Professions Inc Accredited Scheme administered by the NSW Department of Infrastructure, Planning and Natural Resources (DIPNR). The course has been developed in consultation with practising Fire Safety Engineers and Building Surveyors to meet the needs of the Building Surveying industry. Graduates will be equipped with the knowledge to work in the private sector or in Government.

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

Location

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

Accreditation
The course has been endorsed nationally by the Australian Institute of Building Surveyors and has been designed to equip professionals with the qualifications necessary to be an Accredited Certifier, Building (Grade 1) and Principal Certifying Authority (Grade 1) under the NSW Building Surveyors and Allied Professions Inc Accredited Scheme.

Admission
Admission to this course is via UAC. International applicants should contact UWS International for details on admission. Contact information for the International Office is available from the University's website.

A degree or diploma in building, building surveying or its equivalent in a relevant area. Candidates with an Associate Diploma in a related area must have at least four years relevant professional work experience in the field or a related profession.

Course Structure
To qualify for the award of a Graduate Diploma in Building Surveying, a candidate must successfully complete 60 credit points from the units below. Candidates must select appropriate set of units dependent on previous study in consultation with the course coordinator.

Students with an engineering background:
BG706A.1 Fire and Building Regulations
BG812A.1 Building Studies
BG814A.1 Development Control
EN804A.1 Fire Engineering Principles
PE804A.1 Fire Technology Principles

Students with a building background:
BG706A.1 Fire and Building Regulations
BG812A.1 Building Studies
BG814A.1 Development Control
EN804A.1 Fire Engineering Principles
EN808A.1 Building Engineering
PE804A.1 Fire Technology Principles

Master of Computing (Networking)

3554.3

The course has been designed to prepare computing professionals and recent graduates for work in the computing and information technology industries at the highest levels. It will provide students opportunities with the knowledge, understanding and skills to enable them to deal effectively with advanced issues in computing and information technology in general, and in networking in particular. Graduates of the course

should possess a solid foundation that will allow them to maintain their skills as their specialised field evolves.

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

Location

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

Accreditation
The course currently has a Professional Level Accreditation with the Australian Computer Society (ACS).

Admission
Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on postgraduate courses is available on the Postgraduate Admissions section of the UWS website. A bachelor degree in computing discipline equivalent to an Australian degree; or a bachelor degree in any non-computing discipline equivalent to an Australian degree plus a graduate diploma in computing discipline; or a bachelor degree in any non-computing discipline equivalent to an Australian degree plus at least three years full time equivalent professional experience in computing or information technology. However, in some cases students with non-computing educational background may be required to undertake several units of additional study specifically in the areas of programming, systems analysis and design, database and data communication. Minimum qualifications do not necessarily guarantee an admission to the course.

Course Structure
Students must complete eight units (80 credit points) from the units listed below. A minimum of five units must be completed from Group 1 Networking specific units and up to three units from Group 2 General Computing units.

Group 1: Networking Specific units:
300140.1 Advanced Topics in Distributed Systems
300238.1 Computing Research Project A
300239.1 Computing Research Project B
300252.1 Advanced Topics in Networking
300253.1 Distributed Systems and Network Security
300255.1 Network Management
300256.1 Multimedia Communication Systems
300389.1 Wireless Networking
300445.1 Enterprise Web Application Development

Group 2: Generalist computing units:
300260.1 IT Project Management
300264.1 Web Site Management and Security
300437.1 XML and Web Services
300443.1 Web Engineering
300446.1 Human-Web Interaction

Graduate Diploma in Design for Bushfire Prone Areas

2714.1

This course will cater for the need to understand bushfires and their impact on the natural and built environment. The course will reflect the aims of the Federal Bushfire Cooperative Research Centre, which are "to develop a comprehensive and overarching understanding of the behaviour and danger of bushfires, given local differences in vegetation, land management and weather". Graduates will be able to assess and provide advice on developments in bushfire prone areas, develop alternative solutions based on their understanding of bushfires and their impact on the natural and built environment and provide advice with respect to bushfire fighting techniques and emergency management.

Study Mode
18 months part-time .

Location

Campus	Attendance	Mode
Blacktown Campus	Part Time	External

Academic Credit and Advanced Standing
Advanced standings will be granted in accordance with UWS rules.

Accreditation
Accreditation will be sought from the Australian Building Codes Board (ABCB), Australian Institute of Building Surveyors (AIBS), Rural Fire Service and Planning NSW.

Admission
Applications to this course must be made through the Universities Admissions Centre (UAC). International applicants should contact UWS International for details on admission. Contact information for the International Office is available from the University's website.

A degree or equivalent in a relevant area of study. Applicants who do not hold a degree may be admitted if they hold a relevant Associate Diploma plus four years post completion relevant work experience.

Applicants with ten years post qualification experience and employment in a senior position will be considered for admission on the basis that they can demonstrate the ability to undertake postgraduate study. This may involve a written submission and/or an interview or alternatively the submission of evidence of general or professional qualifications and experience.

Special Requirements
Assumed knowledge of Bushfire Behaviour unit is required.

Course Structure
Qualification for this award requires the successful completion of 60 credit points which comprises of the six core units listed below.

Core Units
200457.1 Bushfire Behaviour
200498.1 Planning for Bushfire Prone Areas
200458.1 Building in Bushfire Prone Areas
200500.1 Bushfire Fighting
200459.1 Emergency Management for Bushfire Prone Areas
200499.1 Alternative Solutions for Bushfire Prone Areas

Master of Engineering

3623.1

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

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

Location

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

Admission
Candidates must possess at least a Bachelor degree in Engineering or Industrial Design or equivalent qualification, and where applicable relevant professional experience.

Candidates who do not meet the requirements for entry at Masters level may be admitted to the Graduate Certificate course, and may transfer to the Masters degree later on the basis of performance.

Course Structure
The Master of Engineering is an 80 Credit Points degree. All Master of Engineering students, except for prospective students intending to qualify for Master of Engineering Honours, are recommended to study:

- 10 credit points from the Reserch Skills list
- Two 10 credit point Master Alternates
- 300513 Engineering Software Applications (10 credit points)
- Four 10 credit point Engineering Specialist Alternates

The flexible structural framework accommodates a pathway for students interested in research to qualify for Master of Engineering Honours through Master of Engineering coursework in identically the same way as the Graduate Certificate in Research Studies students. For these research-focussed students, they should study the following units in Semester 1:

- 10 credit point Research Skills
- 20 creidt point Advanced Research Preparation
- 300513 Engineering Software Applications (or another Advanced Topic after consultation with Course Advisor).

Units:

Research Skills Units
300398.1 Methods of Researching
EH838A.1 Research Methods: Science in Context
HT401A.1 Research Philosophy & Methodology (V1)

Master Alternates
Two 10 credit point MasterA lternates to be selected from the following list (after consultation with Course Advisor):
51240.1 Project Management
51244.1 Statistical Methods for Research
51257.1 Manufacturing Resource Planning
51260.1 Research and Development Management
51286.1 Contemporary Engineering Organisation and Management Practice
300189.1 Master of Engineering: Specialist Reading
200223.1 Operations Management
300264.1 Web Site Management and Security
300268.1 Information Technology for Virtual Organisations

300441.1 E-Business Technology and Security
300443.1 Web Engineering
300444.1 Business Process Modelling and Management
300490.1 Advanced Thesis Preparation (STE)
BG706A.1 Fire and Building Regulations
BG810A.1 Fire Safety Systems 1 (Property)
EN806A.1 Fire Engineering 1 (Fire Dynamics)
H7104.1 Strategic Technology Management
PE806A.1 Building Fire Services

300490 Advanced Thesis Preparation (20 credit points) is for students with research interest intending to qualify for Master of Engineering Honours only.

Engineering Specialist Units:

Some of these units are linked to undergraduate units which are delivered on a biennial basis. Students are flexible to choose any combination from the list. The sub-headings provide guidance to the particular area of engineering discipline of the units.

For all Engineering Disciplines:

300513.1 Engineering Software Applications

Civil

Annual Delivery
300205.1 Linear and Nonlinear Analysis of Structures
88121.1 Steel Structures (PG)
88131.1 Concrete Structures (PG)
Biennial Odd year delivery
300195.1 Numerical and Finite Element Methods
88125.1 Water Resources Engineering (PG)
Biennial Even year delivery
300520.1 Foundations Engineering (PG)
300519.1 Drainage Engineering (PG)
88122.1 Timber Structures (PG)

Environmental

Annual Delivery
300181.1 Environmental Engineering Studies
300395.1 Risk Assessment
EH827A.1 Air Quality Assessment and Management (PG)
EH828A.1 Noise Assessment and Control
MI807A.1 Water and Wastewater Microbiology
Biennial Odd year delivery
88125.1 Water Resources Engineering (PG)
Biennial Even year delivery
300519.1 Drainage Engineering (PG)

Computer

Annual Delivery
300172.1 Advanced Control Systems
300173.1 Advanced Data Networks
300200.1 Signal Processing 1
Biennial Odd year delivery
300174.1 Advanced Digital Systems
300192.1 Mobile Robotic Systems
300211.1 Digital Control
Biennial Even year delivery
300176.1 Advanced Robotics
300516.1 Engineering Visualisation Systems

Electrical

Annual Delivery
300172.1 Advanced Control Systems
300173.1 Advanced Data Networks
300197.1 Power System Planning and Economics
300200.1 Signal Processing 1
300204.1 Special Electrical Machines
300214.1 Advanced Electromagnetics
300515.1 Instrumentation and Measurement (PG)
300601.1 Advanced Electrical Machines and Drives
Biennial Odd year delivery
300174.1 Advanced Digital Systems
300211.1 Digital Control
Biennial Even year delivery
87111.1 Electronic Systems
300521.1 Communications Systems (PG)

Telecommunications

Annual Delivery
300172.1 Advanced Control Systems
300173.1 Advanced Data Networks
300196.1 Personal Communication Systems
300200.1 Signal Processing 1
300214.1 Advanced Electromagnetics
300515.1 Instrumentation and Measurement (PG)
Biennial Odd year delivery
300174.1 Advanced Digital Systems
300193.1 Multimedia Engineering
Biennial Even year delivery
300516.1 Engineering Visualisation Systems
300521.1 Communications Systems (PG)

Industrial Design Engineering

Industrial Design Engineering units will not be available from 2008.

Annual Delivery
300179.1 Design Management: Organisational Skills for Designers
300184.1 Industrial Graphics - 2D Drawing
300185.1 Industrial Graphics - 3D Modelling
300186.1 Industrial Graphics - Surface
300206.1 Sustainable Design
300207.1 Sustainable Futures
300517.1 Master Studio 1
300518.1 Master Studio 2

Robotics & Mechatronics

Annual Delivery
300172.1 Advanced Control Systems
300173.1 Advanced Data Networks
300200.1 Signal Processing 1

300204.1 Special Electrical Machines
300514.1 Microprocessor Applications in Engineering
300515.1 Instrumentation and Measurement (PG)
Biennial Odd year delivery
300192.1 Mobile Robotic Systems
300512.1 Servo Systems Design (PG)
Biennial Even year delivery
300176.1 Advanced Robotics
300191.1 Mechatronic System Design

Graduate Diploma in Engineering

3624.1

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

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

Location

Campus	Attendance	Mode
Penrith Campus	Full Time	Internal

Course Structure

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

- 10 credit points from the Research Skills list
- 10 credit points from the Master Alternate list
- 300513 - Engineering Software Applications
- Three 10 credit point units from the Engineering Specialist Alternates list

Please see course 3623 Master of Engineering for a list of relevant units.

Graduate Certificate in Engineering

3625.1

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 session full-time, or 1 year part-time.

Admission

To be considered for admission, you must have completed a relevant Bachelor's degree or equivalent.

Candidates who fall short of meeting the requirements for entry at Master level may be admitted to the Graduate Certificate course, and may transfer to the Master degree later on the basis of performance.

Course Structure

The Graduate Certificate in Engineering is a 40 Credit Point degree. Students are required to study:

- 10 credit points from the Rsearch Skills list
- 300513 - Engineering Software Applications
- Two 10 credit point units from the Engineering Specialist Alternates list

Please see course 3623 Master of Engineering for a list of relevant units.

Master of Environmental Management

3602.1

In developing a sound philosophy of environmental management, students will be exposed to thinking and learning processes designed to: teach them to frame and present ideas; design measures to solve problems and resolve conflicts; research and analyse existing situations; develop, implement and report on appropriate recommendations for the sound management of the environment. This educational path, combined with teaching and facilitation strategies offered in the Master of Environmental Management program, provides students a choice of study not generally offered by other institutions.

Study Mode
This course is offered externally, both full-time and part-time options. Attendance at compulsory on-campus workshops is required. Duration is one year full-time or two years part-time.

Location

Campus	Attendance	Mode
Hawkesbury Campus	Full Time	External
Hawkesbury Campus	Part Time	External

Admission
Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on postgraduate courses is available on the Postgraduate Admissions section of the UWS website. A Bachelors degree, diploma or equivalent and industry experience in a relevant field is required.

Course Structure
The course structure below represents a typical part-time study pattern. This program will be offered by both full-time and part-time study but due to the professional nature of the program most students will study part-time. Students studying full-time should contact the Program Co-ordinator to discuss the full-time study sequence.

Recommended Sequence

Part-time

For students commencing at the start of the year:

Year 1

Autumn session
300396.1 Developing Professional Practice
300397.1 Perspectives of Sustainable Development

Spring session
300400.1 Managing for Sustainable Development
EH830A.1 Environmental Assessment

Year 2

Autumn session
300398.1 Methods of Researching
And one alternate unit

Spring session
300399.1 Researching Professional Issues
And one alternate unit

Part-time

For students commencing mid-year:

Year 1

Spring session
EH830A.1 Environmental Assessment
and one alternate unit

Year 2

Autumn session
300398.1 Methods of Researching
300397.1 Perspectives of Sustainable Development

Spring session
300399.1 Researching Professional Issues
300400.1 Managing for Sustainable Development

Year 3

Autumn session
300396.1 Developing Professional Practice
And one alternate unit

Full-time

Year 1

Autumn session
300396.1 Developing Professional Practice
300397.1 Perspectives of Sustainable Development
300398.1 Methods of Researching
And one alternate unit

Spring session
EH830A.1 Environmental Assessment
300399.1 Researching Professional Issues
300400.1 Managing for Sustainable Development
And one alternate unit

Please note:
Students have the option of replacing one alternate unit and the core unit 300399 Reseaching Professional Issues with the following 2-session long research unit:
EH850A.2 Masters Research Project
Students considering this option should consult with the Head of Program.

Alternate Units:
ASEC82.1 Environmental Policy
CP810A.1 Environmental Computing
EH827A.1 Air Quality Assessment and Management (PG)
EH828A.1 Noise Assessment and Control
EH829A.1 Environmental Management Systems
EH845A.1 Hazardous Chemical Assessment
EH849A.1 Special Issues in Sustainable Development

EY810A.1 Aquatic Resource Management (V1)
EY811A.1 Protected Areas Management
EY813A.1 Management of Aquatic Environments
100649.1 Leadership and Change
300395.1 Risk Assessment

Graduate Diploma in Environmental Management

3603.1

In developing a sound understanding of the environmental management profession, students will be exposed to thinking and learning processes designed to: teach them to frame and present ideas; design measures to solve problems and resolve conflicts; research and analyse existing situations; develop appropriate recommendations for the sound management of the environment. This educational path, combined with teaching and facilitation strategies offered in the Graduate Diploma in Environmental Management program, provides students a choice of study not generally offered by other institutions.

Study Mode

This course is offered externally, both full-time and part-time. Duration is one year full-time or 1.5 years part-time. Attendance at compulsory on-campus workshops is required.

Location

Campus	Attendance	Mode
Hawkesbury Campus	Full Time	External
Hawkesbury Campus	Part Time	External

Admission

Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on postgraduate courses is available on the Postgraduate Admissions section of the UWS website. A diploma or equivalent in a relevant field or a TAFE certificate and industry experience in a relevant field is required.

Course Structure

Recommended Sequence

Part-time

For students commencing at the start of the year:

Year 1

Autumn session
300396.1 Developing Professional Practice
300397.1 Perspectives of Sustainable Development

Spring session
EH830A.1 Environmental Assessment
And one alternate unit

Year 2

Autumn session
300398.1 Methods of Researching
And one alternate unit

Part-time

For students commencing mid-year:

Year 1

Spring session
EH830A.1 Environmental Assessment
and one alternate unit

Year 2

Autumn session
300396.1 Developing Professional Practice
300397.1 Perspectives of Sustainable Development

Spring session
one alternate unit

Year 3

Autumn session
300398.1 Methods of Researching

Full-time

Year 1

Autumn session
300396.1 Developing Professional Practice
300397.1 Perspectives of Sustainable Development
300398.1 Methods of Researching

Spring session
EH830A.1 Environmental Assessment
And two alternate units

Alternate Units:

ASEC82.1 Environmental Policy
CP810A.1 Environmental Computing
EH827A.1 Air Quality Assessment and Management (PG)
EH828A.1 Noise Assessment and Control
EH829A.1 Environmental Management Systems
EH845A.1 Hazardous Chemical Assessment
EH849A.1 Special Issues in Sustainable Development
EY810A.1 Aquatic Resource Management (V1)
EY811A.1 Protected Areas Management
EY813A.1 Management of Aquatic Environments
100649.1 Leadership and Change
300395.1 Risk Assessment

Graduate Certificate in Environmental Management

3604.1

In developing a sound knowledge of environmental management practice, students will be exposed to thinking and learning processes designed to: teach them to frame and present ideas; design measures to solve problems and resolve conflicts; research and analyse existing situations; implement appropriate recommendations for the sound practice of management of the environment. This educational path, combined with teaching and facilitation strategies offered in the Graduate Certificate in Environmental Management program, provides students a choice of study not generally offered by other institutions.

Study Mode

One year part-time in external mode. Attendance at compulsory on-campus workshops is required.

Location

Campus	Attendance	Mode
Hawkesbury Campus	Part Time	External

Admission

Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on postgraduate courses is available on the Postgraduate Admissions section of the UWS website. A TAFE certificate or equivalent and industry experience in a relevant field is required.

Course Structure

Recommended Sequence

Part-time

Year 1

Autumn session
300396.1 Developing Professional Practice
300397.1 Perspectives of Sustainable Development

Spring session
EH830A.1 Environmental Assessment
And one alternate unit

Alternate Units:

ASEC82.1 Environmental Policy
CP810A.1 Environmental Computing
EH827A.1 Air Quality Assessment and Management (PG)
EH828A.1 Noise Assessment and Control
EH829A.1 Environmental Management Systems
EH845A.1 Hazardous Chemical Assessment
EH849A.1 Special Issues in Sustainable Development
EY810A.1 Aquatic Resource Management (V1)
EY811A.1 Protected Areas Management
EY813A.1 Management of Aquatic Environments
100649.1 Leadership and Change
300395.1 Risk Assessment

Master of Fire Safety Engineering

2651.1

The offshore offering of this program in Singapore is no longer admitting students.

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

Study Mode

Two years part-time

Location

Campus	Attendance	Mode
Blacktown Campus	Part Time	External

Academic Credit and Advanced Standing

Subject to UWS policy

Admission

Applications to this course must be made through the Universities Admissions Centre (UAC). International applicants should contact UWS International for details on admission. Contact information for the International Office is available from the University's website.

Candidates must posess a degree in either building, architecture, engineering or science. Candidates without a degree but with an Associate Diploma in building or related area or full corporate membership of the Institute of Fire Engineers must have at least five years relevant professional work experience in the field or a related profession. Applicants with ten years post qualification experience and employment in a senior position will be considered for admission on the basis that they can demonstrate the ability to undertake postgraduate study. This may involve a written submission and/or an interview or, alternatively, the submission of evidence of general or professional qualifications and experience.

Course Structure

Qualification for this award requires the successful completion of 80 credit points as per the recommended sequence below. All units are compulsory. The course structure comprises the following units. In some instances due to resource and demand, there may be a need to rearrange the pattern set down below:

Session 1
BG706A.1 Fire and Building Regulations
EN806A.1 Fire Engineering 1 (Fire Dynamics)

Session 2
BG810A.1 Fire Safety Systems 1 (Property)
PE806A.1 Building Fire Services

Session 3
PH703A.1 Fire Engineering 2 (Fire Models)
BG811A.1 Fire Safety Systems 2 (Life Safety)

Session 4
200328.1 Built Environment Research Project

Graduate Diploma in Fire Safety Engineering

2652.1

The course is designed to provide professionals with an understanding of fire engineering principles and fire safety design and is relevant to professionals assessing alternative fire safety solutions where the performance based Building Code of Australia and the Fire Engineering Guidelines have been used.

This course is also an exit award to 2651 Master of Fire Safety Engineering.

Study Mode

One and a half years part-time .

Location

Campus	Attendance	Mode
Blacktown Campus	Part Time	External

Academic Credit and Advanced Standing

Subject to UWS policy.

Accreditation

Accreditation by Australian Institute of Building Surveyors.

Admission

Applications to this course must be made through the Universities Admissions Centre (UAC). International applicants should contact UWS International for details on admission. Contact information for the International Office is available from the University's website.

Applicants must hold a degree in building, architecture, science or engineering. Those without a degree may be considered for admission if they hold an Associate Diploma in building or related area or have full corporate membership of the Institute of Fire, including Engineers who have at least five years relevant professional work experience in the field or a related profession.

Applicants with ten years post qualification experience and employment in a senior position will be considered for admission on the basis that they can demonstrate the ability to undertake postgraduate study. This may involve a written submission and/or an interview or, alternatively, the submission of evidence of general or professional qualifications and experience.

Course Structure

Qualification for this award requires the successful completion of 60 credit points as per the recommended sequence below. All units are compulsory. The course structure comprises the following units. In some instances due to resource and demand considerations there may be a need to rearrange the pattern set down below.

Recommended Sequence

Year 1

Session 1
BG706A.1 Fire and Building Regulations
EN806A.1 Fire Engineering 1 (Fire Dynamics)

Session 2
BG810A.1 Fire Safety Systems 1 (Property)
PE806A.1 Building Fire Services

Year 2

Session 3
PH703A.1 Fire Engineering 2 (Fire Models)
BG811A.1 Fire Safety Systems 2 (Life Safety)

Graduate Certificate in Fire Safety Engineering

2653.1

The course introduces professionals to fire safety engineering principles and fire safety engineering. It is designed for professionals wishing to become familiar with the concept of fire safety solutions where the performance based Building Code of Australia and the Fire Engineering Guidelines have been used.

This course is also an exit award to 2651 Master of Fire Safety Engineering.

Study Mode

One year part-time. Full-time study is subject to negotiation and the Head of programs approval.

Location

Campus	Attendance	Mode
Blacktown Campus	Part Time	External

Academic Credit and Advanced Standing

Each application to be considered on its merits and approved by Head of School.

Accreditation

Accreditation by Australian Institute of Building Surveyors

Admission

Applications to this course must be made through the Universities Admissions Centre (UAC). International applicants should contact UWS International for details on admission. Contact information for the International Office is available from the University's website.

Degree, or its equivalent, in a relevant area of study. Applicants who do not hold a degree may be admitted if they hold a relevant Associate Diploma PLUS 4 years post completion relevant work experience OR if they can demonstrate signficant relevant industry experience.

Applicants with ten years post qualification experience AND employment in a senior position will be considered for admission on the basis that they can demonstrate the ability to undertake postgraduate study. This may involve a written submission and/or an interview or, alternatively, the submission of evidence of general or professional qualifications and experience.

Course Structure

Qualification for this award requires the successful completion of 30 credit points as per the recommended sequence below. In some instances due to resource and demand considerations there may be a need to rearrange the pattern set down below.

Recommended Sequence

Session 1
BG706A.1 Fire and Building Regulations
EN806A.1 Fire Engineering 1 (Fire Dynamics)

Session 2
BG810A.1 Fire Safety Systems 1 (Property)

Master of Health Services Management

4574.1

The Master of Health Services Management course is designed for managers who require skills in contemporary management and their application in the health care setting. The course is suitable for health services managers in both the private and public sectors and in a variety of settings, including medium and large organisations. 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. It is important for managers to be current with developments in the general business area so their potential in the health care setting can be evaluated and implemented. Two areas in which theories and strategies rapidly change are strategic and human resource management. To ensure relevance and currency for students in these areas, they will be studied together with general business students.

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

Location

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

Academic Credit and Advanced Standing
Applications for advanced standing will be assessed in accordance with current UWS policy.

Accreditation
This programme is accredited with the Australian College of Health Services Executives.

Admission
Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on admission to postgraduate courses is available on the Local Admissions section of the UWS website.

For admission, students are required to have successfully completed, an undergraduate degree, and have two years of health services workplace experience.

International applicants should contact UWS International for details on admission. Contact information for the International Office is available via the UWS website.

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

Recommended Sequence

Full-time

Autumn session
400417.1 Epidemiology and Quantitative Methods
46518.1 Human Resource Management
400424.1 Organisations and Management in Human and Health Services
400416.1 Public Health, Policy and Society

Spring session
400425.1 Contemporary Issues in Health and Health Management
400800.1 Financial Management in Health Services
400420.1 Health Economics and Comparative Health Systems
51109.1 Strategic Analysis and Decision-Making

Part-time

Year 1

Autumn session
400416.1 Public Health, Policy and Society
400424.1 Organisations and Management in Human and Health Services

Spring session
400420.1 Health Economics and Comparative Health Systems
400800.1 Financial Management in Health Services

Year 2

Autumn session
400417.1 Epidemiology and Quantitative Methods
46518.1 Human Resource Management

Spring session
400425.1 Contemporary Issues in Health and Health Management
51109.1 Strategic Analysis and Decision-Making

Graduate Diploma in Health Services Management

4575.1

The course provides students with an understanding of the broader context within which health services managers must function, including the policy, economic and organisational environments. Key management skills required for practice in small to large organisations are developed including financial, accounting and human resource management skills. Students will gain evaluation skills allowing them to critically appraise evidence for health interventions and programs for which they are responsible, both from a health outcome and an economic perspective.

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

Location

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

Academic Credit and Advanced Standing
Applications for advanced standing will be assessed in accordance with current UWS policy.

Accreditation
This programme is accredited with the Australian College of Health Services Executives.

Admission
Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on admission to postgraduate courses is available on the Local Admissions section of the UWS website.

For admission students are required to have successfully completed an undergraduate degree, and have two years of health related workplace experience.

International applicants should contact UWS International for details on admission. Contact information for the International Office is available via the UWS website.

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

Recommended Sequence

Full-time

Autumn session
400417.1 Epidemiology and Quantitative Methods
46518.1 Human Resource Management
400424.1 Organisations and Management in Human and Health Services
400416.1 Public Health, Policy and Society

Spring session
400800.1 Financial Management in Health Services
400420.1 Health Economics and Comparative Health Systems

Part-time

Year 1

Autumn session
400416.1 Public Health, Policy and Society
400424.1 Organisations and Management in Human and Health Services

Spring session
400420.1 Health Economics and Comparative Health Systems
400800.1 Financial Management in Health Services

Year 2

Autumn session
400417.1 Epidemiology and Quantitative Methods
46518.1 Human Resource Management

Graduate Certificate in Health Services Management

4576.1

The course provides students with an understanding of the broader context within which health services managers must function, including the policy, economic and organisational environments. Students will develop financial management and accounting skills required for practice in all health care units.

Study Mode
One year part-time.

Location

Campus	Attendance	Mode
Parramatta Campus	Part Time	Internal

Academic Credit and Advanced Standing
Applications for advanced standing will be assessed in accordance with current UWS policy.

Admission
Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on admission to postgraduate courses is available on the Local Admissions section of the UWS website.

Admission requirement is either successful completion of an undergraduate degree or substantial (minimum three years) experience in a senior management position within the health sector. Many health professionals have trained outside the university system, eg, nurses and podiatrists, prior to transfer of training programs to the university sector. These professionals may have extensive experience, hold senior positions and have attained a number of certificate and diploma specialisations. In this situation only and where extensive work experience is evident, the coordinator will approve admission to the graduate certificate. Students may progress to the Graduate Diploma and MHSM courses on successful completion of the graduate certificate units.

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

Recommended Sequence

Part-time

Year 1

Autumn session
400424.1 Organisations and Management in Human and Health Services
400416.1 Public Health, Policy and Society

Spring session
400800.1 Financial Management in Health Services
400420.1 Health Economics and Comparative Health Systems

Master of Information Technology (Web Engineering & Design)

3564.3

Enormous growth of the world wide web, the internet, intranets and extranets has had a huge impact on business, commerce, industry, banking, finance, education, government, as well as in our daily and working lives. Organisations now provide increasing amounts of information through the web and migrate more and more of their business activities to web based systems. Web services, a fast growing area of web-based application development goes beyond the boundaries of a single organisation, making it possible to bind applications from one or more organisations to give a unified service to users. There is a constant presence on the horizon of new technologies, standards and protocols. At the same time, phenomenal changes of the past have forced a major rethinking of the entire range of business processes. The challenges to application development thus come from multiple sources and are more complex than ever before.

This course has been successfully run by UWS for the past several years and has now been revised to bring it up to date with the rapid and massive changes in web technologies, their applications and methodologies. It draws upon the strengths, specific expertise and research interests of the university staff who are leading in the area of 'web engineering' internationally.

Master of Information Technology (Web Engineering and Design) has the goal, and is organised, to address all the issues related to web sites, applications and services development. It is designed to fulfil the strong need for professionals who can design and develop large, complex, evolutionary and maintainable web systems. Students completing this course will be current with the latest and upcoming tasks in web development which will make them significantly more attractive to prospective employers.

Study Mode
One year full-time (4 units per session) or two years part-time (2 units per session).

Location

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

Accreditation
The current course is accredited having full membership of the Australian Computer Society (ACS). Upon approval of the change to the course, continuation of the accreditation will be applied for and full accreditation approval is expected by the ACS.

Admission
Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on postgraduate courses is available on the Postgraduate Admissions section of the UWS website. A Bachelor's degree in computing acceptable for full membership of the Australian Computer Society; or bachelor's degree in any discipline equivalent to an Australian degree plus Graduate Diploma in Computing and Information Technology or equivalent qualifications; or a bachelor's degree plus at least three years full time (or equivalent) professional computing experience acceptable for full membership of the Australian Computer Society. However, in some cases students with non-computing educational background may be required to complete several units of additional study of systems analysis and design, database and data communication. Minimum qualifications do not necessarily guarantee an admission to the course.

Course Structure
For completion of this course, students must successfully complete six core units and two alternate units thus obtaining 80 credit points.

Recommended Sequence

Full-time

Year 1

Autumn session
300260.1 IT Project Management
300445.1 Enterprise Web Application Development
300443.1 Web Engineering

Choose one of:
300140.1 Advanced Topics in Distributed Systems
300256.1 Multimedia Communication Systems
300239.1 Computing Research Project B

Spring session
300264.1 Web Site Management and Security
300446.1 Human-Web Interaction
300437.1 XML and Web Services
Choose one of:
300252.1 Advanced Topics in Networking
300253.1 Distributed Systems and Network Security
300389.1 Wireless Networking
300238.1 Computing Research Project A

Part-time

Autumn session (1st and 2nd year)
Choose any two units from the full-time Autumn session.

Spring session (1st and 2nd year)
Choose any two units from the full-time Spring session.

Graduate Diploma in Midwifery

4505.2

The Graduate Diploma in Midwifery is a year long course developed for registered nurses wishing to pursue a career in midwifery. The course is made up of theory and practice with an emphasis on the art and science of midwifery, health promotion and continuity of care. Students will gain essential clinical experience through paid employment in an affiliated maternity hospital for the duration of the course.

Study Mode
One year full-time or two years part-time study. Students enrolling in part-time study are required to take the clinical component over one year of continuous employment (32 hrs/week) to meet professional requirements. Flexibility, therefore pertains to the theoretical load and not the clinical component.

Location

Campus	Attendance	Mode
Bankstown Campus	Full Time	Internal
Bankstown Campus	Part Time	Internal

Academic Credit and Advanced Standing
Applications for advanced standing will be assessed in accordance with current UWS policy.

Accreditation
Professional accreditation with the New South Wales Nurses and Midwives Board.

Admission
Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on admission to postgraduate courses is available on the Local Admissions section of the UWS website.

Eligibility for admission is based on the following requirements:

- Registered as a nurse under the Register of the Nurses and Midwives Board NSW, or equivalent;
- Possession of an undergraduate degree or equivalent
- Interview, and approval to work in an approved maternity unit.

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

Recommended Sequence

Full-time

Year 1

Quarter 1
400076.2 Fundamentals of Pregnancy and Birth
400077.2 Fundamentals of the Postnatal Period and the Newborn

Quarter 2
400078.2 Complications of Pregnancy and the Postnatal Period
400080.2 Practice of Midwifery I

Quarter 3
400079.2 Complications of Labour, Birth and Newborn
400082.2 Essentials for Best Practice in Midwifery

Quarter 4
400081.2 Practice of Midwifery II

Part-time

Year 1

Quarter 1
400076.2 Fundamentals of Pregnancy and Birth
400077.2 Fundamentals of the Postnatal Period and the Newborn

Quarter 2
400078.2 Complications of Pregnancy and the Postnatal Period

Quarter 3
400079.2 Complications of Labour, Birth and Newborn
400082.2 Essentials for Best Practice in Midwifery

Year 2

Quarter 2
400080.2 Practice of Midwifery I

Quarter 4
400081.2 Practice of Midwifery II

Clinical Experience
Students will also undertake clinical experience on a full-time basis of 32 hours per week, organised through the course coordinator and undertaken in maternity units that have been approved by the Nurses and Midwives Board of NSW. Clinical placements will be in maternity units in the Sydney South West and Sydney West Area Health Services.

Graduate Diploma in Naturopathy

4640.1

This Graduate Diploma is designed for students who have completed the Bachelor of Applied Science (Naturopathic Studies) (#4597) course or an equivalent course. The course is designed to extend professional and clinical competence so that graduates will meet the professional association requirements for accreditation. The course consists of advanced studies into Western Herbal Medicine, Naturopathic Nutrition, Naturopathic and Western Medical Diagnosis, Research in Complementary Medicine and Clinical Practicum. There is an emphasis on the integration of the modalities, and practice management skills, to produce practitioners whom are competent and confident to practice Naturopathy. The program is open to enrolments for people with an appropriate undergraduate qualification including an advanced diploma of Naturopathy.

Study Mode
One year full-time.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal

Academic Credit and Advanced Standing
Applications for credit transfer will be assessed in accordance with current UWS policy.

Accreditation
Professional accreditation will be sought for the combined Bachelor of Applied Science (Naturopathic Studies) and this proposed Graduate Diploma in Naturopathy. This proposed Graduate Diploma has been formulated in relation to professional association requirements for graduates of the undergraduate program first identified by the EAC for the undergraduate program in 2003. Professional accreditation of the combined Bachelor and Graduate Diploma will be sought from: National Herbalists Association of Australia (NHAA; Australian Traditional Medicine Society (ATMS); Australian Natural Therapists Association (ANTA).

Admission
Bachelor of Applied Science (Naturopathic Studies) or Equivalent.

Equivalency could be demonstrated by the holding of an Advanced Diploma of Naturopathy (minimum of three years as set out in the Australian Qualification Guidelines) plus three years experience and accreditation with a relevant professional association.

International students will need to demonstrate English language ability in accordance with UWS policy. Applications will be reviewed on an individual basis. In all cases consideration will also be given to prior learning and professional experience. Applications will be made directly to the OAR and through normal International Office procedures (overseas applications).

Special Requirements
A current Senior first aid certificate (Workcover accredited) is required. Attendance at Child Protection Workshops certificate required.

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

Recommended Sequence

Full-time

Year 1

Autumn Session
400726.1 Advanced Herbal Medicine and Nutrition
400727.1 Naturopathic Diagnosis
101296.1 The Professional Helping Interview
400728.1 Advanced Naturopathic Practice 1

Spring Session

400736.1 Practice Management for Health Professionals (PG)
400731.1 Evidence Based Naturopathic Practice
400730.1 Naturopathic Therapeutics
400729.1 Advanced Naturopathic Practice 2

Master of Nursing

4540.2

The aim of the Master of Nursing course is to produce a graduate who can undertake leadership and mentoring roles, in multiple settings, facilitate research activity and participate significantly in management activities. The graduate will also be expected to be capable of abstract thought, critical analysis and the synthesis of ideas.

The course encourages critical examination of issues such as existing nursing knowledge, the evidence based perspective of practice, the measurement of outcomes and the consumer movement. Leadership skills and the study of the relationship between research, knowledge and practice are key components of the course.

Collaborative relationships and partnerships between nurses, multidisciplinary colleagues and stakeholders in the nursing care service are highly valued elements of the course. Students are challenged to conceptualise and articulate the unique contribution of nursing to health and health care settings, to ask difficult questions and actively seek their answers.

Study Mode

One year full-time or two years part-time. Students may exit with a Graduate Diploma in Nursing upon successful completion of six units (60 credit points) from the Masters award. This course is offered via Distance Education or on campus in Hong Kong only.

Location

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

Academic Credit and Advanced Standing

Students who have successfully completed a Graduate Diploma in Nursing (Specialisation) from UWS will be eligible for advanced standing for four units offered in the Masters program. Advanced standing will also be given to applicants with Graduate Diploma awards from other universities but these will be individually assessed.

Students with only a Graduate Certificate in Nursing will enter the Master of Nursing course on successful completion of a Graduate Diploma in Nursing.

Students with only a Bachelor of Nursing award will not normally be considered for advanced standing. They have the option to enrol in the Graduate Certificate (Specialisation) courses or, having gained one year's clinical experience, may enrol in the Master of Nursing course.

Accreditation

While the NSW Nurses and Midwives Board of NSW and the NSW Nurses' Association encourage nurses to pursue appropriate postgraduate educational opportunities, professional certification or registration of nurses with this award is not required.

Admission

Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on admission to postgraduate courses is available on the Local Admissions section of the UWS website.

Candidature for admission to the Master of Nursing is based on the following requirements:

- registration as a nurse under List A of the Register of the Nurses and Midwives Board of NSW or equivalent; or eligibility for same.
- at least one year full-time experience in nursing practice
- possession of a Graduate Diploma in nursing
- possession of a Bachelor of Nursing, a Bachelor of Health Science (Nursing) or equivalent qualification (as approved by the School of Nursing Family and Community Health)

Candidates who do not satisfy the academic requirements but who meet the other requirements for entry may be admitted to the course on provisional entry. The requirements of provisional entry require candidates to satisfactorily complete and pass all first semester units. Failure to meet these requirements will result in exclusion from the course.

International registered nurses who;

- meet registration requirements in their own country;
- satisfy the University's requirements for English language competency ; and
- meet the other criteria (see above)

will be eligible for admission.

Course Structure

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

Recommended Sequence

Full-time

Year 1

Autumn session
400200.1 Applied Nursing Research
400235.1 Leadership in Clinical Practice
400774.1 Perspectives on Nursing
And one elective

Spring session
400210.1 Health Promotion and the Nurse
400236.1 Nursing Development Project
And one elective

Part-time

Year 1

Autumn session
400200.1 Applied Nursing Research
400774.1 Perspectives on Nursing

Spring session
400210.1 Health Promotion and the Nurse
And one elective

Year 2

Autumn session
400235.1 Leadership in Clinical Practice
And one elective

Spring session
400236.1 Nursing Development Project

Graduate Diploma

Students may exit with a Graduate Diploma in Nursing, upon the successful completion of the following six units (60 credit points):
400200.1 Applied Nursing Research
400210.1 Health Promotion and the Nurse
400235.1 Leadership in Clinical Practice
400774.1 Perspectives on Nursing
And two electives

Graduate Diploma in Nursing

4541.2

Exit point only. Refer to Master of Nursing, course code 4540.

Study Mode

Students may exit with a Graduate Diploma in Nursing upon successful completion of six units (60 credit points) from the Masters award. This course is offered via Distance Education or on campus in Hong Kong only.

Graduate Diploma in Nursing (Child and Family: Karitane)

4530.1

The aim of the Graduate Diploma in Nursing (Child and Family: Karitane) is to provide registered nurses with the opportunity to acquire or enhance specialist nursing knowledge, appropriate attitudes and skills to enable them to provide quality care and guidance to families so that children can thrive. This knowledge and skill are derived from the cognitive, affective and psychomotor domains.

The course encourages critical examination of issues that face child and family nurses such as the changing family structure, myths surrounding parenthood and the transitions and expectations which face the family unit, factors which affect mental health, child growth and development including sleep patterns, discipline, nutrition and special needs.

Key components of the course are evidence-based practice, primary health care, clinical decision making, critical reflection upon practice and the development of academic writing skills.

Study Mode

Two years part-time or one year full-time by Distance Education. Students may exit with a Graduate Certificate in Nursing (Child and Family: Karitane) following completion of four units (one session full-time or one year part-time study).

Location

Campus	Attendance	Mode
Campbelltown Campus	Part Time	External
Campbelltown Campus	Full Time	External

Academic Credit and Advanced Standing

Advanced standing applications will be assessed in accordance with current UWS policy.

Accreditation

The Graduate Diploma in Nursing (Child and Family: Karitane) allows registered nurses to expand their knowledge and skill base in this specialty area. While the Nurses' and Midwives Board of NSW and the NSW Nurses' Association encourage nurses to pursue appropriate postgraduate educational opportunities, certification of this award is not required by these bodies.

Admission

Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on admission to postgraduate courses is available on the Local Admissions section of the UWS website.

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

1) Registration as a nurse under List A of the Register of the NSW Nurses' Registration Board or equivalent; or eligibility for same;

2) Access to clinical experience in a child and family care setting (as approved by the School of Nursing, Family and Community Health) for exit at all levels;

3) Possession of a Bachelor of Nursing, a Bachelor of Health Science(Nursing) or equivalent qualification (as approved by the School of Nursing, Family and Community Health); or provision of evidence of general and professional nursing experience deemed by the School of Nursing, Family and Community Health to demonstrate equivalence in the capacity and educational background to participate in the course.

Course Structure

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

Recommended Sequence

Full-time

Year 1

Autumn session

400207.1 Childhood - Child and Family Health Nursing
400206.1 Evidence-based Nursing
400208.1 Parental Issues in Child and Family Health Nursing
400205.1 Social Aspects of Child and Family Health Nursing

Spring session

400200.1 Applied Nursing Research
400210.1 Health Promotion and the Nurse
400209.1 Introduction to Infant Mental Health - Child/ Family Nursing
And one elective

Part-time

Year 1

Autumn session

400206.1 Evidence-based Nursing
400205.1 Social Aspects of Child and Family Health Nursing

Spring session

400207.1 Childhood - Child and Family Health Nursing
400208.1 Parental Issues in Child and Family Health Nursing

Year 2

Autumn session

400200.1 Applied Nursing Research
400209.1 Introduction to Infant Mental Health - Child/ Family Nursing

Spring session

400210.1 Health Promotion and the Nurse
And one elective

Graduate Certificate

Students may exit with a Graduate Certificate in Nursing (Child and Family: Karitane) following completion of these four units:

400207.1 Childhood - Child and Family Health Nursing
400206.1 Evidence-based Nursing
400208.1 Parental Issues in Child and Family Health Nursing
400205.1 Social Aspects of Child and Family Health Nursing

Graduate Certificate in Nursing (Child and Family: Karitane)

4531.1

Exit point only. Refer to 4530 Graduate Diploma in Nursing (Child and Family: Karitane).

Study Mode

Distance education mode, one session full-time or one year part-time.

Master of Nursing (Clinical Leadership)

4645.1

From 2009 this course will also be offered on campus and externally for local intake.

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

Study Mode
One year full time.

Location

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

Admission
Eligibility for admission to the Master of Nursing (Clinical Leadership) is based on the following minimum requirements:

- Bachelor of Nursing, Bachelor of Health Science (Nursing) or equivalent qualification (as approved by the School of Nursing)
- Registration as a nurse or midwife under the Register of Nurses and Midwives Board NSW, or equivalent; or eligibility for same

All International students must meet an UWS English proficiency requirement; that is achievement of IELTs 6.5 or equivalent.

Course Structure

Full Time

Autumn
400235.1 Leadership in Clinical Practice
400238.1 Policy, Power and Politics in Health Care Provision
And two elective units
Recommended electives:
400206.1 Evidence-based Nursing

Spring
400778.1 Leadership and the Development of Organisational Capacity
400777.1 Leadership for Quality and Safety in Health Care
And two elective units
Recommended electives:
400800.1 Financial Management in Health Services

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

- 4644 Graduate Diploma in Nursing (Clinical Leadership)|http://handbook.uws.edu.au/hbook/course.asp?course=4644.1

Graduate Diploma in Nursing (Clinical Leadership)

4644.1

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

Course Structure
Students may choose to exit the Master of Nursing (Clinical Leadership) after completing 60 Credit Points which includes the four mandatory core units and two elective units.
400235.1 Leadership in Clinical Practice
400238.1 Policy, Power and Politics in Health Care Provision
400778.1 Leadership and the Development of Organisational Capacity
400777.1 Leadership for Quality and Safety in Health Care

- Master of Nursing (Clinical Leadership)|http://handbook.uws.edu.au/hbook/course.asp?course=4645.1

Master of Nursing (Clinical Leadership)

4638.1

The Master of Nursing (Clinical Leadership) is only available to Bachelor of Nursing degree graduates who have completed a graduate certificate or graduate diploma in nursing. The course is offered over 3 teaching sessions in part-time external mode, with the possibility of some optional face to face contact. Graduate certificate holders are granted 30 academic credit points and complete 4 subjects: leadership in clinical practice, evidence-based nursing, clinical teaching and professional development, and nursing leadership project (which provides students with the opportunity to explore a relevant topic of choice). The course prepares graduates for leadership roles within clinical practice, teaching and management.

Study Mode

One and a half years part-time, by distance education mode.

Location

Campus	Attendance	Mode
Parramatta Campus	Part Time	External

Academic Credit and Advanced Standing

This 80 credit point master of nursing course is designed specifically for pre-registration nursing degree graduates who have completed either a graduate certificate or graduate diploma in nursing and wish to upgrade to a master level award in nursing. Consequently all students will receive 30 points of advanced standing, on the basis of their prior postgraduate study. Current UWS Master of Nursing students who have completed four 10 credit-point units, namely: 400234 Nursing Knowledge: Concepts Models and Theories; 400200 Applied Nursing Research; 400210 Health Promotion and the Nurse plus an elective which may be one of the units within the Master of Nursing (Clinical Leadership) course, will be permitted to transfer into the Master of Nursing (Clinical Leadership) with full advanced standing for the units they have completed.

Admission

Eligibility for admission to the Master of Nursing (Clinical Leadership) is based on the following minimum requirements:

- Registered as a nurse under List A of the Register of the Nurses and Midwives Board, NSW or equivalent; or eligibility for same
- Possession of a graduate certificate or graduate diploma in nursing
- Possession of a Bachelor of Nursing, Bachelor of Health Science (Nursing) or equivalent qualification (as approved by the School of Nursing, Family and Community Health)

Note: Nursing masters degree graduates are also eligible for admission; and UWS policy regarding academic credit will apply.

Course Structure

Qualification for this award requires the successful completion of 80 credit points including the units listed in the recommended sequence below. This course may commence in Autumn and run over 18 months.

Recommended Sequence

Part-time

Year 1

Autumn Session
400235.1 Leadership in Clinical Practice

Spring Session
400206.1 Evidence-based Nursing
400724.1 Clinical Teaching and Professional Development

Year 2

Autumn Session
400725.1 Nursing Leadership Project

Graduate Diploma

Students may exit with a Graduate Diploma in Nursing (Clinical Leadership), upon the successful completion of the following three units (30 credit points):
400206.1 Evidence-based Nursing
400724.1 Clinical Teaching and Professional Development
400235.1 Leadership in Clinical Practice

Graduate Diploma in Nursing (Clinical Leadership)

4639.1

Exit point only. Refer to Master of Nursing (Clinical Leadership), course code 4638

Study Mode
One year part-time, in distance education mode.

Master of Nursing (Mental Health - Nurse Practitioner)

4539.1

"Nurse Practitioners" are advanced practice nurses who are authorised by the Nurses and Midwives Board of NSW to use that title. Nurse Practitioners are expected to work autonomously, instigate diagnostic investigations, prescribe medication within an approved formulary, and refer judiciously. Students of this course undertake all of the components of the Graduate Diploma in Nursing (Mental Health) then specialise in the additional Nurse Practitioner component of the course. This programme, which includes a significant advanced clinical practice component, meets the requirements of the Nurses and Midwives Board of NSW addressing areas of advanced health assessment, diagnostic skills, therapeutic management, pharmacology, evaluation and collaboration in care.

Study Mode
Mode of delivery is distance education. Students will be required to undertake supervised, advanced clinical practice in their workplace that is approved by the course coordinator, in order to successfully complete the clinical practice units. Three years part-time study in total - one year additional part-time study after completion of the course requirements for the Graduate Diploma in Nursing (Mental Health).

Location

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

Academic Credit and Advanced Standing
The Master of Nursing (Mental Health - Nurse Practitioner) articulates with the Graduate Diploma in Nursing (Mental Health). Further advanced standing would be considered on a case-by-case basis according to UWS policy.

Accreditation
Nurse Practitioners are required to apply for individual authorisation with the Nurses and Midwives Board of NSW. In order to proceed to application for Nurse Practitioner status with Nurses' Registration Board of NSW candidates must, amongst other criteria, demonstrate 5000 hours of advanced clinical practice.

Admission
Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on admission to postgraduate courses is available on the Local Admissions section of the UWS website.

Applicants must meet the admission requirements for the Graduate Diploma in Nursing (Mental Health). For details please refer to the Handbook entry for that course.

In order to progress from the Graduate Diploma to the degree Master of Nursing (Mental Health - Nurse Practitioner) the following additional criteria must also be met:

- current clinical practice of 12 months in an advanced clinical role which has been confirmed by the students employer(s)
- satisfactory credit point average achieved at Graduate Diploma level
- contract with a university approved clinical supervisor(s) to meet the requirements of the Advanced Mental Health Nursing Clinical Practice Units

Course Structure
Qualification for this award requires the successful completion of 120 credit points. The four advanced mental health nursing units may not be undertaken until successful completion of 80 credit points at year one and year two levels. The Advanced Mental Health Clinical Practice Units may only be undertaken by students working in advanced clinical practice roles in mental health.

Recommended Sequence
Full-time

Year 1
Autumn session
400206.1 Evidence-based Nursing
400217.1 Mental Health Assessment and Application
400218.1 Mental Health Nursing Practice 1
400220.1 Contemporary Professional Practice in Mental Health Nursing
Spring session
400219.1 Mental Health Nursing Practice 2
400200.1 Applied Nursing Research
400221.1 Theoretical Perspectives/Interventions Mental Health Nursing
And one elective
Part-time
Year 1
Autumn session
400217.1 Mental Health Assessment and Application
400218.1 Mental Health Nursing Practice 1

Spring session
400206.1 Evidence-based Nursing
400219.1 Mental Health Nursing Practice 2
Year 2
Autumn session
400200.1 Applied Nursing Research
400220.1 Contemporary Professional Practice in Mental Health Nursing
Spring session
400221.1 Theoretical Perspectives/Interventions Mental Health Nursing
And one elective

Graduate Certificate

Students may exit with a Graduate Certificate in Nursing (Mental Health) following completion of these four units:
400206.1 Evidence-based Nursing
400217.1 Mental Health Assessment and Application
400218.1 Mental Health Nursing Practice 1
400219.1 Mental Health Nursing Practice 2

Year 3

Autumn session
400229.1 Advanced Mental Health Nursing Clinical Practice 1
400228.1 Assessment for Advanced Practice Mental Health Nurses

Spring session
400231.1 Advanced Mental Health Nursing Clinical Practice 2
400230.1 Biological Aspects of Mental Illness for Advanced Practice

Graduate Diploma in Nursing (Mental Health)

4534.1

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

Study Mode

This is a two year part-time or one year full-time equivalent coursework program of study delivered in Distance Education mode. Students may exit with a Graduate Certificate following the completion of four units (one session full-time or one year part-time)

Location

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

Academic Credit and Advanced Standing

Partnership has been negotiated with Western Sydney Area Mental Health Service (WSAMHS). New graduates commencing employment in WSAMHS contract to undertake an educational program within the area health service that was developed collaboratively with UWS and subsequently these students receive advanced standing for the first two units within the course.

Accreditation

The Graduate Diploma in Nursing (Mental Health) allows registered nurses to expand their knowledge and skill base in this specialty area. While the Nurses and Midwives Board of NSW and the NSW Nurses' Association encourage nurses to pursue appropriate postgraduate educational opportunities, certification of this award is not required by these bodies.

Admission

Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on admission to postgraduate courses is available on the Local Admissions section of the UWS website.

Candidature for admission to the Graduate Diploma in Nursing (Mental Health) is based on the following requirements:

1) Registration as a nurse under List A of the Register of the Nurses and Midwives Board of NSW or equivalent;

2) Access to clinical experience in a mental health care setting (as approved by the School of Nursing, Family and Community Health;

3) Possession of a Bachelor of Nursing, a Bachelor of Health Science (Nursing) or equivalent qualification (as approved by the School of Nursing, Family and Community Health);or

4) Provision of evidence of general and professional nursing experience deemed by the School of Nursing, Family and Community Health, to demonstrate equivalence in the capacity and educational background to participate in the course.

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

Recommended Sequence

Full-time

Year 1

Autumn session
400206.1 Evidence-based Nursing
400217.1 Mental Health Assessment and Application
400218.1 Mental Health Nursing Practice 1
400220.1 Contemporary Professional Practice in Mental Health Nursing

Spring session
400219.1 Mental Health Nursing Practice 2
400200.1 Applied Nursing Research
400221.1 Theoretical Perspectives/Interventions Mental Health Nursing
And one elective

Part-time

Year 1

Autumn session
400217.1 Mental Health Assessment and Application
400218.1 Mental Health Nursing Practice 1

Spring session
400206.1 Evidence-based Nursing
400219.1 Mental Health Nursing Practice 2

Year 2

Autumn session
400200.1 Applied Nursing Research
400220.1 Contemporary Professional Practice in Mental Health Nursing

Spring session
400221.1 Theoretical Perspectives/Interventions Mental Health Nursing
And one elective

Graduate Certificate
Students may exit with a Graduate Certificate in Nursing (Mental Health) following completion of these four units:
400206.1 Evidence-based Nursing
400217.1 Mental Health Assessment and Application
400218.1 Mental Health Nursing Practice 1
400219.1 Mental Health Nursing Practice 2

Graduate Certificate in Nursing (Mental Health)

4535.1

Exit point only. Refer to 4534 Graduate Diploma in Nursing (Mental Health).

Study Mode
Six months full-time or one year part-time, by Distance Education mode.

Master of Occupational Safety, Health and Environmental Management

3605.1

This course aims to provide students with high level professional skills in integrating approaches to occupational safety, health and environmental management that are essential for sustainable development. Students will develop the skills necessary for the development and implementation of integrated occupational environment management plans, as well as situation improvement, change evaluation and professional research.

Study Mode
One year full-time and two years part-time, but due to the professional nature of the program most students will study part-time. Delivery will be external, by flexible learning, written study packages, WebCT and compulsory workshop attendance. The workshop components will be delivered on Hawkesbury campus.

Location

Campus	Attendance	Mode
Hawkesbury Campus	Full Time	External
Hawkesbury Campus	Part Time	External

Admission

Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on postgraduate courses is available on the Postgraduate Admissions section of the UWS website. A Bachelors degree (or equivalent) in a relevant field plus significant OHS experience; or graduate diploma in an OHS related area.

Course Structure

Recommended Sequence

Part-time

For students commencing at the start of the year

Year 1

Autumn session
300396.1 Developing Professional Practice
300397.1 Perspectives of Sustainable Development

Spring session
300400.1 Managing for Sustainable Development
300390.1 Safety Management

Year 2

Autumn session
300398.1 Methods of Researching
And one alternate unit

Spring session
300399.1 Researching Professional Issues
And one alternate unit

Part-time

For students commencing mid-year

Year 1

Spring session
300390.1 Safety Management
And one alternate unit

Year 2

Autumn session
300397.1 Perspectives of Sustainable Development
300398.1 Methods of Researching

Spring session
300400.1 Managing for Sustainable Development
300399.1 Researching Professional Issues

Year 3

Autumn session
300396.1 Developing Professional Practice
And one alternate unit

Full-time

Year 1

Autumn session
300396.1 Developing Professional Practice
300397.1 Perspectives of Sustainable Development
300398.1 Methods of Researching
and one alternate unit

Spring session
300390.1 Safety Management
300400.1 Managing for Sustainable Development
300399.1 Researching Professional Issues
and one alternate unit

Please note:
Students have the option of replacing one alternate unit and the core unit 300399 Reseaching Professional Issues with the following 2-session long research unit:
EH850A.2 Masters Research Project
Students considering this option should consult with the Head of Program.

Alternate Units:

EH827A.1 Air Quality Assessment and Management (PG)
EH828A.1 Noise Assessment and Control
EH829A.1 Environmental Management Systems
EH840A.1 Ergonomics
EH841A.1 Critical Incident Analysis
EH845A.1 Hazardous Chemical Assessment
EH849A.1 Special Issues in Sustainable Development
EY813A.1 Management of Aquatic Environments
300391.1 Occupational Health Management
300392.1 Safety Systems Integration
300393.1 Auditing the Management of Occupational Health & Safety
300394.1 Occupational Environment: Assessment & Control
300395.1 Risk Assessment

Graduate Diploma in Occupational Safety, Health and Environmental Management

3606.1

This course gives students the opportunity to acquire the knowledge and develop the skills for the effective practice of occupational safety, health and environmental management. It is specifically designed to establish professional practices in the integrated approaches to occupational safety, health and environmental management that are essential for sustainable development.

Study Mode

One year full-time, 18 months part-time, but due to the professional nature of the program most students will study part-time. Delivery will be external, by flexible learning, written study packages, WebCT and compulsory workshop attendance. The workshop components will be delivered on Hawkesbury campus.

Location

Campus	Attendance	Mode
Hawkesbury Campus	Full Time	External
Hawkesbury Campus	Part Time	External

Admission

Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on postgraduate courses is available on the Postgraduate Admissions section of the UWS website. A bachelors degree or equivalent, plus a minimum of two years OHS experience; or graduate certificate in an OHS related area.

Course Structure

Recommended Sequence

Part-time

For students commencing at the start of the year:

Year 1

Autumn session
300396.1 Developing Professional Practice
300397.1 Perspectives of Sustainable Development

Spring session
300390.1 Safety Management
And one alternate unit

Year 2

Autumn session
300398.1 Methods of Researching
And one alternate unit

Part-time

For students commencing mid-year:

Year 1

Spring session
300390.1 Safety Management
And two alternate units

Year 2

Autumn session
300396.1 Developing Professional Practice
300397.1 Perspectives of Sustainable Development

Spring session
One alternate unit

Year 3

Autumn session
300398.1 Methods of Researching

Full-time

Year 1

Autumn session
300396.1 Developing Professional Practice
300397.1 Perspectives of Sustainable Development
300398.1 Methods of Researching

Spring session
300390.1 Safety Management
And two alternate units

Alternate Units:

EH827A.1 Air Quality Assessment and Management (PG)
EH828A.1 Noise Assessment and Control
EH829A.1 Environmental Management Systems
EH840A.1 Ergonomics
EH841A.1 Critical Incident Analysis
EH845A.1 Hazardous Chemical Assessment
EH849A.1 Special Issues in Sustainable Development
EY813A.1 Management of Aquatic Environments
300391.1 Occupational Health Management
300392.1 Safety Systems Integration
300393.1 Auditing the Management of Occupational Health & Safety
300394.1 Occupational Environment: Assessment & Control

300395.1 Risk Assessment

Graduate Certificate in Occupational Safety, Health and Environmental Management

3607.1

This course gives students the opportunity to acquire the knowledge and skills necessary for the effective practice of occupational safety, health and environmental management. It is designed for Occupational Safety, Health and Environmental management practitioners who want to obtain a basic postgraduate qualification.

Study Mode

One year part-time. Delivery will be external, by flexible learning, written study packages, WebCT and compulsory workshop attendance. The workshop components will be delivered on Hawkesbury campus.

Location

Campus	Attendance	Mode
Hawkesbury Campus	Part Time	External

Admission

Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on postgraduate courses is available on the Postgraduate Admissions section of the UWS website. A degree in a non-OHS related field; or Certificate IV in Workplace Safety (or equivalent) plus 12 months OHS experience; or significant OHS experience (> 3 years).

Course Structure

Recommended Sequence

Part-time

Year 1

Autumn session

300397.1 Perspectives of Sustainable Development
300396.1 Developing Professional Practice

Spring session

300390.1 Safety Management
And one alternate unit

Alternate Units:

EH827A.1 Air Quality Assessment and Management (PG)
EH828A.1 Noise Assessment and Control
EH829A.1 Environmental Management Systems
EH840A.1 Ergonomics
EH841A.1 Critical Incident Analysis
EH845A.1 Hazardous Chemical Assessment
EH849A.1 Special Issues in Sustainable Development
EY813A.1 Management of Aquatic Environments
300391.1 Occupational Health Management
300392.1 Safety Systems Integration
300393.1 Auditing the Management of Occupational Health & Safety
300394.1 Occupational Environment: Assessment & Control
300395.1 Risk Assessment

Master of Osteopathy

4580.1

The Master of Osteopathy course is a postgraduate professional program recognised at tertiary, government and professional levels aimed to meet the professional needs of osteopaths. This course offers students the opportunity to develop strong theoretical foundations and primary health care practice skills in a range of specialisations.

The course has a strong clinical orientation with an emphasis on the application of knowledge to osteopathic health care practice. Once students have completed this Masters program, they will be eligible to apply for registration as an osteopath in a number of states of Australia.

Overseas and International students are also encouraged, as the Master of Osteopathy course is recognised in a number of countries overseas

Study Mode

Two years full-time.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal

Academic Credit and Advanced Standing

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

Accreditation

This program was developed in close cooperation with the Australian Osteopathic Association of New South Wales (NSW), the NSW Osteopaths' Registration Board and is a recognised pathway leading to registration as an Osteopath.

Admission

Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on admission to postgraduate courses is available on the Local Admissions section of the UWS website.

Applicants must hold a tertiary degree in Osteopathy. All applicants must have completed the requirements, or their equivalent, of the units offered in the undergraduate Bachelor of Applied Science (Osteopathic Studies)/ Bachelor of Applied Science (Osteopathy) degree before they can be considered for entry into this program.

Applicants who can demonstrate that they have met some but not all requirements of the Bachelor of Applied Science (Osteopathic Studies), will be required to take units from undergraduate award as non-award study.

International applicants should contact UWS International for details on admission. Contact information for the International Office is available via the UWS website.

Course Structure

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

Recommended Sequence

Full-time

Year 1

Autumn session

400426.2 Clinical Osteopathic Medicine 1
400428.1 Evidence Based Health Care
400427.1 Introduction to Osteopathic Clinical Practice
400429.2 Rehabilitation for Osteopaths

Spring session

400433.2 Advanced Diagnostic Imaging for Osteopaths
400430.1 Clinical Osteopathic Medicine 2
400431.1 Diagnostic Reasoning in Osteopathic Practice
400432.1 Osteopathic Research 1

Year 2

Autumn session

400434.1 Clinical Osteopathic Medicine 3
400437.1 Nutrition and Pharmacology for Osteopaths
400436.1 Osteopathic Research 2
400435.1 Treatment Planning in Osteopathic Practice

Spring session

400438.1 Clinical Osteopathic Medicine 4
400440.2 Integrative Osteopathy
400441.1 Professional Osteopathic Management
400439.2 Reflective Osteopathic Practice

Osteopathic Clinical Training

For registration as an Osteopath, students in the Bachelor of Applied Science (Osteopathic Studies) and Master of Osteopathy program are required to meet the minimum Clinical attendance and training requirements as defined by course accreditation. Osteopathic teaching clinics operate for 50 weeks per year and students are required to attend clinical sessions on a rotation basis outside the Autumn and Spring semester teaching periods to maintain a public service and provide continuity of patient care.

Osteopathic Practical Technique/ Skills Development and Clinical Training Sessions

The Bachelor of Applied Science (Osteopathic Studies) and Master of Osteopathy programs both incorporate the teaching of Osteopathic techniques/ skills and clinical training through physical contact between supervising clinicians, lecturers, students and patients of both genders and all backgrounds. This conduct is guided by protocols and codes of conduct and is a compulsory requirement of the course as it ensures that graduates are able to provide competent treatment to the public. Students entering the program must do so with an understanding that accommodations cannot be made in this area for any reason as it places the wellbeing and competent care of patients at risk.

Master of Primary Health Care

4569.2

The Master of Primary Health Care is offered to health-related professionals who hold a Bachelor degree or sufficient equivalent standing and plan to develop a balanced and holistic approach to their professional role within an integrated, dynamic and complex health system. The course provides an educational program that supports the development of visionary and pro-active professionals capable of providing leadership in the health care industry so enabling the creation of the supportive milieu that promotes health. Within the course, health care professionals will work within a framework that facilitates understanding of the relationship that exists between political acumen, capacity building and strong industry partnerships.

Study Mode
One year full-time or two years part-time in distance education mode. This course is also offered on campus in Hong Kong only.

Location

Campus	Attendance	Mode
Hawkesbury Campus	Part Time	External
Hawkesbury Campus	Full Time	External
Hong Kong	Part Time	Internal

Academic Credit and Advanced Standing
Advanced standing applications will be assessed in accordance with current UWS policy.

Admission
Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on admission to postgraduate courses is available on the Local Admissions section of the UWS website.

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

- * Completion of a bachelor degree.

All international applicants must meet the English language criterion.

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

Recommended Sequence

Full-time

Year 1

Session 1
400238.1 Policy, Power and Politics in Health Care Provision
400412.1 Primary Health Care and its Applications
400413.1 Context of Health Promotion
And one specialist unit

Session 2
400239.1 Contemporary Issues in Aged Care
400414.1 Leadership and Change
400775.1 Project Proposal (Primary Health Care)
And one specialist unit

Part-time

Session 1
400238.1 Policy, Power and Politics in Health Care Provision
400412.1 Primary Health Care and its Applications

Session 2
400413.1 Context of Health Promotion
And one specialist unit

Session 3
400239.1 Contemporary Issues in Aged Care
And one specialist unit

Session 4
400414.1 Leadership and Change
400775.1 Project Proposal (Primary Health Care)

Specialist Units
HC812A.1 Approaches to Epidemiology
400773.1 Mental Health for Communities
400240.1 Critical Perspectives on Health
400241.1 Supporting Aged Communities

Graduate Diploma in Primary Health Care

4570.2

The Graduate Diploma in Primary Health Care offers a postgraduate qualification to those working in health and allied areas who plan to further their understanding of health and inform their ways of working with individuals, groups and communities.

Study Mode
One year full-time, or one and a half years part-time, in distance education mode. The course is also offered on campus in Hong Kong only over one year part-time (three terms).

Location

Campus	Attendance	Mode
Hong Kong	Part Time	Internal
Hawkesbury Campus	Part Time	External
Hawkesbury Campus	Full Time	External

Academic Credit and Advanced Standing
Advanced standing applications will be assessed in accordance with current UWS policy.

Admission

Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on admission to postgraduate courses is available on the Local Admissions section of the UWS website.

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

- Completion of a bachelor degree; or
- Demonstration of sufficient (at least 3 years) employment and/or professional experience in a health service

All international applicants must meet the English language criterion.

Course Structure

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

Recommended Sequence

Full-time

Year 1

Session 1

400238.1 Policy, Power and Politics in Health Care Provision
400412.1 Primary Health Care and its Applications
And one specialist unit

Session 2

400239.1 Contemporary Issues in Aged Care
400413.1 Context of Health Promotion
And one specialist unit

Part-time

Session 1

400238.1 Policy, Power and Politics in Health Care Provision
400412.1 Primary Health Care and its Applications

Session 2

400413.1 Context of Health Promotion
And one specialist unit

Session 3

400239.1 Contemporary Issues in Aged Care
And one specialist unit

Specialist Units

HC812A.1 Approaches to Epidemiology
400773.1 Mental Health for Communities
400240.1 Critical Perspectives on Health
400241.1 Supporting Aged Communities

Graduate Diploma in Professional Computing

3512.2

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

Study Mode

Full-time over two sessions (one year), principally on Penrith campus. From time to time some units may only be offered at Campbelltown or Parramatta campuses.

Location

Campus	Attendance	Mode
Penrith Campus	Full Time	Internal

Accreditation

On satisfactory completion of this degree, students are eligible for admission to the Australian Computer Society as a Member.

Admission

Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on postgraduate courses is available on the Postgraduate Admissions section of the UWS website. Admission is restricted to graduates of the Bachelor of Technology (Information Technology Support) degree, or an equivalent para-professional computing or information technology bachelors degree.

Course Structure

Recommended Sequence

Full-time

Year 1

Autumn session
300125.2 Fundamentals of Computer Science
300144.2 Object Oriented Analysis
300160.2 Software Interface Design
300095.2 Computer Networks and Internets

Spring session
300103.1 Data Structures and Algorithms
300146.2 Object Oriented Design
300104.1 Database Design and Development
300085.2 Advanced Web Site Development

Master of Public Health

4571.1

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

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

Location

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

Academic Credit and Advanced Standing
Applications for advanced standing will be assessed in accordance with current UWS policy.

Admission
Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on admission to postgraduate courses is available on the Local Admissions section of the UWS website.

For admission students are required to have successfully completed an undergraduate degree, and have two years of health related workplace experience.

International applicants should contact UWS International for details on admission. Contact information for the International Office is available via the UWS website.

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

Recommended Sequence

Full-time

Year 1

Autumn session
400419.1 Community Development in Health
400417.1 Epidemiology and Quantitative Methods
400416.1 Public Health, Policy and Society
400421.1 Research Methods for Humanities and Social Sciences

Spring session
400422.1 Contemporary Issues in Public Health
400418.1 Health Advancement and Health Promotion
400420.1 Health Economics and Comparative Health Systems
One 10 credit point elective

Part-time

Year 1

Autumn session
400417.1 Epidemiology and Quantitative Methods
400416.1 Public Health, Policy and Society

Spring session
400418.1 Health Advancement and Health Promotion
One 10 credit point elective

Year 2

Autumn session
400419.1 Community Development in Health
400421.1 Research Methods for Humanities and Social Sciences

Spring session
400422.1 Contemporary Issues in Public Health
400420.1 Health Economics and Comparative Health Systems

Master of Public Health - Hong Kong

4516.2

This course is based on the Master of Public Health offered in Australia, however this version of the program is available only in Hong Kong.

This course has been developed in recognition that the agenda for public health in Hong Kong, as in Australia and internationally, is changing. The maintenance of effective and efficient health care systems remains a high priority. There is, however, a growing recognition of the importance of both global and local environmental threats (e.g. air pollution) and factors within the social environment (e.g. social inequity) that significantly impact on health status. It is increasingly recognised that the concept of 'health' itself is both complex and emergent, one that is as much, if not more, defined by socio-cultural and environmental factors as by traditional biomedical factors. This course, whilst providing 'traditional' public health skills, such as epidemiology, includes expanded specialist fields of knowledge and skills such as policy development, risk assessment, environmental management and change strategies to meet emerging challenges of contemporary practice.

Study Mode
Two years part-time. Enrolment for first year students is in Spring. First Year Commences with the units in the Spring session.

Location

Campus	Attendance	Mode
Hong Kong	Part Time	Internal

Academic Credit and Advanced Standing
Eligibility for advanced standing will be assessed by the course coordinator on an individual basis.

Admission
Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on admission to postgraduate course is available on the Local Admissions section of the UWS website.

Entry requirements for the course are possession of a bachelor's degree or equivalent and two years of work experience in a relevant field. Other factors may be considered at the discretion of the course coordinator.

Special Requirements
This version of the course is available in Hong Kong only. Local students should refer to the local Master of Public Health entry.

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

Recommended Sequence

Part-time

Year 1

Spring session
400416.1 Public Health, Policy and Society
400417.1 Epidemiology and Quantitative Methods

Year 2

Autumn session
400420.1 Health Economics and Comparative Health Systems
EH838A.1 Research Methods: Science in Context

Spring session
300395.1 Risk Assessment
400418.1 Health Advancement and Health Promotion

Year 3

Autumn session
400422.1 Contemporary Issues in Public Health
EH833A.1 Environmental Management

Graduate Diploma in Public Health

4572.1

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

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

Location

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

Academic Credit and Advanced Standing

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

Admission

Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on admission to postgraduate courses is available on the Local Admissions section of the UWS website.

For admission students are required to have successfully completed an undergraduate degree.

International applicants should contact UWS International for details on admission. Contact information for the International Office is available via the UWS website.

Course Structure

Qualification for this award requires the successful completion of 60 credit points including the units listed in the recommended sequence below, (all from 4571 MPH).

Recommended Sequence

400416.1 Public Health, Policy and Society
400417.1 Epidemiology and Quantitative Methods
400418.1 Health Advancement and Health Promotion
400419.1 Community Development in Health
400420.1 Health Economics and Comparative Health Systems
400421.1 Research Methods for Humanities and Social Sciences
400422.1 Contemporary Issues in Public Health

Graduate Certificate in Public Health

4573.1

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

Study Mode

One year part-time.

Location

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

Academic Credit and Advanced Standing

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

Admission

Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on admission to postgraduate courses is available on the Local Admissions section of the UWS website

Admission requirement is either successful completion of an undergraduate degree, or substantial (minimum three years) workplace experience, within the health sector. Many health professionals have trained outside the university system, eg, nurses and podiatrists, prior to transfer of training programs to the university sector. These professionals may have extensive experience, hold senior positions and have attained a number of certificate and diploma specialisations. In this situation only and where extensive work experience is evident, the coordinator will approve admission to the graduate certificate. Students may then progress to the graduate diploma or masters degree on completion of the graduate certificate units.

International applicants should contact UWS International for details on admission. Contact information for the International Office is available via the UWS website.

Course Structure

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

Recommended Sequence

Student may graduate with a Graduate Certificate in Public Health upon the successful completion of any four units (40 credit points) taken from the seven units listed, all from 4571 MPH:

400416.1 Public Health, Policy and Society
400417.1 Epidemiology and Quantitative Methods
400418.1 Health Advancement and Health Promotion
400419.1 Community Development in Health
400420.1 Health Economics and Comparative Health Systems

400421.1 Research Methods for Humanities and Social Sciences
400422.1 Contemporary Issues in Public Health

Master of Traditional Chinese Medicine

4614.2

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

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

Study Mode

The Master of TCM will require two years part-time study (80 credit points). An early exit route of a one and a half year Graduate Diploma of TCM (60 credit points) and a one year part-time Graduate Certificate of TCM (40 credit points) will also be available. The mode of study for the Master of Traditional Chinese Medicine is via intensive workshops and use of web-based resources. Each unit will consist of two intensive two-day workshops, one at the beginning of semester and one at the end. These workshops are supported with on-line material.

Location

Campus	Attendance	Mode
Bankstown Campus	Part Time	Internal

Academic Credit and Advanced Standing

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

Admission

Applications for the course must be made through the Universities Admissions Centre (UAC). Further information on admission to postgraduate courses is available on the Local Admissions section of the UWS website.

Admission to the Master of Traditional Chinese Medicine or Master of Acupuncture requires:

Either an undergraduate qualification in Traditional Chinese Medicine (both acupuncture and Chinese herbal medicine for those applying for the Master of TCM) or acupuncture - a minimum of a three-year diploma that meets the requirements set out under the Australian Qualification Guidelines, or

For applicants not holding an undergraduate qualification in Traditional Chinese Medicine or acupuncture, current membership of a professional association representing TCM or acupuncture practitioners, and an interview is required. These applications will be reviewed on an indivdual basis. In all cases consideration will also be given to prior learning and professional experience.

Course Structure

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

Recommended Sequence

Part-time

Year 1

1H
400567.1 Evidence Based Practice in Chinese Medicine 1
Specialist Unit 1

2H
400568.1 Evidence Based Practice in Chinese Medicine 2
Specialist Unit 2

Year 2

1H
Specialist Unit 3
Specialist Unit 4

2H
Specialist Unit 5
Specialist Unit 6

Full-Time (available from 2007 onwards subject to demand)

Year 1

1H
400567.1 Evidence Based Practice in Chinese Medicine 1
Specialist Unit 1
Specialist Unit 2

Specialist Unit 3

2H

400568.1 Evidence Based Practice in Chinese Medicine 2
Specialist Unit 4
Specialist Unit 5
Specialist Unit 6

Specialist Units

Students will be required to complete six specialist units from the following pool. Please note: Not all units will be offered each year - refer to the published timetable to confirm availability.

400569.1 Pharmacology of Chinese Medicines
400570.2 Women's Health in Chinese Medicine 1
400571.2 Women's Health in Chinese Medicine 2
400572.1 Dermatology in Chinese Medicine 1
400573.1 Dermatology in Chinese Medicine 2
400574.1 Musculoskeletal Health in Chinese Medicine 1
400575.1 Musculoskeletal Health in Chinese Medicine 2
400576.1 Chinese Medicine Classics
400578.1 Advanced Acupuncture
400687.1 Chinese Medicine Specialities 1
400688.1 Mental Health in Chinese Medicine
400689.1 Neurological Disorders in Chinese Medicine

Graduate Diploma Exit Point

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

400567.1 Evidence Based Practice in Chinese Medicine 1
400568.1 Evidence Based Practice in Chinese Medicine 2
Plus four Specialist Units (40 credit points)

Graduate Certificate Exit Point

Students may exit with a Graduate Certificate in Traditional Chinese Medicine upon the successful completion of any four units (40 credit points) from the Master of Traditional Chinese Medicine Award.

Graduate Diploma in Traditional Chinese Medicine

4615.2

Exit point only. Refer to Master of Traditional Chinese Medicine, course code 4614.

Graduate Certificate in Traditional Chinese Medicine

4616.2

Exit point only. Refer to Master of Traditional Chinese Medicine, course code 4614.

Units

400578.1 Advanced Acupuncture

Credit Points 10 **Level** 7

Assumed Knowledge

Equivalent to undergraduate studies in acupuncture.

This is a practical unit that helps strengthen graduate acupuncture skills in the management of a range of illnesses. This unit will deepen the practitioner's understanding of the ancient acupuncture theories and techniques and their application in contemporary practice. Practitioners will extend their understanding of different theoretical approaches in the design of acupuncture point prescriptions and examine the strengths and weaknesses of each approach. Evidence in support of acupuncture practice will be explored.

300172.1 Advanced Control Systems

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge of difference equations and Z-transforms. Experience in use of computer aided design software such as Matlab.

This unit introduces the advanced concepts of control engineering. It covers traditional and contemporary design and analysis techniques; and the concepts involved in designing continuous-time and digital controllers. There is considerable use of MATLAB in the unit.

300173.1 Advanced Data Networks

Credit Points 10 **Level** 7

Assumed Knowledge

Communication Systems / Digital Communication

This unit covers all major network technologies: asynchronous transfer mode (ATM), Internet, and telephony. Essential networking topics such as protocol layering, multiple access, switching, scheduling, routing, congestion control, error and flow control, and network security are covered in detail. An engineering approach is taken to provide insight into network design.

400433.2 Advanced Diagnostic Imaging for Osteopaths

Credit Points 10 **Level** 7

Prerequisite

400269.1 - Diagnostic Imaging

This unit will review basic principles in advanced diagnostic imaging techniques which include Magnetic Resonance Imaging (MRI), Computer Tomography (CT), Angiography, Nuclear medicine and Ultrasound. Imaging of areas of the body relevant to Osteopathic clinical practice to be reviewed will include head, spine, abdomen, thorax, pelvis and extremities.

300174.1 Advanced Digital Systems

Credit Points 10 **Level** 7

Assumed Knowledge

Electronics

This unit extends work on modern digital design techniques and the process of creating a digital circuits, from design specifications to the implementation of more complex digital circuits and systems. Topics include: a review of logic design techniques; hardware description languages (HDL); digital circuit modelling using an HDL; logic simulations; state-of-the-art digital circuit design tools; programmable logic devices; digital circuit implementation rapid circuit prototyping; and integration of HDL, a digital circuit design tool and programmable logic devices in a single design process.

300601.1 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 and 300204 - Special Electrical Machines

The subject covers various types of electrical motors and drive systems, their applications and control. The unit aims to introduce an advanced study of electrical machines and drives. It also covers application considerations and modern developments in high performance drive systems. This course covers various types of the speed control, the starting, the braking and the dynamics of different electrical machines and drives.

300214.1 Advanced Electromagnetics

Credit Points 10 **Level** 7

Assumed Knowledge

Fundamental knowledge of Electromagnetics. Understanding of switching devices. Basic circuit theory and measurement. Basic electronics and signals. Knowledge of internet technologies and on line learning sources.

This unit covers fundamentals of EMC/EMI, electromagnetic coupling and various EMC standards and measurement techniques. It also covers conducted and radiated emissions, screening, shielding and filtering techniques.

400726.1 Advanced Herbal Medicine and Nutrition

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge of Western Herbal Medicine, Naturopathic Nutrition and Herbal Pharmacognosy to the level of the third year of the Bachelor of Applied Science or an equivalent are required for the student to understand and apply the information and concepts developed in this unit.

Special Requirements

Available only to students enrolled in the Graduate Diploma in Naturopathy. Criminal record check required. Child protection check required. Senior first aid certificate (Workcover accredited) required.

Advanced Herbal Medicine and Nutrition has two primary foci. The first focus is on improving skills and knowledge to effectively administer both herbal and nutritional treatment for people with specific needs, such as found in pregnancy, infancy, puberty, menopause and mature age. The second focus is upon the skills required to produce various herbal preparations and evaluate the suitability and quality of individually and commercially manufactured herbal preparations. In addition you will be able to describe and debate the impact of regulatory issues relating to the practice of naturopathy, extemporaneous production and dispensing, and commercial manufacture and supply of complementary medicines.

400229.1 Advanced Mental Health Nursing Clinical Practice 1

Credit Points 10 **Level** 7

Assumed Knowledge

Students are required to complete to Graduate Diploma level or equivalent, and be experienced practitioners prior to commencing this unit.

In this unit students undertake supervised advanced practice clinical experience in a mental health setting. A university approved clinical supervision contract is negotiated within the student's workplace. Students undertake supervised advanced practice assessment, treatment planning and provision of care for clients. This unit focuses on assessment and clinical decision-making.

400231.1 Advanced Mental Health Nursing Clinical Practice 2

Credit Points 10 **Level** 7

Assumed Knowledge

Students are required to complete to Graduate Diploma level or equivalent, and be experienced practitioners prior to commencing this unit.

Prerequisite

400228.1 - Assessment for Advanced Practice Mental Health Nurses AND **400229.1** - Advanced Mental Health Nursing Clinical Practice 1

In this unit students undertake supervised advanced practice clinical experience in a mental health setting. A university approved clinical supervision contract is negotiated within the student's workplace. Students undertake supervised assessment, treatment planning and provision of care for clients. This unit focuses on ongoing treatment of clients.

400728.1 Advanced Naturopathic Practice 1

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge of Western Herbal Medicine, Naturopathic Nutrition, Clinical Diagnosis, Pathophysiology and Naturopathic Practice to the level of the thrid year of course 4597 or equivalent, is considered essential to be able to complete this unit.

Special Requirements

Available only to students enrolled in the Graduate Diploma in Naturopathy. Crimninal record check required Child protection check required Senior first aid certificate (Workcover accredited) required.

The aim of Advanced Naturopathic Practice 1 is to produce competent naturopathic clinicians capable of independent clinical decision making in the context of patient care. Students will be able to integrate and apply knowledge and skills in a supervised clinical setting involving both interacting with patients and discussing your observations and decision s in clinical tutorials. Students having completed these units will be able to effectively manage a wide range of clinical problems through applying a patient-centred approach

to diagnosis and naturopathic treatment. Self and group appraisal of decision making and performance will be an integral part of developing this outcome.

400729.1 Advanced Naturopathic Practice 2

Credit Points 10 **Level** 7

Prerequisite

400726.1 - Advanced Herbal Medicine and Nutrition AND **400727.1** - Naturopathic Diagnosis AND **400728.1** - Advanced Naturopathic Practice 1

Special Requirements

This unit is core in the Graduate Diploma in Naturopathy. Criminal record check required. Child protection check required. Senior first aid certificate (Workcover accredited) required.

The aim of Advanced Naturopathic Practice 2 is to produce competent naturopathic clinicians capable of independent clinical decision making in the context of ongoing patient care. Students will be able to integrate and apply knowledge and skills in a supervised clinical setting involving both interacting with patients and discussing observations and decisions in clinical tutorials. Emphasis is on higher order clinical reasoning and developing and employing outcome measures in the context of ongoing patient management.

300176.1 Advanced Robotics

Credit Points 10 **Level** 7

Assumed Knowledge

Students should have basic knowledge in mechanics.

This unit develops an understanding of the advanced concepts involved in Robotics. The kinematics, dynamics, control and sensing aspects in robotics will be studied. In addition, the concepts of artificial intelligence (AI) and their applications in robotics will also be investigated. There will be a considerable use of MATLAB in the unit.

300490.1 Advanced Thesis Preparation (STE)

Credit Points 20 **Level** 7

The main focus of this unit is on understanding how a research problem is identified, how literature in a research area is critically evaluated and how a comprehensive research proposal is formulated. The unit is primarily designed to assess the research readiness of the students. The overarching goal is to develop a critical spirit of enquiry by providing a structured and systematic way of thinking about writing a comprehensive research proposal. The unit also develops an appreciation of ethical issues in research in higher degrees. Students engage in a structured literature review to assist in selecting an appropriate research topic. Key assessment criteria include writing a critical evaluation of research papers from the literature within a chosen topic, writing and presenting a defensible research proposal.

300140.1 Advanced Topics in Distributed Systems

Credit Points 10 **Level** 7

Assumed Knowledge

- At least an undergraduate foundation course in Data Communications and Networking that includes coverage of the TCP/IP protocol suite. - An undergraduate foundation course in Systems Programming in C, or alternatively an undergraduate foundation course in Operating Systems that includes programming in C -A sound understanding of the object oriented paradigm and some experience in object oriented programming preferably in C++ or Java

Equivalent Units

J7041.1 Distributed Processing

Special Requirements

Restriction to students enrolled in postgraduate or honours courses owned by The College of Health and Science.

This unit covers advanced topics in the field of distributed systems theory and practice. Topics will change from session to session but will in general address issues of core distributed systems theory, distributed systems design and implementation techniques, and current and emerging distributed technologies and architectures. Indicative topics include: distributed systems architectures, particularly those based on distributed object technologies; distributed systems performance analysis; distributed systems management; transaction control in multiple resource manager environments; distributed data and algorithms; inter-process communication techniques; distributed file systems; distributed naming and directory services; and reliability in distributed systems.

300252.1 Advanced Topics in Networking

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge of fundamentals of computer networking and data communications. In particular, a good understanding of the TCP/IP protocol suite and the OSI model.

Special Requirements

Students must be enrolled in a Masters-level course.

This unit discusses emerging network technologies. The advanced features of networked systems and the Internet that are based on these technologies are also presented. The unit provides students with an in-depth understanding of relevant protocols, the emerging standards, and standards organisations. Students are also introduced to some current key research issues.

300085.2 Advanced Web Site Development

Credit Points 10 **Level** 3

Assumed Knowledge

Basic programming principles and control structures; basic file management and PC operation including how to access the internet; basic HTML, JavaScripting, ASP and use of session variables.

Equivalent Units

J3752.

This unit introduces students to the design, implementation and operation of internet and intranet web sites. It includes the design, development and implementations of server-side applications, the use of multi-media and human interaction on the browser side, the management and operation of internet/ intranet systems and the interaction of these information systems with society and the corporate world. Security, access rights, financial transactions and legal issues are also covered. A major component of this unit is working with server/browser applications in ASP or similar programming environment and the development of web based information systems and methodologies. This unit is heavily orientated to practical experience in developing the theoretical concepts.

400547.1 Aged Care Management Development Project

Credit Points 20 **Level** 7

Assumed Knowledge

The skills and knowledge developed from the six units (60 credit points) of the course is essential to the successful completion of the unit.

Prerequisite

400414.1 - Leadership and Change AND **400238.1** - Policy, Power and Politics in Health Care Provision AND **400544.1** - Resources Management in Aged Care AND **400546.1** - Quality Management in Aged Care

This unit is designed for students to identify and investigate a unit area or professional practice issue of interest or concern with the outcome being to inform practice on a management or educational perspective. The student will examine issues raised by presenting a comprehensive literature review articulating the professional practice implications for the contemporary aged care context

EH827A.1 Air Quality Assessment and Management (PG)

Credit Points 10 **Level** 7

Special Requirements

This unit is restricted to the following courses: 3602, 3603, 3604, 3605, 3606, 3607 (current courses) 475E, 475A, 456S, 456A, 473A, 3599, 3600, 3601, 3596, 3597, 3598, 3568 (legacy courses)

This unit examines atmospheric and climatological factors as determinants of air quality in the Sydney Basin. It also investigates the nature, sources and effects of specific air pollutants; strategies and methodologies for air quality assessment, modelling and management. It also provides an introduction to global atmospheric problems.

200499.1 Alternative Solutions for Bushfire Prone Areas

Credit Points 10 **Level** 7

Assumed Knowledge

Students need to have prior knowledge of bushfire behaviour, planning, building and bushfire fighting and emergency management .

This unit describes the processes and techniques available to develop alternative approaches and solutions to planning and building in bushfire prone areas.

400200.1 Applied Nursing Research

Credit Points 10 **Level** 7

Assumed Knowledge

A basic knowledge of research methods at undergraduate level or equivalent is required.

Research is a necessary undertaking toward the continued development of nursing knowledge as well as personal professional development. The aim of this unit is to both broaden and deepen students' understanding of research methods and to extend their ability to discuss, appraise the work of others and participate in their own research.

HC812A.1 Approaches to Epidemiology

Credit Points 10 **Level** 7

This unit will examine the principles, strategies and activities associated with epidemiology and the contribution that epidemiology makes to the

understanding of health and illness of individuals, families and communities. Consideration of the part of social epidemiology in supplementing classical approaches is included, as is consideration of epidemiology in relation to health service delivery and planning.

EY810A.1 Aquatic Resource Management (V1)

Credit Points 10 **Level** 7

A study of freshwater, brackish and marine systems and their management for biodiversity maintenance and sustainable use. This unit will cover how science is used to investigate aquatic ecosystems and how the interpretation of the function of aquatic ecosystems is dependent on experimental design and sampling. The effects of human disturbance and impacts in aquatic ecosystems, including the logic behind the detection of environmental impacts, will be covered. The unit will conclude with an emphasis on ecologically sustainable development in aquatic ecosystems.

400228.1 Assessment for Advanced Practice Mental Health Nurses

Credit Points 10 **Level** 7

Assumed Knowledge

Students are required to complete to Graduate Diploma level or equivalent, and be experienced practitioners prior to commencing this unit.

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.

300393.1 Auditing the Management of Occupational Health & Safety

Credit Points 10 **Level** 7

Equivalent Units

EH846A.1 Auditing the Management of Occupational Safety & Health

The curriculum for this unit is designed to extend students at the postgraduate level, while giving them as much practical information and experience in the auditing and the management of OHS as possible. Postgraduate students should be involved in higher order learning activities which are greater than those to which undergraduates are exposed. They should, for example, be able to think critically and evaluate theories, information, strategies and policies. The curriculum, particularly the assessment tasks, reflects this learning direction. This approach can be very demanding, but students may find it the most useful experience of their professional life. Exchange of ideas and knowledge is an excellent exercise which may also help to stimulate people with whom they interact in their working life to embrace the concepts and practices of auditing and managing OHS.

400230.1 Biological Aspects of Mental Illness for Advanced Practice

Credit Points 10 **Level** 7

Assumed Knowledge

Students are required to complete to Graduate Diploma level or equivalent, and be experienced practitioners prior to commencing this unit.

This unit examines the pathophysiological processes associated with mental ill health and illness including sensorineural, endocrine and immune systems, genetics, homeostasis, nutrition, stress and the aging process. It is designed to enhance knowledge, interpretive and research skills required by mental health nurse practitioners when assessing and managing clients who have mental health problems in various health care settings.

EN808A.1 Building Engineering

Credit Points 10 **Level** 7

Objectives: to provide candidates with an appreciation of the factors that contribute to engineering decisions in total building design, and the evaluation of failure modes in buildings. Topics: soil mechanics, technology, failure theories, soil pedology, flow of water in soils, natural and stabilised soils. Disposal of surface; of water, subsoil water from sites. Flood water retention and removal. Structural concepts, loading patterns, properties of materials construction systems, evaluation and acceptance of materials, testing techniques, composite components. Altering the mechanical properties of construction materials in manufacture or in fatigue situations. Successful performance of buildings, failure in buildings.

PE806A.1 Building Fire Services

Credit Points 10 **Level** 7

The unit develops the student's understanding of various types of building services and fire safety systems, their types and their application and introduces methods of applying recommendations of fire engineering assessments with respect to building services and systems.

200458.1 Building in Bushfire Prone Areas

Credit Points 10 **Level** 7

This unit describes the basis for the design of buildings to withstand bushfire attack, the measures that can be incorporated into building design to achieve this and the legislative building requirements.

BG812A.1 Building Studies

Credit Points 10 **Level** 7

Objectives: building studies seeks to analyse in depth the factors that influence the building industry. Students will be required to critically evaluate these factors. Topics: advances in both materials technology and construction techniques. Fire engineering and fire safety considerations including the health and amenity of building design and regulation. The philosophy of conservation and its application to building, cultural significance as an issue, energy conservation as an issue. Building services, regulation, impact on design, construction and maintenance requirements. Principles of building engineering related to the construction industry. Construction management from personnel through to scheduling and time management. Local government and State government administration and their effect on the building industry. Royal commissions and their impact on building law. Industrial law and industrial relations, contract law and planning law and the regulation of building activities. Building economics from estimating and quantity surveying to building macro economics. Development management, inception of reality. The relationship between building owners and occupiers on the performance and maintenance of buildings.

200327.1 Built Environment Project

Credit Points 10 **Level** 7

The unit will help students to solve problems in a focused professional context. The skills that are acquired can be applied to a wide range of issues in the construction industry since the method of problem solving does not change overly with the problem. The unit requires the student to identify a problem, review current literature, critically appraise the literature, develop a research question, prepare a research plan, analyse the research findings and communicate the findings and recommendations.

200328.1 Built Environment Research Project

Credit Points 20 **Level** 7

The unit will help students to solve problems in a focused professional context. The skills that are acquired can be applied to a wide range of issues in the construction industry since the method of problem solving does not change overly with the problem. The unit requires the student to identify a problem, review current literature, critically appraise the literature, develop a research question, prepare a research plan, analyse the research findings and communicate the findings and recommendations.

200457.1 Bushfire Behaviour

Credit Points 10 **Level** 7

This unit describes the factors affecting bushfire behaviour and the models which are used to predict bushfire behaviour and the resultant hazard.

200500.1 Bushfire Fighting

Credit Points 10 **Level** 7

This unit describes the techniques, hardward and extinguishing agents used to fight and control bushfires and focuses on the logistics involved in ensuring safe, efficient and effective control.

300444.1 Business Process Modelling and Management

Credit Points 10 **Level** 7

Assumed Knowledge

The student should have an understanding of the role of management in an organisation.

Equivalent Units

300161.1 Business Process Reengineering

Special Requirements

Students must be enrolled in a Masters-level course.

Provides a critical study from current research of business process modelling (BPM) and management. Enterprise business processes and challenges of implementing them; transition of Business Process Reengineering; best practices and excellence in business processes; business process modelling languages and management software and the role of business processes for competitive advantages will be addressed. Emphasis will be given to Business Process Outsourcing and considerations for implementing it.

400207.1 Childhood - Child and Family Health Nursing

Credit Points 10 **Level** 7

Assumed Knowledge

Students require basic knowledge of infant and child health at undergraduate level, augmented with clinical experience as a general registered nurse.

This unit assists the child and family nurse to understand the growth and development of children from birth to five years of age paying particular attention to their milestones as they apply to gross and fine motor skills, language and cognitive ability and socialisation. Issues related to nutritional requirements including breastfeeding will be highlighted. Assessment procedures are addressed as well as management strategies for childhood issues that challenge parents.

400576.1 Chinese Medicine Classics

Credit Points 10 **Level** 7

Assumed Knowledge

Equivalent to undergraduate training in TCM including Chinese Herbal Medicine (Materia Medica and Medicinal Formulae) and Chinese medicine classics including Shang Han Lun (Treatise on Cold Induced Disorders).

This unit will explore in detail the applications of one of the classic texts of Chinese medicine literature, the Shang Han Lun (Treatise of Cold Induced Disorders), in the treatment of a range of illnesses. The unit will cover the essential features of diseases of the 'six channels' (stages of pathogenesis) and modifications and combinations of key medicinal formulae.

400687.1 Chinese Medicine Specialities 1

Credit Points 10 **Level** 7

This unit will enable practitioners to extend their understanding of the Traditional Chinese Medicine (TCM) diagnosis and management of a range of gastrointestinal and paediatric disorders. A feature of this unit is the integration of TCM and western medical approaches. Treatment will focus on acupuncture with common patent Chinese herbal medicine treatments included.

400426.2 Clinical Osteopathic Medicine 1

Credit Points 10 **Level** 7

Assumed Knowledge

400263 Osteopathic Clinical Studies 4 400266 Osteopathic Clinical Studies 5

Clinical Osteopathic Medicine 1 allows the students to integrate their professional osteopathic skills learnt in the undergraduate course to the modalities of Functional Technique, Myofascial Release, Counterstrain and Mobilisation of the nervous system, and to further their abilities as practitioners to select and develop competence in the performance of treatment techniques, using examples commonly seen in practice.

400430.1 Clinical Osteopathic Medicine 2

Credit Points 10 **Level** 7

Prerequisite

400426.1 - Clinical Osteopathic Medicine 1 AND **400427.1** - Introduction to Osteopathic Clinical Practice

Corequisite

400431.1 - Diagnostic Reasoning in Osteopathic Practice

Equivalent Units

400004 Systemic Osteopathy

Special Requirements

To undertake this unit, students must comply with the following special requirements: Completion of a Prohibited Persons Declaration; Criminal Record Check Clearance; Students must possess a current, Workcover Authority approved First Aid Certificate; Provide evidence of compliance with the occupational screening and immunisation policy of NSW Health.

This unit develops the principles and practice of osteopathic medicine with regard to both systemic and visceral conditions. Also covered in this unit is an understanding of practical knowledge of osteopathy in the cranial field. A broad cross-section of clinical presentations that present in Osteopathic health care practice is reviewed.

400434.1 Clinical Osteopathic Medicine 3

Credit Points 10 **Level** 7

Prerequisite

400430.1 - Clinical Osteopathic Medicine 2 AND **400431.1** - Diagnostic Reasoning in Osteopathic Practice

Corequisite

400435.1 - Treatment Planning in Osteopathic Practice

Incompatible Units

400000 Fascial Osteopathic Approaches.

Special Requirements

To undertake this unit, students must comply with the following special requirements: Completion of a Prohibited Persons Declaration; Criminal Record Check Clearance; Students must possess a current, Workcover Authority approved First Aid Certificate; Provide evidence of compliance with the occupational screening and immunisation policy of NSW Health.

This unit emphasizes to the student the clinical aspects and health issues pertaining to the specialties of Gerontology, and Chronic Pain and Psychiatry, that

may present on Osteopathic health care practice. Students will further develop skills and understanding in the differential diagnosis and Osteopathic clinical management of these conditions.

400438.1 Clinical Osteopathic Medicine 4

Credit Points 10 **Level** 7

Prerequisite

400434.1 - Clinical Osteopathic Medicine 3 AND **400435.1** - Treatment Planning in Osteopathic Practice

Corequisite

400439.1 - Reflective Osteopathic Practice

Incompatible Units

400007 Osteopathy in the Cranial Field; 400004 Systemic Osteopathy

Special Requirements

To undertake this unit, students must comply with the following special requirements: Completion of a Prohibited Persons Declaration; Criminal Record Check Clearance; Students must possess a current, Workcover Authority approved First Aid Certificate; Provide evidence of compliance with the occupational screening and immunisation policy of NSW Health.

This unit develops students knowledge of pathology and clinical diagnosis and management in the fields of Obstetrics, Gynaecology and Paediatrics. Common Obstetric, Gynaecological and Paediatric conditions are presented and aspects relating to medical and osteopathic treatment are discussed. Particular emphasis in this unit is given to history taking, and assessment of these conditions, with the intention to refer to the appropriate health care professional.

400724.1 Clinical Teaching and Professional Development

Credit Points 10 **Level** 7

This unit prepares clinicians for their role in highlighting key priorities for teaching and learning in their organisations, and for planning and providing appropriate and relevant teaching and learning experiences that build the capacity of colleagues and staff. Theoretically informed, experiential strategies will enable students to explore the potential that clinical teaching has to transform practices and workplaces.

300521.1 Communications Systems (PG)

Credit Points 10 **Level** 7

Assumed Knowledge

Graduate of a recognised engineering or industrial design degree or equivalent.

This unit will be available from 2007. This unit covers new developments in satellite communications technology and the underlying principles of the transmission of radio signals via satellites. The emphasis in the unit is on digital transmission techniques.

400419.1 Community Development in Health

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course – course types 01, 02, 03, 04, 05, 06, 07, 11, 12, or 42.

The Unit examines the values, principles and processes of community development, and provides the knowledge necessary to successfully initiate and manage a community development project.

400079.2 Complications of Labour, Birth and Newborn

Credit Points 10 **Level** 7

This unit provides students with an in depth knowledge of the complications that may arise during labour, birth and the newborn period. Emphasis will be placed on the biological and physiological aspects of such complications. The unit also integrates psychological and cultural aspects relating to a woman experiencing a complex labour and birth. The role of the midwife in providing holistic woman centred care is an important component of the unit, as any complications that arise will have an impact on the management of labour, birth and the newborn period.

400078.2 Complications of Pregnancy and the Postnatal Period

Credit Points 10 **Level** 7

This unit provides students with an in depth knowledge of the complications that may arise during pregnancy and in the postnatal period. Emphasis will be placed on the biological and physiological aspects of such complications. The unit also integrates psychosocial and cultural aspects relating to a woman experiencing a complex pregnancy or puerperium. The unit demonstrates the role of the midwife in maintaining a partnership in care even when pregnancy and the postnatal period are complex.

300095.2 Computer Networks and Internets

Credit Points 10 **Level** 3

Prerequisite

300094.1 - Computer Networking Fundamentals OR 300086.1 - Applied Data Communications and Networking

Special Requirements

This unit is offered at an advanced level and students need to have a good knowledge in fundamentals of data communications, computer networking and basic knowledge of programming in C++ language to successfully complete the unit.

This unit provides students with an in-depth understanding of the applications of computer networks and the concept of internetworking through the TCP/IP suite of protocols. Some of the network security threats along with their appropriate counter measures are also discussed. The main focus of the unit is on communication and network devices.

300238.1 Computing Research Project A

Credit Points 10 **Level** 7

Assumed Knowledge

Fundamentals of software, networking or information systems management

Equivalent Units

54919.1 Computing Project A

Special Requirements

Students must be enrolled in a Masters-level course.

This unit entails a substantial investigation and practical work on a topic in an area of current research interest in computing and information technology that is relevant to candidates' professional and intellectual development. Candidates are encouraged to select topics they envisage to be of value to their future careers. Candidates undertake individual project-based study under guidance of a project supervisor.

300239.1 Computing Research Project B

Credit Points 10 **Level** 7

Assumed Knowledge

Fundamentals of software, networking, or information systems management

Equivalent Units

54920.1 Computing Project B

Special Requirements

Students must be enrolled in a Masters-level course.

This unit entails a substantial investigation and practical work on a topic in an area of current research interest in computing and information technology that is relevant to candidates' professional and intellectual development. Candidates are encouraged to select topics they envisage to be of value to their future careers. Candidates undertake individual project-based study under guidance of a project supervisor.

88131.1 Concrete Structures (PG)

Credit Points 10 **Level** 7

Assumed Knowledge

Students must have sound knowledge in engineering mechanics and statics at an intermediate level.

This unit covers the elements of structural behaviour and design with reinforced and pre-stressed concrete. Students will learn to analyse the section capacity of reinforced concrete beams, slabs and columns and design simple suspended structures. The unit places a strong emphasis on the process of structural design.

51286.1 Contemporary Engineering Organisation and Management Practice

Credit Points 10 **Level** 7

This unit gives an overview of contemporary engineering management philosophies and practices to engineers integrating globalisation, quality, technology, people and management systems. The main emphasis is on contemporary issues. The aim is to facilitate a smooth transition of engineers into management roles and to provide necessary competencies for successful performance in engineer-manager roles. The unit will prepare engineers/ scientific personnel for management careers in the twenty-first century. Topics include: changing roles of engineers and managers, factors influencing the transition of engineers into management roles, strategies for managing transitions, managing engineering-based organisations and skilled/technical professionals, planning and control systems, decision-making and information systems, team building and group dynamics, motivation of engineers/specialists and/or scientific professionals, interpersonal skills and negotiation skills, communication skills, managing change, human factors engineering, and occupational health and safety issues.

400239.1 Contemporary Issues in Aged Care

Credit Points 10 **Level** 7

Equivalent Units

HC805A Contemporary Issues in Aged Care.

The conceptual framework for this unit supports the philosophy that old age carries its own meaning and complements other phases of the lifespan. Being able to live in a way that is satisfying to the older person and their family unit, whatever the context, adds to the meaningfulness of the living that has already been completed. This philosophy supports the view that health and other social services should be offered in ways that take into account the expressed needs of older people and their families or guardians, through their direct involvement in planning and monitoring of service access and delivery. In this respect, the conceptual framework is based on the principles of primary health care, which emphasises the view that health care services need to support the health and well-being of older people; create opportunities for them to live meaningfully in old age; should respect the humanity of each person, address individual health care needs, preferences and perspectives and bring about processes of change that assist older people in establishing meaning for their lives.

400425.1 Contemporary Issues in Health and Health Management

Credit Points 10 **Level** 7

Equivalent Units

E7313, Contemporary Issues in Health Services

Special Requirements

Students must be enrolled in a postgraduate course – course types 01, 02, 03, 04, 05, 06, 07, 11, 12, or 42.

In this unit, students will utilise skills gained in the course to assess and provide leadership for key issues in health services management, eg, corporate and clinical governance, management of multidisciplinary teams, risk management and community consultations and collaborations. The unit is designed to enable students to critically explore and analyse current issues and developments, of importance, in health services and health services management. The issues for exploration will change over time in line with contemporary developments within the sector.

400422.1 Contemporary Issues in Public Health

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate course to study this unit.

Through a series of contemporary case studies, students are introduced to a range of public health issues and practices. These may be studied in the areas of population inequalities in health, environmental health, communicable diseases, and chronic diseases. The topics may change for each cohort of students.

400220.1 Contemporary Professional Practice in Mental Health Nursing

Credit Points 10 **Level** 7

Assumed Knowledge

Students are required to be registered nurses with a basic knowledge of mental health, mental illness, and assessment processes, augmented with experience in mental health settings.

Professional practice in mental health nursing is constantly evolving to meet the changing social, political and legal requirements of new perspectives on mental health. These changing requirements include changes to social and political understandings of mental illness and people with mental illness. There has been a changing emphasis in relation to health promotion and education; relationships between consumer/client and health service provider, and between government and non-government agencies. Mental health nurses thus face challenges to develop practice that is congruent with the context of these changing requirements.

400413.1 Context of Health Promotion

Credit Points 10 **Level** 7

The challenge for health professionals 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 health care practice.

EH841A.1 Critical Incident Analysis

Credit Points 10 **Level** 7

Special Requirements

This unit is restricted to the following courses: 3602, 3603, 3604, 3605, 3606, 3607 (current courses) 475E, 475A, 456S, 456A, 473A, 3599, 3600, 3601, 3596, 3597, 3598, 3568 (legacy courses)

The aim of the unit is to provide students with a comprehensive understanding of the nature of incident causation in the occupational environment. In order to reduce the social and economic costs of occupational accidents, students need to understand the complex multi-factorial causation of occupational incidents. This

is done through an examination of multiple models of occupational incident causation. The unit further aims to provide a range of methods for investigating and analysing occupational incidents. The final aim of the unit is to provide a framework for critical incident prevention grounded in the theoretical basis of incident causation.

400240.1 Critical Perspectives on Health

Credit Points 10 **Level** 7

Equivalent Units

NU804A Critical Perspectives in Health

Traditionally, approaches to understanding health and illness in European-based societies are based on a biomedical model. This model has become familiar in non-European cultures too, as a result of the intellectual and economic imperialism of western societies, assisted by agencies such as the World Health Organisation and the World Bank. More recently, approaches to understanding health and illness de-emphasise a biological focus and instead stress the psychosocial nature of the experience of illness and the social and economic determinants of health. As a part of exploring this social dimension in health, there has been considerable interest in the question of how one specific aspect of social relations, that of power, impacts on people's health and on their potential for health. Thus, it is a consideration of the social nature of health and, more specifically, the exploration of power relations, which provides the basis and structure for the content of this unit. This unit considers: Social theories and how they provide diverse perspectives on and contribute to an understanding of health and illness; and the centrality of power relations in the health of individuals and populations.

300103.1 Data Structures and Algorithms

Credit Points 10 **Level** 2

Prerequisite

300156.1 - Programming Principles 2 OR **300125.1** - Fundamentals of Computer Science

Equivalent Units

J2741.1 Data Structures & File Organisations or 14906.1/14945.1 Data Structures

This unit introduces students to fundamental data structures and algorithms used in computing. The material covered forms the basis for further studies in programming and software engineering in later units. The unit focuses on the ideas of data abstraction, object-oriented programming, and software reuse. Issues relating to computational complexity of algorithms are addressed throughout the session. Topics covered include: the fundamental abstract data types (lists, stacks, queues, trees, hash tables, graphs); recursion; complexity of algorithms; internal and external sorting and searching algorithms; file structures; and B trees.

300104.1 Database Design and Development

Credit Points 10 **Level** 2

Assumed Knowledge

Knowledge of entity-relationship modelling and one programming language.

The main purpose of this unit is to provide students with an opportunity to gain a basic knowledge of database design and development including data modeling methods and techniques and database implementation using a database management system

400572.1 Dermatology in Chinese Medicine 1

Credit Points 10 **Level** 7

Assumed Knowledge

Equivalent to undergraduate training in TCM.

This unit along with Dermatology in Chinese Medicine 2 will enable practitioners to develop an in-depth understanding of Traditional Chinese Medicine (TCM) diagnosis and management of a wide range of skin diseases using acupuncture and Chinese herbal medicine. This unit includes orthodox medical diagnosis and management of common skin disorders and the integration of this with TCM theory, diagnosis and management. Dermatology in Chinese Medicine 1 and 2 together provide a strong specialist clinical focus on the management of skin disorders with Chinese medicine.

400573.1 Dermatology in Chinese Medicine 2

Credit Points 10 **Level** 7

Assumed Knowledge

Equivalent to undergraduate training in TCM.

This unit extends students' knowledge and understanding developed in Dermatology in Chinese Medicine 1. The focus of this unit includes the orthodox medical diagnosis and management of common and systemic skin disorders and the integration of TCM theory, diagnosis and management. Dermatology in Chinese Medicine 1 and 2 together provide a strong specialist clinical focus on the management of skin disorders with TCM.

300179.1 Design Management: Organisational Skills for Designers

Credit Points 10 **Level** 7

Assumed Knowledge

Students should have previous experience in product design project.

This unit is for students to understand manufacturing paradigms and their impact on the product development process and understand the design process and the impact of organisational structures, strategies and processes on the design process. It also provides students with an understanding of key skills that will enable them to work successfully with various organisational members in the product development process. These skills include teamwork, decision-making and communication. The online component of this unit will provide students with the opportunity to develop distance communication and virtual teamwork skills, skills that are becoming increasingly important in new product development.

300396.1 Developing Professional Practice

Credit Points 10 **Level** 7

Assumed Knowledge

Appropriate contextual knowledge and experience.

Equivalent Units

300275.1 Professional Praxis: Learning in Context

Special Requirements

This unit is restricted to the following courses: 3602, 3603, 3604, 3605, 3606, 3607 (current courses) 475E, 475A, 456S, 456A, 473A, 3599, 3600, 3601, 3596, 3597, 3598, 3568 (legacy courses)

This unit is designed to develop qualities and attributes in professionals consistent with the principles of life long learning, experiential learning and a variety of ways of thinking and acting. The primary aim of the unit is for students to learn by improving professional problematic issues of concern. A particular focus will be an introduction to system and holistic thinking and practice. Students will be supported in designing and managing two self directed praxis development learning projects that are connected to their own area of professional interest.

BG814A.1 Development Control

Credit Points 10 **Level** 7

Objectives: to analyse those forces important in determining the allocation and use of land and resources together with the contributions of development to the built and natural environment. Topics: urban and rural design issues; the impact of the 3 tier Government process on development control. The seminar process will examine 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 management in both the micro and macro environments will be examined in the context of energy, community resources and its strategic effects on; the recycling of existing land and non-renewable natural resources. Special issues to be considered. Hazardous environments, bush fires, floods, earthquakes, cyclone areas.

400431.1 Diagnostic Reasoning in Osteopathic Practice

Credit Points 10 **Level** 7

Prerequisite

400426.1 - Clinical Osteopathic Medicine 1 AND **400427.1** - Introduction to Osteopathic Clinical Practice

Corequisite

400430.1 - Clinical Osteopathic Medicine 2

Equivalent Units

400005 Diagnostic Reasoning In Practice

Special Requirements

To undertake this unit, students must comply with the following special requirements: Completion of a Prohibited Persons Declaration; Criminal Record Check Clearance; Students must possess a current, Workcover Authority approved First Aid Certificate; Provide evidence of compliance with the occupational screening and immunisation policy of NSW Health.

This problem-based unit is designed to develop the students skills required to practice osteopathy in the clinical setting. It will develop clinical reasoning underlying the evaluation and identification of clinical problems. Students will learn the issues involved in appraising and evaluating patient problems along with developing and understanding patient history taking and clinical examination. The students will learn to evaluate diagnostic information and use the process of a diagnostic sieve. Students develop these abilities in a supervised clinical setting.

300211.1 Digital Control

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge of feedback controls systems and differential equations. Some knowledge of difference equations and Z-transforms. Experience in use of

computer aided design software such as Matlab. Knowledge of continuous linear systems theory.

This unit introduces digital control methods and real-time computer applications to control systems design and analysis. Topics include: digital computer based control and monitoring systems; applying digital models to simulations; and stability, observability and controllability in the context of discrete time control.

300253.1 Distributed Systems and Network Security

Credit Points 10 **Level** 7

Assumed Knowledge

Basic understanding of networked systems, operating systems and database systems. Basic knowledge of cryptography.

Equivalent Units

54937.1 Distributed Systems and Network Security

Special Requirements

Students must be enrolled in a Masters-level course.

This unit is concerned with the protection of information in computing systems and when transferred over networks. It addresses techniques for securing distributed applications in commercial sectors 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.

300519.1 Drainage Engineering (PG)

Credit Points 10 **Level** 7

Assumed Knowledge

Background in water and related technology at tertiary level.

Equivalent Units

300183 Foundation and Drainage Studies

This unit will be available from 2007. The unit will introduce the concepts of drainage analysis. Basic concepts of surface water hydrology will be introduced. This will be integrated with the hydraulic principles learned in water engineering related units to perform hydrologic analysis of catchments.

300441.1 E-Business Technology and Security

Credit Points 10 **Level** 7

Equivalent Units

300242 Electronic Commerce Technology

Special Requirements

Students must be enrolled in a postgraduate-level course in the College of Health and Science.

This unit introduces students to various technologies used in e-business applications and the associated security issues. These technologies range from networking, web server and application development technologies, security technologies and technologies for ePayment systems. It also emphasises threats to the security of electronic business activities including threats to intellectual property rights, client computers, communications channels and web servers. Information security services, policy and best practices are also covered. At the successful completion of the unit, students should be able to select appropriate technologies required to develop an e-business application, carry out a risk assessment and recommend suitable security measures to minimise the risks.

87111.1 Electronic Systems

Credit Points 10 **Level** 7

Assumed Knowledge

Students should have knowledge in Electronics and Digital Signal Processing.

The unit covers advances and modern design techniques in electronic circuits, noise and noise reduction, and practical filtering and its applications. Topics include an introduction to systems - the synthesis approach, system overview, parts of a system, interface considerations; noise and noise reduction - application of low-noise techniques in audio and radio circuits, noise sources in transistor amplifiers, design criteria for low noise, external noise sources, earth loops, driving and receiving differential lines; power supplies - practical specification and component parameters, linear and switching circuits, choosing an appropriate supply; practical filtering - choice of filter, explanation of filter characteristics, design procedure for realisation of simple filters, practical implementations; frequency domain manipulation - heterodyne and frequency multiplication techniques; case study - Armstrong's method for frequency modulation; and phase-sensitive techniques - the phase-locked loop as a control system, phase comparators, phase-sensitive detection.

200459.1 Emergency Management for Bushfire Prone Areas

Credit Points 10 **Level** 7

Assumed Knowledge

Bushfire behaviour, planning, building and bushfire fighting units.

This unit describes the techniques available to develop risk management strategies in order to minimise loss of life and property in bushfire emergencies.

300513.1 Engineering Software Applications

Credit Points 10 **Level** 7

Assumed Knowledge

Graduate of a recognised engineering or industrial design degree or equivalent.

This unit will be available from 2007. This unit offers several modules of practical applications in engineering and industrial design software from which students get to choose two modules. Each module is taught over a period of six weeks. Lectures are delivered online via WebCT and will be enhanced by weekly computer laboratory practicals. Emphasis is placed on teaching students practical software applications skills tied to the needs of the industry.

300516.1 Engineering Visualisation Systems

Credit Points 10 **Level** 7

Assumed Knowledge

Engineering mathematics, C++ programming

Equivalent Units

300212 - Digital Image Processing Systems

This unit will be available from 2007. This unit covers the fundamentals of engineering visualisation techniques and algorithms and associated hardware and software. Topics include digital imaging devices (eg input devices, output devices, processing units, video controllers etc), image processing, 2D and 3D graphics, 3D visualisation, illumination and shading and selected applications in computer-aided design, medical imaging, virtual reality, computer animation and video games.

300445.1 Enterprise Web Application Development

Credit Points 10 **Level** 7

Assumed Knowledge

Sound programming knowledge and skills consistent with the entry level of a Master degree.

Equivalent Units

300246.1 Internet Computing

Special Requirements

Students must be enrolled in a postgraduate-level course in the College of Health and Science.

This unit aims to lead students to the advanced web technologies for the applications to the internet. The students are anticipated to become proficient with the architecture and some of the leading web development techniques for the enterprise application development, particularly in networking and distributed computing.

EH830A.1 Environmental Assessment

Credit Points 10 **Level** 7

Special Requirements

This unit is restricted to the following courses: 3602, 3603, 3604, 3605, 3606, 3607 (current courses) 3582, 3593, 3524, 3532, 475E, 475A, 456S, 456A, 473A, 3599, 3600, 3601, 3596, 3597, 3598, 3568 (legacy courses)

This unit emphasises the role of environmental management in attainment of ecologically sustainable development. Students will be introduced to a variety of methods relevant to the assessment of environmental impacts and review the history of impact assessment in legislation and policy. Students will be provided with a number of environmental assessments and be required to critically evaluate the quality of the process. In small groups students will undertake an environmental assessment of a proposed development to gain insight into the process of EIA preparation. Students will also be introduced to the field of environmental auditing through industrial visits incorporating auditing exercises. Other environmental assessment tools will be introduced.

CP810A.1 Environmental Computing

Credit Points 10 **Level** 7

The principles of computing as they relate to their application to environmental management will be addressed. This will be done by assisting students to develop expertise in the use of GIS (e.g. ERMS), modelling (e.g. VORTEX and CORE) and multivariate statistical packages.

300181.1 Environmental Engineering Studies

Credit Points 10 **Level** 7

Assumed Knowledge

Basic knowledge of mathematics.

Equivalent Units

88126.1 Environmental Engineering

This unit is an advanced study of the environment that a civil engineer will address as a personal and professional contributor to the development of Australia. It has a bias towards water-related environmental issues.

EH833A.1 Environmental Management

Credit Points 10 **Level** 7

Objectives: environmental management is a series of multi disciplinary activities each of which requires development of a specific expertise. This unit seeks to provide the perspective necessary to coordinate these activities by developing a knowledge of environmental values and the means for their protection. Topics: economic and conservation values for the environment, determination of environmental criteria, status and impacts, remediation, rehabilitation and protection, land management plans, information systems, legislation, environmental responsibility of authorities, environmental authorities, environmental audits, total catchment management, community interaction.

EH829A.1 Environmental Management Systems

Credit Points 10 **Level** 7

Special Requirements

This unit is restricted to the following courses: 3602, 3603, 3604, 3605, 3606, 3607 (current courses) 475E, 475A, 456S, 456A, 473A, 3599, 3600, 3601, 3596, 3597, 3598, 3568 (legacy courses)

Students will learn to use tools and appreciate the complexity of regional environmental management and planning. Building on their local and site specific environmental management knowledge, the regional planning looks at the difficulties encountered when practicing environmental management on a broader spatial scale.

ASEC82.1 Environmental Policy

Credit Points 10 **Level** 7

This elective develops an understanding of the processes by which environmental policy issues arise and become government policy. Course members discuss the range of policy measures available to government, the contribution of the social ecological perspective, and consult environmental policy texts and a variety of case studies from the Australian literature. They select an environmental policy issue that is of personal interest, and research the context within which the issue arose, and the processes by which policy was or is being formulated. Course members are encouraged to take a systemic and reflective view of the issue, and to reach some conclusions about the nature of the policy process.

FS819A.1 Enzymology

Credit Points 10 **Level** 7

The aim of this unit is to introduce students to the principles and applications of enzyme technology. Topics will include basic principles of enzymes, properties and uses of industrial enzymes, the incorporation of enzymes into overall processes for foods, pharmaceuticals and enzyme columns and enzymic membrane reactors.

400417.1 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 – course types 01, 02, 03, 04, 05, 06, 07, 11, 12, or 42.

In this unit students study epidemiological design and analytic strategies as well as biostatistics. The unit also examines the use of surveillance and population datasets to measure and monitor population health and plan health services. Students will develop skills to critically appraise research in health and health care. A range of research studies is examined including studies of occurrence and risk factors for disease and studies evaluating intervention treatments or programs. Both the epidemiological and statistical evidence for the findings are critically assessed

EH840A.1 Ergonomics

Credit Points 10 **Level** 7

Special Requirements

This unit is restricted to the following courses: 3602, 3603, 3604, 3605, 3606, 3607 (current courses) 475E, 475A, 456S, 456A, 473A, 3599, 3600, 3601, 3596, 3597, 3598, 3568 (legacy courses)

This unit covers the areas of ergonomic design that are important in the workplace. This unit is designed to introduce the student to the control and management of ergonomic, psychosocial and physical agents in the occupational environment. It considers the physical, psychological and social interaction that may occur between people and their working environment. Topics covered will include ergonomic principles of workplace design, the physiology of work, human performance

and the effects of physical agents such as lighting, temperature and humidity, manual handling and noise.

400082.2 Essentials for Best Practice in Midwifery

Credit Points 10 **Level** 7

Assumed Knowledge

Basic knowledge of research process. There is a preparatory learning package for students without this entry knowledge.

This unit provides students with the opportunity to critically evaluate and apply an evidence-based approach to clinical practice in midwifery. The unit addresses the value of evidence-based midwifery practice, knowledge development using three main research approaches, development of evidence-based protocols and main sources of evidence (systematic reviews, meta-analysis, meta-synthesis, integrative reviews, clinical guidelines). The development of skills for critiquing sources of evidence and for implementing evidence into clinical practice is fostered within the unit. Students are encouraged to become critical consumers of evidence relevant to midwifery practice and to appreciate the process of practice development.

400428.1 Evidence Based Health Care

Credit Points 10 **Level** 7

Assumed Knowledge

400137 Introduction to Research for Health 400260 Quantitative & Qualitative Research

Equivalent Units

400013 Evidence Base Practice

This unit will develop an understanding of the principles and practice of evidence-based health care in the framework of primary health care practice. Students will integrate individual expertise with the best available clinical evidence from systematic research, and will learn how to apply these skills in their professional practice.

400731.1 Evidence Based Naturopathic Practice

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge of qualitative and quanitative research methodology.

Special Requirements

This unit is only available to students enrolled in the Graduate Diploma in Naturopathy.

This unit will provide the student with the opportunity to develop the skills necessary to search, understand and critically appraise scientific literature related to naturopathy. Basic bio-statistics and research methodology will be reinforced. This unit will develop the concept and principles of evidence-based medicine and the application of this to the practice of naturopathy. This unit will cover research developments in naturopathy and emerging diagnostic techniques used in research and practice of naturopathy.

400567.1 Evidence Based Practice in Chinese Medicine 1

Credit Points 10 **Level** 7

Assumed Knowledge

Equivalent to undergraduate training in TCM or acupuncture

This unit will provide the student with the opportunity to develop the skills necessary to search, understand and critically appraise scientific literature related to Chinese medicine. Basic research methods will be introduced sufficient to support the student through this unit. This unit will introduce and develop concepts and principles of evidence-based practice applied to Chinese medicine and explore specific research developments in Chinese medicine.

400568.1 Evidence Based Practice in Chinese Medicine 2

Credit Points 10 **Level** 7

Assumed Knowledge

Equivalent to undergraduate training in TCM or acupuncture

This unit will focus on the integration of Traditional Chinese Medicine (TCM) and Western medicine in the diagnosis and management of disease. A significant focus of this unit will be on the interpretation and integration of medical diagnostic tests with TCM diagnosis, and will include an examination of the research that attempts to validate TCM theory and diagnostic techniques. Students will learn how to integrate and prioritise clinical information and undertake the development of a research proposal.

400206.1 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

This course is restricted to students enrolled in a postgraduate course.

This unit is designed to develop students' knowledge of the principles and processes necessary for evidence-based clinical practice. General concepts associated with evidence-based nursing are explored. In addition students are assisted to formulate focussed clinical questions and conduct a comprehensive literature search for research evidence that may assist in answering such questions. Issues and techniques involved in the rigorous appraisal of research reports are addressed. The importance of clinical significance and individual patient preferences when making clinical judgments about the implementation of research findings are also explored.

400800.1 Financial Management in Health Services

Credit Points 10 **Level** 7

Equivalent Units

400423 Financial management in human and health services

Special Requirements

Students must be enrolled in a postgraduate course – course types 01, 02, 03, 04, 05, 06, 07, 11, 12, or 42

The health sector must account for use of resources and ensure equity and efficiency from the cost centre level up. Managers need to consider the financial implications of decisions and are expected to understand and act on accounting information to stay on budget. This unit critically reviews the role of financing in health services. Students will focus on the use of financial tools and strategies in the day to day management of health care units.

BG706A.1 Fire and Building Regulations

Credit Points 10 **Level** 7

To familiarise students with the BCA and in particular those aspects of fire engineering incorporated within the regulations. To provide students with an opportunity to relate current research to the BCA. Topics: Building Code of Australia General Provisions, Structure, Fire Resistance Services and Equipment, Health and Amenity Ancillary Provisions, Philosophy, performance versus prescriptions, testing, produce accreditation, processes. Relationship of research to the regulations, authorities, fire hazard assessment, for detection and prevention, material and people behaviour during fire.

EN806A.1 Fire Engineering 1 (Fire Dynamics)

Credit Points 10 **Level** 7

This unit aims to develop a detailed knowledge of fire behaviour and dynamics in order to apply the basis of fire safety engineering calculations and fire safety systems. Fuels and combustion process; chemistry of combustion in fire; flammability limits; premixed flames; laminar jet diffusion flames; turbulent jet diffusion flames; flames from natural fires; fire plumes; burning of liquids; burning of solids; ignition of flammable vapour/air mixtures; ignition of liquids; piloted ignition of solids; spontaneous ignition; smouldering and glowing combustion; extinction and extinguishment; the phenomenology of flame spread; models of flame spread; flames spread through open fuel beds; pre flashover compartment fires; growth to flashover; post flashover fires; fire resistance and fire severity; projection of flames from burning compartments; spread of fire from a compartment; production and measurement of smoke; smoke movement.

PH703A.1 Fire Engineering 2 (Fire Models)

Credit Points 10 **Level** 7

This unit aims to develop an understanding of various types of computational tools used in engineering design of fire safety systems. Its aims to develop an understanding of the basic phenomena being modelled and the limitations of the models in representing the real phenomena. Single room zone models; multi room zone models; field models for fire growth; field models for smoke movement; structural ethics in research and the methods for writing a scientific thesis and presentation.

EN804A.1 Fire Engineering Principles

Credit Points 10 **Level** 7

The unit describes the principles used to design fire safety systems for life safety and introduces other objectives and processes that need to be followed to complete a fire safety engineering study. Students will be encouraged to develop an understanding of the various types of computational tools used in engineering design of fire safety systems.

BG810A.1 Fire Safety Systems 1 (Property)

Credit Points 10 **Level** 7

To develop a high level of knowledge of fire safety systems relevant to property protection and of the design and assessment of such systems. To develop an understanding of risk assessment and cost benefit analysis applicable to protection from fire. Fire spread, fire severity, heat transfer and FRL by calculation, passive systems and performance, risk assessment for insurance purposes; cost benefit analysis.

BG811A.1 Fire Safety Systems 2 (Life Safety)

Credit Points 10 **Level** 7

To develop a high level of knowledge of fire safety systems relevant to life protection and of the design and assessment of such systems. Timeline analysis; design fires, regulatory objectives, unfavourable conditions; detection and alarm systems, smoke movement and control; life risk analysis; human behaviour and performance; evacuation systems; sprinklers and life safety.

PE804A.1 Fire Technology Principles

Credit Points 10 **Level** 7

The unit introduces students to the basics of fire behaviour so that they may appreciate fire safety systems and their components. The unit will provide the basis for understanding fire safety engineering and the techniques and tools used in fire safety engineering.

300520.1 Foundations Engineering (PG)

Credit Points 10 **Level** 7

Assumed Knowledge

Graduate of a recognised engineering or industrial design degree or equivalent.

Equivalent Units

300183 - Foundation and Drainage Studies

This unit covers the analysis and design of foundations subjected to general loading. The topics covered include analysis of shallow foundations, settlement on sand and clays, mats, piles, retaining structures, foundation construction practice, slope stability and field investigations.

300125.2 Fundamentals of Computer Science

Credit Points 10 **Level** 1

This unit introduces a broad range of topics which make up the study of computer science. The four broad areas to be examined are Machine Architecture (data storage and manipulation), Software (operating systems, networks, programming languages), Data Organisation (data structures, file structures, database structures) and Algorithmic Machines (Theory of Computation). The treatment is intended to prepare students for later in-depth treatment of these topics.

400076.2 Fundamentals of Pregnancy and Birth

Credit Points 10 **Level** 7

This unit provides students with an understanding of pregnancy and birth. Emphasis will be placed on the biological, physiological, psychosocial and cultural aspects of pregnancy and birth. The unit provides an understanding of the role of the midwife in maintaining a woman within a continuity of care model.

400077.2 Fundamentals of the Postnatal Period and the Newborn

Credit Points 10 **Level** 7

This unit provides students with an understanding of the postnatal and newborn period. Emphasis will be placed on the biological, physiological, psychosocial and cultural aspects of the puerperium. The unit also examines the adaptation of the newborn to extrauterine life and care within the neonatal period. The unit provides an understanding of the role of the midwife in maintaining a woman and family focus within a continuity of care model during the postnatal period.

EH845A.1 Hazardous Chemical Assessment

Credit Points 10 **Level** 7

Special Requirements

This unit is restricted to the following courses 3602, 3603, 3604, 3605, 3606, 3607 (current courses) 475E, 475A, 456S, 456A, 473A, 3599, 3600, 3601, 3596, 3597, 3598, 3568 (legacy courses)

This unit aims at developing in the students the skills to be able to assess the potential impacts of both chemicals and substances on people in the workplace, general community and effects on the environment. The various codes and practice and legislation will be explored and applied in the assessments. In addition a variety of information sources will be used and validity of the data presented reviewed.

400418.1 Health Advancement and Health Promotion

Credit Points 10 **Level** 7

Equivalent Units

E7234 Health Advancement, E7306 Health Advancement

Special Requirements

Students must be enrolled in a postgraduate course – course types 01, 02, 03, 04, 05, 06, 07, 11, 12, or 42.

Health promotion is a process that seeks to enable individuals, communities and populations to increase control over their health by addressing the determinants of health, resulting in improved health outcomes. The historical development of international health promotion efforts will be traced. Various theoretical underpinnings of health promotion are

explored, factors enhancing and limiting interventions reviewed and the levels of health promoting actions demonstrated with a view to developing best practice. Evaluation of health promotion activity is also reviewed.

400420.1 Health Economics and Comparative Health Systems

Credit Points 10 **Level** 7

Equivalent Units

E7232 - Economics and Organisation of Health Services.

Special Requirements

Students must be enrolled in a postgraduate course – course types 01, 02, 03, 04, 05, 06, 07, 11, 12, or 42.

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.

400210.1 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.

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.

46518.1 Human Resource Management

Credit Points 10 **Level** 7

This unit provides an introduction to the Human Resource Management (HRM) function in business and government organisations within the Australian socio-political context. It provides an overview of the function; an examination of its relationships with other business functions; a review of its foundation disciplines (psychology, sociology, law, economics, management and organisation theory); a study of the concept of professional HRM practice; and an examination of trends in HRM practice, taking into account projected legal, technological and economic change. Various models of the HR function are reviewed and an attempt is made to integrate HR and industrial relations activities into an HR employment relations model.

300446.1 Human-Web Interaction

Credit Points 10 **Level** 7

Assumed Knowledge

Ability to develop simple static web sites.

Equivalent Units

300269.1 Web Technology

Special Requirements

Students must be enrolled in a postgraduate-level course in the College of Health and Science.

Web Engineering differs from Software Engineering in a number of important aspects. A key area of difference is that web sites and applications are typically developed for a larger, often global, audience. Most web designers aim to attract and retain visitors/ customers and have them return often. This unit examines human-web interaction in order to develop (or evaluate) web sites that not only look professional but are usable, functional and accessible. Such web sites are more likely to build traffic and meet the objectives they were created for. The usability guidelines and methodologies examined will be based on current research.

300184.1 Industrial Graphics - 2D Drawing

Credit Points 10 **Level** 7

Engineering drawing is the formal graphical communication language used by professionals engaged in the design, manufacture and management of manufactured items. This language provides the facility to describe and document three-dimensional objects or concepts in two dimensions, using lines, characters and symbols. This language is based on standards laid down by Standards Australia as documented in AS 1100 Parts 101 and 201 and is compatible with a range of international drawing standards. The primary method used to generate these drawings is a range of computer aided design (CAD) systems, which incorporate hardware and

software components. Manual sketching and illustrative techniques are also important for the communication of concepts. This unit examines in detail the language and tools used to generate engineering drawings and provides students with practical skills that will allow them to communicate with other professionals using this language.

300185.1 Industrial Graphics - 3D Modelling

Credit Points 10 **Level** 7

The documentation of design concepts in the form of three-dimensional (3D) computer models provides data that can be applied in a wide variety of ways to facilitate the understanding and production of parts and assemblies. This unit introduces students to the industry-standard software and hardware employed to generate these models, through a hands-on approach to creating 3D data. In addition to this students are provided with the background history related to computer modelling in general, and solids modelling in particular. Because of the key role that 3D computer models play in modern manufacturing, issues such as data transfer, rapid prototyping, computer numerical machining (CNC) and visualization are discussed and evaluated.

300186.1 Industrial Graphics - Surface

Credit Points 10 **Level** 7

The ability to generate three-dimensional data, and in particular free-form 3D data, within a computer, and display that data in the form of shaded, raytraced and VRML images provides a powerful design, visualization and analysis tool. This unit introduces students to the fundamentals of 3D wireframe, NURB surface and boundary representation solids modelling, and then focuses on the tools and processes available for producing a range of image types from these 3D models.

300268.1 Information Technology for Virtual Organisations

Credit Points 10 **Level** 7

Assumed Knowledge

Familiarity for using the internet, appreciation of basic business processes, ability to develop simple web pages and contextual appreciation and comprehension of contemporary societal issues.

The increasing use of information technology (IT) and the alignment between IT and business objectives has led to the evolution of a new kind of organisation, the virtual organisation (VO). Common denominators of VOs are their flexible organisational and management structure, and the sophistication of their IT usage in a global context. This unit explores the impact of IT on business processes, and identifies theoretical perspectives and practical approaches to enhance these processes. New organisational structures to support innovative ways of developing business processes in the contemporary socio-cultural and economic environment are examined, and associated ethical and professional practice issues are considered.

300515.1 Instrumentation and Measurement (PG)

Credit Points 10 **Level** 7

This unit will be available from 2007. This unit covers all topics associated with the measurement and presentation of physical parameters. A wide range of transducers are presented in detail, while instrumentation includes a detailed analysis of a multitude of analog and digital circuits used to amplify, transmit and display electrical signals. The application of these modules in modern measurement equipment is discussed.

400440.2 Integrative Osteopathy

Credit Points 10 **Level** 7

Prerequisite

400263.1 - Osteopathic Clinical Studies 4 AND **400266.1** - Osteopathic Clinical Studies 5

The aim of the subject is to provide an opportunity for students to consolidate and integrate the knowledge of osteopathic principles and practice they have acquired in the course as it pertains to clinical presentations in osteopathic practice. This subject will further develop the use of advanced thrust manipulative techniques and patient focussed osteopathic management. The subject will introduce the concept of minimal leverage thrust to reduce the force required to perform manipulative techniques. This will improve student skills in manipulating and further ensure patient safety.

400209.1 Introduction to Infant Mental Health - Child/ Family Nursing

Credit Points 10 **Level** 7

Assumed Knowledge

Students require basic knowledge of infant and child health at undergraduate level, augmented with clinical experience as a registered nurse in child and family settings.

This unit provides an introduction to issues of infant mental health. Constitutional factors, effects of physical disease or injury, temperamental factors and environmental factors are reviewed. It examines theoretical perspectives of attachment, maternal psychopathology and clinical presentations. Nursing

management strategies related to separation anxiety disorder, developmental disorders and reactive attachment disorder are focal points.

400427.1 Introduction to Osteopathic Clinical Practice

Credit Points 10 **Level** 7

Assumed Knowledge

400130 Human Medical Sciences 1 400256 Human Medical Sciences 2 400134 Human Medical Sciences 3 400259 Osteopathic Medicine 1 400264 Osteopathic Medicine 2 400265 Osteopathic Medicine 3 400268 Osteopathic Medicine 4 400138 Pathophysiology 1 400267 Pathophysiology 2

Prerequisite

400263.1 - Osteopathic Clinical Studies 4 AND **400266.1** - Osteopathic Clinical Studies 5

Corequisite

400426.1 - Clinical Osteopathic Medicine 1

Special Requirements

To undertake this unit, students must comply with the following special requirements: Completion of a Prohibited Persons Declaration; Criminal Record Check Clearance; Students must possess a current, Workcover Authority approved First Aid Certificate; Provide evidence of compliance with the occupational screening and immunisation policy of NSW Health.

This problem based unit is designed to integrate knowledge and skills required to practice osteopathy in the clinical setting. It will introduce students to the issues involved in clinical reasoning; the different types of clinical reasoning used in solving problems; and reasoning used in designing and conducting the therapeutic intervention. It will teach students how to: integrate multiple modes of reasoning into clinical problem solving; to differentially diagnose; to apply the skills of clinical reasoning to the diagnostic process. Students also develop these abilities in a supervised clinical setting..

300260.1 IT Project Management

Credit Points 10 **Level** 7

Special Requirements

Students must be enrolled in a postgraduate-level course.

This unit is designed to provide students with an opportunity to learn and apply the knowledge, values and skills of consultancy, project management, and research by undertaking an approved computer-related project, preferably on behalf of a client. The unit covers preparing and presenting project proposals in web-engineering and design and e-business areas, project management, time management, communication skills, and the evolving legal, ethical, and social responsibilities of IT professionals. Students may work in teams or individually, under the supervision of a staff member, to plan and investigate their project. In this unit students prepare and begin projects that they implement the following session in 300261IT Project Implementation. Both units are compulsory for MIT candidates.

400414.1 Leadership and Change

Credit Points 10 **Level** 7

Equivalent Units

NU806A Processes of Change.

In the context of a society where change is constant, leadership is required in order to achieve optimum outcomes. This unit critically explores leadership, leadership and change theories, leadership in learning organisations and the community, and the internal and external environments, which impact on organisations. The unit considers the central strategies for development of leaders who foster sustainable change outcomes at individual, organisational and community level.

100649.1 Leadership and Change

Credit Points 10 **Level** 7

Equivalent Units

101069.1 Leadership and Change

Holistic perception of leadership under conditions of accelerated changes, uncertainty and criticality as a means of leverage into personal insight, social relationship and ethical action. Leaders' art to inspire and energize, ignite imagination and open new opportunities for action compatible with individuals' urges for learning, health and self-realization.

400778.1 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

This course is restricted to students enrolled in a postgraduate course.

This unit examines the concept, form and structure of health care organisations. Organisational theory is explored and used to analyse a range of structures

used in nursing and contemporary health care. Factors which influence organisational design, function and effectiveness are explored and discussed including: organisational behaviour, strategy, culture, power and politics, technology, sustainability and effectiveness. A major focus in the unit is planning for strategic organisational development to meet the challenges of rapid change and the need for performance improvements in patient care delivery. Concepts related to the strategic development of workforce capacity in the health care arena are considered through the application of a range of theories including the learning organisation. Leadership will be examined within the context of the unit with a particular emphasis on change management.

400777.1 Leadership for Quality and Safety in Health Care

Credit Points 10 **Level** 7

Assumed Knowledge

Students require a level of understanding of professional standards for accountability in service delivery and the ongoing need to continuously improve quality.

Special Requirements

This course is restricted to students enrolled in a postgraduate course.

Increasingly clinical leaders 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 the quality and governance frameworks and strategies that they can employ within health care 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.

400235.1 Leadership in Clinical Practice

Credit Points 10 **Level** 7

Special Requirements

This course is restricted to students enrolled in a postgraduate course.

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. Assignments provide students with the opportunity to apply new knowledge about leadership to their expertise, whether they be management, education or clinical practice.

300205.1 Linear and Nonlinear Analysis of Structures

Credit Points 10 **Level** 7

Assumed Knowledge

Students must have knowledge in engineering mathematics, engineering mechanics at intermediate level and structural analysis of fundamental level.

This unit introduces students to linear and nonlinear structural analysis of trusses, beams and frames. It covers the first-order elastic analysis of statically determinate and indeterminate structures and nonlinear analysis of beams and frames. This unit aims to teach students to master basic skills in structural analysis as well as skills in using computer software to analyse complex structures.

EY813A.1 Management of Aquatic Environments

Credit Points 10 **Level** 7

Special Requirements

This unit is restricted to the following courses: 3602, 3603, 3604, 3605, 3606, 3607 (current courses) 475E, 475A, 456S, 456A, 473A, 3599, 3600, 3601, 3596, 3597, 3598, 3568 (legacy courses)

This advanced level unit introduces the techniques and processes involved in the assessment and management of impacts of the built environment on aquatic ecosystems, in the interests of environmental protection.

300400.1 Managing for Sustainable Development

Credit Points 10 **Level** 7

Prerequisite

300397.1 - Perspectives of Sustainable Development

Equivalent Units

EH825A.1 Environment Management Cores Studies 2; EH832A.1 Environmental & Occupational Health Development and Management

Special Requirements

This unit is restricted to the following courses: 3602, 3603, 3605, 3606 (current courses) 475E, 475A, 473A, 3599, 3596 (legacy courses)

This unit examines environmental management policy and its practice in a variety of settings. In terms of policy, the unit begins with a brief overview of the policy principles associated with the concept of sustainable development. In terms of management practice, students are invited to select a vocationally relevant change strategy from a range introduced in the study materials. These include National and Local Planning, ISO 140000 and Healthy Settings. Students are required to examine the implications of the use of one of these strategies in their workplace/community. The unit guides this process by providing in depth materials in the fields of change management, organisational learning and policy development. The unit is offered in a distance-learning mode with two compulsory workshops.

51257.1 Manufacturing Resource Planning

Credit Points 10 **Level** 7

This unit provides an understanding of the philosophy of manufacturing resource planning and equips the candidate with the tools and techniques needed to integrate various functions, in order to achieve competitive performance standards in small and large manufacturing organisations. Candidates will be exposed to MRPII and its applications to marketing, demand management, aggregate planning, capacity planning, master scheduling, cost control, and its relationships with JIT and TQM. Topics include competition and organisational strategies; the CEO's role in resource management; systems approach and networks; critical elements of manufacturing resource plan; linkage of total productivity; MRPII in marketing, demand management and forecasting; resource requirement planning; rough-cut capacity planning; capacity planning; aggregate production planning; the master scheduling policies; MRPII in manufacturing, purchasing, cost control, engineering and distribution resource planning; MRPII and computer systems; MRPII, JIT and TQM interrelationships; organising and implementing MRPII; MRPII in small companies; and measuring the effectiveness of MRPII.

300189.1 Master of Engineering: Specialist Reading

Credit Points 10 **Level** 7

This unit is a specialist reading program, designed by the student and the course supervisor (or nominee), to further the student's knowledge in a very specific aspect of the key program of study in the postgraduate course. The work involves a fortnightly personal tutorial with the supervising staff member, reviewing the reading material and future reading program.

300517.1 Master Studio 1

Credit Points 10 **Level** 7

Assumed Knowledge

A bachelor degree in Industrial Design.

Equivalent Units

300190 Master Studio

This unit explores design perspectives within an industry interactive project theme including user centred design; reduced environmental impact guided by sustainable design principles; discuss technological and cultural viewpoints; experience 'designer as manager' client relations; value analysis and production technologies. Research is conducted in groups and proposals define a strategy of activities that contribute to the detailing of a product system - realisation. The focus is on the most cost-effective user centred criterion-based design for manufacture whilst observing social, economic and environmental balances.

300518.1 Master Studio 2

Credit Points 10 **Level** 7

Assumed Knowledge

Bachelor degree in Industrial Design.

Equivalent Units

300190 Master Studio

This unit explores strategies for industrial designers operating in the complex and contradictory context of late-industrial cultures. The complexity of designing in Australia for a global economy with local peculiarities is studied, with a particular emphasis on designing for users who are increasingly difficult to know. These same users are also demanding more protection from goods and services that they consume and they demonstrate increasing doubts about the claims that advertisers make. These factors are bringing new issues into the industrial design field.

EH850A.2 Masters Research Project

Credit Points 20 **Level** 7

Corequisite

300398.1 - Methods of Researching

This unit aims to provide candidates with the opportunity to develop a high level of conceptual understanding in an area of research relevant to their

field of study. Students will develop competencies in reviewing academic literature and in the evaluation and conduct of research.

300191.1 Mechatronic System Design

Credit Points 10 **Level** 7

The aim of this unit is to 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 such machine elements as bearings, brakes, clutches, belt drives and shaft and motor systems is the intended outcome of undertaking this unit and project-based tasks will form part of the learning process and team work experience.

400217.1 Mental Health Assessment and Application

Credit Points 10 **Level** 7

Assumed Knowledge

Students are required to 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.

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.

400773.1 Mental Health for Communities

Credit Points 10 **Level** 7

Assumed Knowledge

Students require a level of understanding of professional standards for practice and support of individuals and families across the lifespan in the provision of health care.

Special Requirements

Must be a health care professional, e.g. nurse, social work, nutritionist.

A diverse society may have widely differing conceptions of what constitutes acceptable and maladaptive experience and behaviour as well as differing attitudes to mental illness and healing traditions. This unit provides an overview of the issues inherent in discussions of mental health and mental illness within a community. It examines the influences of, for example, environment, culture, adaptive ability and support systems on psychological well-being while considering approaches which promote resilience, attachment, a sense of belonging and empowerment. Contemporary issues related to selected vulnerable groups will be explored.

400688.1 Mental Health in Chinese Medicine

Credit Points 10 **Level** 7

This unit will enable practitioners to extend their understanding of the Traditional Chinese Medicine (TCM) diagnosis and management of a range of mental health conditions that are common in the community. A feature of this unit is the integration of TCM and western approaches. Treatment will focus on acupuncture with common patent Chinese herbal medicine treatments included.

400218.1 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.

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.

400219.1 Mental Health Nursing Practice 2

Credit Points 10 **Level** 7

Assumed Knowledge

Students are required to be registered nurses with a basic knowledge of mental health, mental illness, and assessment processes, augmented with experience in mental health settings.

This unit is designed in 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.

300398.1 Methods of Researching

Credit Points 10 **Level** 7

Assumed Knowledge

Library research skills, project design and management, an area of science.

Equivalent Units

Unit was formerly coded ASC411, SC808A, NU808A, SC809A, EH388A, 300277

Special Requirements

This unit is restricted to the following courses: 3602, 3603, 3604, 3605, 3606, 3607, 4516, 3544, 3608, 2724, 3618 (current courses) 475E, 475A, 456A, 473A, 3599, 3596, 3597, 3623 (legacy courses)

This unit aims for postgraduate students to apply scientific methods to a variety of research situations and questions; to understand the range of ways in which additions to knowledge in the applied sciences are initiated, validated and communicated and to prepare and trial research designs best suited to the particular type of issue each student wishes to address. The unit is taught through self-paced, self-directed learning. Class contact will be a three-day workshop, in the first and second half of session, respectively. Students will have the opportunity to field test their own research design.

MI808A.1 Microbial Genetics

Credit Points 10 **Level** 7

To provide advanced understanding of genetics and prokaryotes and eukaryotes and to extend students' appreciation of their application in recombinant DNA technology and molecular biology. Recent developments in microbial genetics has demonstrated its wide application in diverse areas such as waste disposal, pharmaceuticals, food production, agriculture and horticulture. This unit focuses on how gene is represented in protein, how it is reproduced and expressed. Topics covered will include: structure and function of genetic material, regulation of gene expression in prokaryotes, mutations and genetic repair mechanisms, eukaryotic chromosomes and gene expression, gene transfer in prokaryotes, bacteriophage genetics, recombinant DNA technology.

300514.1 Microprocessor Applications in Engineering

Credit Points 10 **Level** 7

Assumed Knowledge

Basic knowledge in electronics.

This unit will be available from 2007. Part A (Microcontrollers): To gain expertise in hardware architecture and the assembly language of microcontrollers. The applications of timers, interrupts and serial ports will also be discussed. Furthermore, the general approach in designing microcontrollers for engineering systems will be studied. Part B (PLCs): Teaches students how to program programmable logic controllers (PLCs). It uses an Omron PLC controlling a factory represented by four pneumatic cylinders. After covering the Ladder Logic programming language, it moves on to cover sequential programming and numerical manipulation using PLCs.

300192.1 Mobile Robotic Systems

Credit Points 10 **Level** 7

This unit aims to develop students' understanding of the basic concepts involved in mobile robotics. The areas of localisation, map building and path planning of mobile robots are introduced. Various sensors and their applications in mobile robotics are also introduced.

300256.1 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 Masters-level 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.

300193.1 Multimedia Engineering

Credit Points 10 **Level** 7

Assumed Knowledge

Digital Signal Processing. Signals and Systems.

This unit introduces students to the digital processing of speech and image signals. Topics include speech

generation, analysis/synthesis and speech/speaker identification, FFT implementation, shift theorem, filters correlation and convolution, image reconstruction. On the completion of this unit, students will be exposed to the latest developments in the area of multimedia signal processing.

400574.1 Musculoskeletal Health in Chinese Medicine 1

Credit Points 10 **Level** 7

Assumed Knowledge

Equivalent to undergraduate training in TCM.

This unit along with Musculoskeletal Health in Chinese Medicine 2 will enable practitioners to develop an in-depth understanding of the diagnosis and management of musculoskeletal conditions using acupuncture and Chinese herbal medicine. This unit presents a systematic approach to the assessment of musculoskeletal disorders using Traditional Chinese Medicine (TCM) and specific medical tests and includes a focus on common musculoskeletal disorders, sports injuries and rehabilitation. Musculoskeletal Health in Chinese Medicine 1 and 2 together, provide a strong specialist clinical focus on the management of musculoskeletal health disorders with acupuncture and Chinese herbal medicine.

400575.1 Musculoskeletal Health in Chinese Medicine 2

Credit Points 10 **Level** 7

Assumed Knowledge

Equivalent to undergraduate training in TCM.

This unit extends students' knowledge and understanding developed in Musculoskeletal Health in Chinese Medicine 1. This unit includes a systematic approach to the assessment and treatment of fractures, systemic and inflammatory disorders. Musculoskeletal Health in Chinese Medicine 1 and 2 together provide a strong specialist clinical focus on the management of musculoskeletal health disorders with TCM.

400727.1 Naturopathic Diagnosis

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge of Clinical Diagnosis and Pathophysiology to a level equivalent to that taught in the course 4597 is required to understand the content of this unit.

Naturopathic diagnosis is a defining area for the naturopathic practitioner. On completion of this unit the student will have examined the diagnostic categories and processes utilized by Naturopaths and compared and contrasted these with current western medical diagnostic methods. A range of diagnostic possibilities are studied from physical observations to laboratory and computerised technologies. Diverse diagnostic methodologies are critiqued. Options for diagnosis within health models are examined with emphasis on traditional knowledge, clinical findings and research. Half day field trips are incorporated to ob serve laboratory facilities.

400730.1 Naturopathic Therapeutics

Credit Points 10 **Level** 7

Prerequisite

400726.1 - Advanced Herbal Medicine and Nutrition AND **400727.1** - Naturopathic Diagnosis

Special Requirements

Prerequisites for this unit must be met.

The focus of this unit is to integrate the individual modalities already studied using a systematic approach to diseases and conditions, integrating herbal medicine, nutrition, massage, homoeopathy, counselling and diagnostic techniques (naturopathic and western medical). There is an emphasis in treating the whole person. Each case studied is taken by examining the signs and symptoms, observations, assessment, formulating a treatment plan and educating the patient. The student is expected to demonstrate higher order thinking for assessment, problem solving, treatment planning, instigating interventions, appraising interventions and planning ongoing management as an independent health practitioner within the Australian Health Care System.

300255.1 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

54947.1 Management of Networked Systems

Special Requirements

Students must be enrolled in a Masters-level course.

The increasing demand for IT services and the strong expansion of the Internet have resulted in large complex networks. This unit addresses the issues relevant to management of these networks and the services that they offer. It covers the principles and current practices pertinent to integrated management

of networks, systems, services and applications. Topics include: management protocols, standards and standards organisations; introduction to and comparison of some commercial management platforms; the impact of web-based management on distributed systems and services; and future trends in management of networked systems.

400689.1 Neurological Disorders in Chinese Medicine

Credit Points 10 **Level** 7

This unit will enable practitioners to extend their understanding of Traditional Chinese Medicine (TCM) diagnosis and management of a range of neurological disorders. A feature of this unit is the integration of TCM and western medical approaches. Treatment will focus on acupuncture with common patent Chinese herbal medicine treatments included.

EH828A.1 Noise Assessment and Control

Credit Points 10 **Level** 7

Special Requirements

This unit is restricted to the following courses: 3602, 3603, 3604, 3605, 3606, 3607 (current courses) 475E, 475A, 456S, 456A, 473A, 3599, 3600, 3601, 3596, 3597, 3598, 3568 (legacy courses)

This unit has been designed to provide a practical and theoretical base to assist in the development of environmental and occupational noise assessment programs and in implementing noise control procedures. Students will learn noise measurement and assessment methodologies including planning, noise control, EIS and legislative and court procedures, relative to noise assessment and control.

300195.1 Numerical and Finite Element Methods

Credit Points 10 **Level** 7

Assumed Knowledge

Graduate of a recognised engineering or industrial design degree or equivalent.

The finite element method has become a powerful tool for the numerical solution of a wide range of engineering problems. This unit introduces the basic and fundamental principles of the finite element method in elasticity. Emphasis is given to the development of the finite element theory, which is supported by practical computer classes intended to give students some insights into finite element computer programs.

400236.1 Nursing Development Project

Credit Points 20 **Level** 7

Assumed Knowledge

Students require a level of understanding of investigative methods, as well as concepts and principles of education or administration or a focus in nursing practice. Students must also be registered nurses with current relevant clinical experience.

This unit is designed for students to identify and investigate a unit area or professional practice issue of interest or concern with the outcome being to inform practice from either a clinical, management or educational perspective. The student will examine issues raised by presenting a comprehensive literature review articulating the professional practice implications for the contemporary health care context.

400725.1 Nursing Leadership Project

Credit Points 20 **Level** 7

This unit is designed for students to identify and investigate a subject area or professional practice issue of interest or concern with the outcome being to inform practice from a clinical leadership perspective. Drawing on relevant theoretical and philosophical constructs, the student will examine issues raised by the investigation to present a comprehensive and scholarly paper articulating the professional practice implications for the contemporary health care context.

400437.1 Nutrition and Pharmacology for Osteopaths

Credit Points 10 **Level** 7

Assumed Knowledge

400130 Human Medical Sciences 1 400138 Pathophysiology 1 400267 Pathophysiology 2

Incompatible Units

400014 Continuing Professional Development for Practitioners

This unit reviews two health care modalities – Nutrition and Pharmacology – that present in the clinical practice of Osteopathy. The pharmacology and nutrition components of this unit are intended to provide students' with a comprehensive knowledge of these areas. Common and specific drugs used to treat conditions seen in osteopathic practice are addressed. Recognition of adverse reactions to drug therapy are described.

300144.2 Object Oriented Analysis

Credit Points 10 **Level** 2

Assumed Knowledge

Should have knowledge similar to the unit 300131 Introduction to Analysis and Design - general understanding of what an information system is and how information systems development is undertaken.

Equivalent Units

14935, D2783, J2783

Analysing and modeling requirements using the object-oriented (OO) approach is the core strength of this unit. The Unified Modifying Language (version 2.0) is used as a modeling standard for creating OO models in the problem space. This unit consolidates and extends the knowledge gained by students in Introduction to Analysis and Design unit and applies it to practical OO analysis work through a case study.

300146.2 Object Oriented Design

Credit Points 10 **Level** 2

Prerequisite

300144.2 - Object Oriented Analysis

This unit builds on the knowledge of object oriented modelling acquired in the unit Object Oriented Analysis. Systems design is an important activity that takes place when developing new computer-based information systems or when maintaining existing computer-based systems. The object oriented systems design concepts and skills together with a practical knowledge of UML students will develop in this unit are essential for anyone designing contemporary information systems.

300394.1 Occupational Environment: Assessment & Control

Credit Points 10 **Level** 7

Equivalent Units

EH848A.1 Industrial Ventilation or EH834A.1 Occupational Hygiene or EH837A.1 Personal Protective Equipment

Special Requirements

This unit is restricted to the following courses: 3602, 3603, 3604, 3605, 3606, 3607 (current courses) 475E, 475A, 456S, 456A, 473A, 3599, 3600, 3601, 3596, 3597, 3598, 3568 (legacy courses)

This unit introduces the student to a range of skills required to assess an occupational environment in the areas of chemical and biological pollutants, noise, health and cold and lighting. Methods of controlling potential hazards/pollutants such as industrial ventilation and personal protective equipment will also be covered. Indoor air and its impact on people will be discussed as a separate issue.

300391.1 Occupational Health Management

Credit Points 10 **Level** 7

Equivalent Units

EH831A.1 Occupational Health Management

Special Requirements

This unit is restricted to the following courses: 3602, 3603, 3604, 3605, 3606, 3607 (current courses) 475E, 475A, 456S, 456A, 473A, 3599, 3600, 3601, 3596, 3597, 3598, 3568 (legacy courses)

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.

200223.1 Operations Management

Credit Points 10 **Level** 7

The main objective of this unit is to provide an introduction to operations management, and to be the role of operations in an organisation, not only as an important element of corporate strategy but also as a means of enhancing customer value. This unit will introduce students to a range of quantitative techniques, to enable them to analyse problems in operations management and make decisions or recommendations based on the interpretation of their analysis and other strategic considerations. A series of cases will be used to provide simulated experience in the management of operations and to explore the interaction of the operations function with other functional areas.

400424.1 Organisations and Management in Human and Health Services

Credit Points 10 **Level** 7

Equivalent Units

C7002, Human Services Organisation and Management 1 C7003, Human Services Organisation and Management 2 E7312, Health Services Organisational Behaviour E7233, Health Services Management

Special Requirements

Students must be enrolled in a postgraduate course – course types 01, 02, 03, 04, 05, 06, 07, 11, 12, or 42.

This unit will develop in students a critical understanding of the nature of human and health services organisations and their management in contemporary social and political context. It examines, and integrates, the contributions of social science, management and organisation theory with the practical consideration of actual human and health services policy, programs and industrial concerns. The issues for detailed consideration are chosen on the basis of students' organisational and workplace experience and learning needs.

400432.1 Osteopathic Research 1

Credit Points 10 **Level** 7

Prerequisite

400428.1 - Evidence Based Health Care

Equivalent Units

400006 Research in Practice 1

Special Requirements

To undertake this unit, students must comply with the following special requirements: Completion of a Prohibited Persons Declaration; Criminal Record Check Clearance; Students must possess a current, Workcover Authority approved First Aid Certificate; Provide evidence of compliance with the occupational screening and immunisation policy of NSW Health.

In this unit, students will develop and write up their own research proposal and undertake for data collection relating to their research proposal. Emphasis in this unit is on the development and implementation of the project through: developing a research question, formulating a research protocol, producing an ethics proposal, undertaking data collection, managing and analysis of emerging preliminary findings. The project will not be concluded in this unit, although it is anticipated that most data collection will be complete.

400436.1 Osteopathic Research 2

Credit Points 10 **Level** 7

Assumed Knowledge

400428.2 Evidence Based Health Care

Prerequisite

400432.1 - Osteopathic Research 1

Equivalent Units

400009 Research in Practice 2

Special Requirements

To undertake this unit, students must comply with the following special requirements: Completion of a Prohibited Persons Declaration; Criminal Record Check Clearance; Students must possess a current, Workcover Authority approved First Aid Certificate; Provide evidence of compliance with the occupational screening and immunisation policy of NSW Health.

The aim of this unit is for students to apply their knowledge of research and scholarly writing with regard to the investigation and completion of the research project commenced in the unit Osteopathic Research 1 and Evidence Based Health Care

400208.1 Parental Issues in Child and Family Health Nursing

Credit Points 10 **Level** 7

Assumed Knowledge

Students require basic knowledge of maternal psychosocial and physical issues related to childbirth at undergraduate level, augmented with clinical experiences as a general registered nurse.

The unit provides an overview of child and family health by addressing specific issues from the maternal and paternal aspect. It examines the role of client-centred counselling and parental expectations. The unit prepares students in the area of the identification and early management of postnatal stress and depression as well as the use of referral services and support networks. Strategies for maintaining women's sexual and reproductive health are also examined.

300196.1 Personal Communication Systems

Credit Points 10 **Level** 7

Assumed Knowledge

Communications Systems. Digital Communications.

This unit covers the design fundamentals of cellular systems, including frequency reuse, channel assignments, radio wave propagation in mobile environments, modulation techniques, coding techniques, spread spectrum and multiple access. It includes topics from emerging wireless technologies, and third-generation mobile communication systems and standards.

300397.1 Perspectives of Sustainable Development

Credit Points 10 **Level** 7

Equivalent Units

EH824A.1 Environmental Management Core Studies 1; EH833A.1 Environmental Management

Special Requirements

This unit is restricted to the following courses: 3602, 3603, 3604, 3605, 3606, 3607 (current courses) 475E, 475A, 456S, 456A, 473A, 3599, 3600, 3601, 3596, 3597, 3598, 3568 (legacy courses)

This unit explores the philosophy, policies and practice of sustainable development. In exploring environmental philosophy the unit provides students with an understanding of the nature and emergence of both modern and post-modern paradigms that influence the direction and nature of current development policy. The nature of environmental policy is examined by developing an understanding of how values and attitudes shape a governing ethic about environmental management. The social, political, economic and ecological elements of sustainable development are unfolded to aid students understanding of what needs to be managed. Particular attention is given to those issues confronting developing countries as they move to become industrialised nations yet have high levels of poverty. Finally, the unit introduces the practice of environmental impact assessment as one management tool used in the management process.

400774.1 Perspectives on Nursing

Credit Points 10 **Level** 7

Equivalent Units

400234, Nursing Knowledge: Concepts, Models and Theories.

This unit addresses the origins and development of nursing knowledge. A major focus is the development and progress of the discipline of nursing. It includes an in-depth exploration of the history and philosophy of nursing science, including epistemology and strategies for theory generation in nursing. The impact of borrowed perspectives on research, theory and practice in the discipline of nursing is also explored. The unit also addresses the development of theoretical perspectives in nursing, including areas of controversy in the discipline. Numerous perspectives on the relationship between nursing theory, research and practice are considered. A major emphasis in the unit is development of knowledge and understanding of the link between nursing theory, research, practice and related issues.

400569.1 Pharmacology of Chinese Medicines

Credit Points 10 **Level** 7

Assumed Knowledge

Equivalent to undergraduate training in TCM.

This unit will introduce the student to the pharmacology and toxicology of Chinese herbal medicine. The unit will cover the pharmacological principles of Chinese herbal medicines and identify basic active constituents that contribute to the actions of Chinese herbal medicines. This unit will also introduce safety and toxicology of herbal medicines including mechanisms and measurement of toxicity, known potential adverse reactions of commonly used Chinese herbs, known potential interactions with Western pharmaceuticals and management of adverse events.

200498.1 Planning for Bushfire Prone Areas

Credit Points 10 **Level** 7

This unit describes the general planning issues relevant to developments in bushfire prone areas and the measures that can be implemented to ensure appropriate development in these areas.

400238.1 Policy, Power and Politics in Health Care Provision

Credit Points 10 **Level** 7

Assumed Knowledge

Foundations of nursing knowledge, legal and ethical issues in nursing, fundamentals of research, proficiency in academic reading and writing, ability to conceptualise practice within the context of the relevant discipline's professional competencies.

Equivalent Units

HC815A Policy, Power and Politics in Health Care Provision.

Special Requirements

This course is restricted to students enrolled in a postgraduate course.

This unit enables students to gain an understanding of the political and social constructions that underpin health care services. It also provides students with the opportunity to explore and critically analyse issues related to the development, implementation and outcomes of health policies.

300197.1 Power System Planning and Economics

Credit Points 10 **Level** 7

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.

400736.1 Practice Management for Health Professionals (PG)

Credit Points 10 **Level** 7

This unit is aimed to introduce the student to the management issues in establishing and working in a clinical practice. While the unit will cover issues related to health professionals and public sector management, the focus of the unit will be on issues in private practice. The aim of the unit is to introduce the student to a wide range of topics, including an over view of health care funding in Australia, private and public health system, developing a business plan, different business structures, financial management, managing staff and occupational health and safety issues.

400080.2 Practice of Midwifery I

Credit Points 10 **Level** 7

This unit provides students with an introduction to the origins of midwifery in Australia; the social and cultural perspectives of midwifery care and the organisation and function of maternity services in the health care system.

400081.2 Practice of Midwifery II

Credit Points 20 **Level** 7

This unit will examine midwifery care and services using a primary health care focus. It will use local and international issues of perinatal care, maternal mortality and the role of the midwifery profession in projects such as `safe motherhood'. In addition, local midwifery professional issues will be covered.

400412.1 Primary Health Care and its Applications

Credit Points 10 **Level** 7

Equivalent Units

HC814A Fundamentals of Primary Health Care HC807A Applications of Primary Health Care

This unit explores the impact and relevance of Primary Health Care in its context as a World Health Organisation (WHO) strategy for achieving "Health for All". It also examines the ways in which Primary Health Care, along with other significant WHO initiatives, provides a framework for the organisation of a just and humane health care system. 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.

MI810A.2 Principles and Practice of Biotechnology

Credit Points 20 **Level** 7

To provide an understanding of the principles of biotechnology and to demonstrate its applications. In order to understand and keep abreast with the current developments in biotechnology, it is essential to understand the principles underlying it. The topics to be addressed in this unit will include the following: scope of biotechnology, isolation and preservation of industrial micro organisms, principles of recombinant DNA technology, fermentation processes, commercial exploitation of micro organisms, plant cell culture, animal cell culture, social aspects of biotechnology.

400441.1 Professional Osteopathic Management

Credit Points 10 **Level** 7

Incompatible Units

400010 Clinical Practice Management; E7308 Health Law and Ethics

Special Requirements

To undertake this unit, students must comply with the following special requirements: Completion of a Prohibited Persons Declaration; Criminal Record Check Clearance; Students must possess a current, Workcover Authority approved First Aid Certificate; Provide evidence of compliance with the occupational screening and immunisation policy of NSW Health.

Health care professionals require a working knowledge of the law, ethics, and business management. This unit will develop an understanding of Osteopathic ethical and legal concepts and theories, enabling students to apply these to relevant issues in providing Osteopathic health care. This unit will also address the preparation and implementation of business planning for Osteopathic clinical practice management. It will explore how business and people management skills can enhance patient care while contributing to a successful and practice

51240.1 Project Management

Credit Points 10 **Level** 7

This unit provides the philosophy, tools and computerised techniques for effectively managing large projects and programs in any organisation. Topics include project definitions and examples, research and development, benefits and costs of project management, personnel policies, the mechanics of project planning, developing networks, network validation, scheduling and control, resource analysis and control, cost analysis and budgetary control, and training.

400775.1 Project Proposal (Primary Health Care)

Credit Points 10 **Level** 7

Equivalent Units

400415, Research Proposal (Primary Health Care). NU809A, Research Proposal (Primary Health Care).

This unit aims to enable students to apply the research process by developing a proposal addressing a primary health care issue. The development of the proposal gives students the opportunity to critically appraise the literature and plan a project in a specific paradigm, further developing their information retrieval skills as well as extending their knowledge of specific research techniques, and providing the opportunity for writing a proposal for a project pertinent to their workplace.

EY811A.1 Protected Areas Management

Credit Points 10 **Level** 7

Protected Areas are used world-wide as a conservation mechanism for the preservation of biodiversity. This unit examines the management issues specific to Protected Areas. Topics covered include: the process of selection and design of Protected Areas; categories of Protected Areas; the management process and how it is applied specifically to Protected Areas; management of natural resources within Protected Areas and management of threats to the natural resources of Protected Areas.

400416.1 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 – course types 01, 02, 03, 04, 05, 06, 07, 11, 12, or 42.

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.

400546.1 Quality Management in Aged Care

Credit Points 10 **Level** 7

This unit enables students to explore, critically analyse and evaluate the perspective of quality in relation to standards of care for older persons. Students will have the opportunity to develop an understanding of the impact their role and its performance has in the aged care sector. This role is also examined within the wider context of organizations.

MI809A.1 Rapid Methods in Microbiology

Credit Points 10 **Level** 7

This unit aims to provide an understanding of rapid analytical methods in microbiology. Topics include: evaluation of rapid analytical methods; detection of selected pathogens using standard cultural methods and rapid methods; the use of fluorogenic and chromogenic compounds; hydrophobic grid membrane filtration method; direct plating method; membrane filtration; direct epifluoroscent filter techniques; fluorescent antibody techniques; adenosine triphosphate based methods; electrophoresis automated identification methods such as API, BIOLOG and VITEK, gene probes and polymerase chain reaction, enzyme linked immunosorbent assay, reverse passive latex agglutination, latex agglutination, conductance and flow cytometry, and enrichment serology.

400439.2 Reflective Osteopathic Practice

Credit Points 10 **Level** 7

Prerequisite

400434.1 - Clinical Osteopathic Medicine 3 AND **400435.1** - Treatment Planning in Osteopathic Practice AND **400431.1** - Diagnostic Reasoning in Osteopathic Practice

This subject is designed to consolidate the students' skills and experience required in the area of diagnosis, technique, patient and clinic management required to practice osteopathy in the clinical setting. This subject will teach students the skills of the reflective practitioner and teach them to evaluate treatment responses and outcomes as independent practitioners. This subject aims to develop integrated, problem based thought, and develop responsibility as primary contact clinicians.

400429.2 Rehabilitation for Osteopaths

Credit Points 10 **Level** 7

Corequisite

400427.1 - Introduction to Osteopathic Clinical Practice AND **400431.1** - Diagnostic Reasoning in Osteopathic Practice AND **400435.1** - Treatment Planning in Osteopathic Practice AND **400439.1** - Reflective Osteopathic Practice

This unit is designed to develop the students' skills and experience required in the area of rehabilitation and teach them how to integrate rehabilitative approaches into osteopathic clinical care. This unit will teach students the skills of the reflective practitioner and teach them to evaluate rehabilitation treatment approaches in the primary health care setting. This unit will address the implementation of rehabilitation policy, rehabilitation of postural strains, post surgery rehabilitation, sports injuries and third party insurance claims.

51260.1 Research and Development Management

Credit Points 10 **Level** 7

This unit provides concepts, tools and techniques to enable business and technical managers to effectively manage research and development (R&D) activity in their organisations. Topics include the role and scope of R&D in business, the process of technological innovation -- the need for a conceptual approach, technological innovation as a conversion process, factors contributing to successful technological innovation, strategies for R&D -- the role of corporate planning, R&D as a business, resource allocation to R&D, selecting R&D strategy, strategy versus entrepreneurship, creativity and problem-solving -- the creative process, creative individuals -- main characteristics, creativity in innovation, techniques for creative problem-solving. An integrated approach, project selection and evaluation, financial evaluation of R&D projects, R&D program planning and control, organisation of R&D -- definition of organisation, the human resource, leadership style, industrial characteristics, organisation structures, technological forecasting for decision-making -- the need to forecast, the definition of technological forecasting, inputs to and outputs of the forecasting system, classifications and techniques of technological forecasting.

300411.2 Research Methodology and Experimental Design

Credit Points 20 **Level** 8

Special Requirements

Restriction to students enrolled in postgraduate or honours courses.

400421.1 Research Methods for Humanities and Social Sciences

Credit Points 10 **Level** 7

Assumed Knowledge

Students need to be enrolled in a course at the appropriate level

Equivalent Units

Unit was previously coded 53220.

This unit provides core research training within a range of postgraduate courses. It requires the completion of four research topics in the following areas: research theory and design (e.g. epistemology, qualitative & quantitative) specific approaches (e.g. critical discourse analysis, feminist research); data collection methods (e.g. interviews, questionnaires) and methods of analysis (e.g. quantitative & qualitative). This unit is offered in flexible mode according to topic (typically one day's attendance or equivalent per topic). Topics vary each session depending on student demand.

EH838A.1 Research Methods: Science in Context

Credit Points 10 **Level** 7

In this unit, you will be introduced to various schools of research and be encouraged to think eclectically about exploration and investigation within your own interest areas. Rather than think of methods, for example, as quantitative or qualitative, this class will encourage you to work from the problem out. In other words, you will be asked to identify what it is you wish to know about, then develop a methodological approach that can best answer that question. This unit uses experiential learning reinforced by propositional and practical learning. While you are still a 'learner' creating new knowledge and abilities for yourselves, this unit goes a step further as you attempt to become a 'researcher'. As a researcher you will be attempting to create new knowledge not only for yourself, but for others as well. The unit's design is based on the readings, workshops and your own problem solving skills. Your own areas of interest will provide the theme for your learning in this unit.

HT401A.1 Research Philosophy & Methodology (V1)

Credit Points 10 **Level** 5

The aims of this unit are to introduce students to philosophies of learning and to develop their understanding of different approaches to forming new ideas, solving problems and extending knowledge. In particular, the unit seeks to enable students to understand the links between knowledge and the communication of that knowledge. In addition, students learn about the philosophy and language of science through the contributions of senior researchers. Opportunities are provided for students to practise communicating their ideas through both written and oral presentations.

HT805A.2 Research Project 821

Credit Points 20 **Level** 7

The study context of this unit is equivalent to one quarter of the degree course.

HT807A.2 Research Project 831

Credit Points 30 **Level** 7

The study context of this unit is equal to three times that of HT801A.

300399.1 Researching Professional Issues

Credit Points 10 **Level** 7

Prerequisite

300398.1 - Methods of Researching

Equivalent Units

EH839A.1 Masters Research Project (1 semester)

Special Requirements

This unit is restricted to the following courses: 3602, 3603, 3605, 3606, (current courses) 475E, 475A, 473A, 3599, 3596 (legacy courses)

This unit aims to provide students with the opportunity to develop a high level of conceptual understanding in an area of research relevant to their field of study. Students will develop competencies in reviewing academic literature and in the evaluation and conduct of research.

400544.1 Resources Management in Aged Care

Credit Points 10 **Level** 7

An introduction to the history and development of funding models for health and aged services, and how resources should be managed operationally. Students will learn to develop and use budget reports in resource management, including their implications for staffing, equipping, informing and maintaining an aged care service, such as a nursing home, hostel or other community or health related service. Student will also be encouraged to become familiar with the use of information systems within the sector and recognize the importance of managing information as a strategic resource within aged care.

300395.1 Risk Assessment

Credit Points 10 **Level** 7

Equivalent Units

EH843A Risk Assessment

Special Requirements

This unit is restricted to the following courses: 3602, 3603, 3604, 3605, 3606, 3607 (current courses) 475E, 475A, 456S, 456A, 473A, 3599, 3600, 3601, 3596, 3597, 3598, 3568 (legacy courses)

This unit is designed to introduce the postgraduate student to risk assessment, with particular regard to the fields of risk identification, analysis, perception and communication. By gaining an understanding of the principles of risk assessment the student will be able to identify and estimate the relative role of various factors and will be able to effectively communicate risk as part of a risk management strategy.

300390.1 Safety Management

Credit Points 10 **Level** 7

Equivalent Units

EH844A.1 Safety Management

Special Requirements

This unit is restricted to the following courses: 3602, 3603, 3604, 3605, 3606, 3607, 2601, 2631 (current courses) 475E, 475A, 456S, 456A, 473A, 3599, 3600, 3601, 3596, 3597, 3598, 3568 (legacy courses)

This unit provides a critical insight into the theory and practice of managing safety and health at the workplace with a primary focus on safety. Although at the workplace health and safety are inextricably linked, this unit principally provides a forum for the discussion and examination of managing safety. Students have the opportunity to focus on a variety of issues using a safety systems approach. Safety culture and its influence on OHS practice is also detailed and observed. The unit also investigates the approaches used to carry out OHS needs assessment, the implementation of OHS policy and procedure and the necessity of recording and reporting OHS matters. In addition, the unit addresses the legal underpinning of safety management by exploring ILO conventions, the

Robens approach in safety legislation and workers' compensation. Labour market change and the role of government, unions and employer organisations are also examined.

300392.1 Safety Systems Integration

Credit Points 10 **Level** 7

Equivalent Units

EH835A.1 Safety Systems and Risk Management

Special Requirements

This unit is restricted to the following courses: 3602, 3603, 3604, 3605, 3606, 3607 (current courses) 475E, 475A, 456S, 456A, 473A, 3599, 3600, 3601, 3596, 3597, 3598, 3568 (legacy courses)

The principal aim of this unit content is for students to explore the field of safety systems and risk management from a historical, theoretical and practical perspective based on their own organisational or other workplace settings. Candidates will be assisted to develop strategies for communicating safety systems and appropriate risk management strategies for organisation, executive managers, employees and the wider community. Students will learn how to overcome organisational barriers and to implement a variety of safety systems and risk management dependant on the organisation context.

300512.1 Servo Systems Design (PG)

Credit Points 10 **Level** 7

Assumed Knowledge

Equivalent Bachelor of Engineering degree.

This unit will be available from 2007. This unit is intended to extend the knowledge of students in the area of servo-systems in general including pneumatic and hydraulic servo control systems as applicable to manufacturing and process machinery. All aspects of such systems and their integration in automated applications in industry will be discussed including the fluid circuit design, equipment selection and becoming familiar with industry standards. Project based design to be tested in the laboratory under the supervision of technical officers will form part of the unit to provide practical experience with servo-systems.

300200.1 Signal Processing 1

Credit Points 10 **Level** 7

Assumed Knowledge

Engineering mathematics, circuit theory, signals and systems.

This unit provides students with a comprehensive understanding of the principles and techniques in signal processing. Topics include sampling of analogue signals, analysis of digital signals in the time domain and frequency domain, digital filter design, multi-rate signal processing, signal processing hardware and finite word length effects in hardware implementation. Students develop skills of analysing and designing digitial signal processing systems.

400205.1 Social Aspects of Child and Family Health Nursing

Credit Points 10 **Level** 7

Assumed Knowledge

Students require basic knowledge of infant and child health at undergraduate level, augmented with clinical experience as a registered nurse.

This unit gives an overview of family functioning and explores their diversity and complexity by examining differing cultural and social values, beliefs and practices relating to family structure and child rearing practice. It discusses effective family assessment strategies, introduces the concepts inherent in the NSW government's Families First Initiative and addresses the role of child and family health nurses in health promotion activities.

300160.2 Software Interface Design

Credit Points 10 **Level** 3

Equivalent Units

14947, 48544, 61251

Computers have become ubiquitous in human society. Humans are now required in interact with computers and computing technology in almost all parts of their lives, particularly in developed countries. In this context software becomes a medium through which people can be provided with a virtual environment where they can satisfy goals related to work and play. This unit explores the theory and practice of design of the interface between this virtual environment and the people who interact with it.

300204.1 Special Electrical Machines

Credit Points 10 **Level** 7

The unit covers electromagnetic relationships between physical design and machine parameters. It also covers recent developments in PM machines, brushless drives, VR machines, stepper motors, superconducting machines and linear machines.

SC810A.1 Special Issues in Science and Technology

Credit Points 10 **Level** 7

This unit provides the student with an in depth understanding of a specific topic relevant to their field of study. It will include information retrieval techniques as well as written and oral communication skills. In addition, it may include the acquisition of technical skills.

EH849A.1 Special Issues in Sustainable Development

Credit Points 10 **Level** 7

The unit aims to allow students to systematically complete a course of study in one of the main content areas of their postgraduate course. The unit will allow students to undertake a reading program in a specialist area; or to cover a topic in more depth. During the course of the unit, students may develop skills in the following areas: the collection of relevant information; the analysis and critical synthesis of key points; the ability to demonstrate technical expertise, the concise written or oral communication of findings to others. Content will vary depending on the topic of the special issues contract. The contract design will depend on the required number of credit points and should be negotiated with the course coordinator.

51244.1 Statistical Methods for Research

Credit Points 10 **Level** 7

This unit provides an understanding of the concepts and techniques for conducting research in commerce in quantitative and qualitative modes. Research methodology and statistical tools are integrated into this unit with an emphasis on models, methods and data analysis using SPSS for windows software. Topics include research design, concept of variables and measurement, data collection methods and types of data, survey methods design and administration, basic commands in SPSS for data entry, manipulation and analysis, different types of analysis -- bivariate analysis, testing hypothesis, parametric and non-parametric tests, multivariate analysis, factor analysis, discriminant analysis and clusters analysis, qualitative data analysis and triangulation.

88121.1 Steel Structures (PG)

Credit Points 10 **Level** 7

Assumed Knowledge

A sound understanding of structural engineering and materials and competence in structural analysis of redundant structures.

The behaviour of steel members and structures (beams, columns and frames), the appropriate methods to analyse them and the design criteria and methods used to proportion them including the use of Australian Standards.

51109.1 Strategic Analysis and Decision-Making

Credit Points 10 **Level** 7

This capstone unit synthesises concepts and understanding developed in the core of the course. Strategic decisions are those that determine the overall direction of an enterprise and its ultimate viability in the light of the predictable changes that may occur in its environments. Typically, strategic decisions follow an analysis of an enterprise's strengths, weaknesses, opportunities and external constraints. This unit examines these processes, recognising that they cannot be divorced from the interests of stakeholders and the constraints of structure and information networks. The unit places strategic management in an historical context to identify changing trends, in particular the pressures towards internationalisation, globalisation, and gaining a competitive advantage. It critically examines the major theoretical approaches to strategy and emerging trends in this field of study. It analyses how decision-making processes, leadership, and organisational politics impact on the strategic activities of managers. Drawing on various concepts, theories and approaches, a dynamic, contingent and contested view is presented of strategic management. A critical overview is provided of the frameworks and models used in strategic analysis and decision-making. Strategic decisions follow from an analysis of corporate (multi-business), business (competitive) and functional (value-added) level strategies. These strategic processes cannot be divorced from the interests of stakeholders and the negotiated order found in all organisations. Issues relating to the implementation of strategy, particularly in relation to managing change are examined.

H7104.1 Strategic Technology Management

Credit Points 10 **Level** 7

This unit is designed to provide participants with an understanding of the strategic management of technology. It is relevant to managers, engineers, technologists and scientists with current or future responsibilities for managing technological change and innovation. The unit content focuses primarily on strategic technology management at the firm level, though some time will be spent on global issues of technological change that impact on strategic management. Unit material covers two broad themes,

one, the identification of global technology trends and strategies, and the forecasting, selection, integration and commercialisation of new technologies within the firm's product range, and two, the selection and implementation of new technologies to assist in improving productivity and efficiency within the firm's operations. Unit available for masters programs only.

400241.1 Supporting Aged Communities

Credit Points 10 **Level** 7

Equivalent Units

HC806A Supporting Aged Communities

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.

300206.1 Sustainable Design

Credit Points 10 **Level** 7

Designers prescribe the use of our limited materials resources with evey product that transpires from their work. With an informed approach to design, based on a sound knowledge of materials from their origins to their disposal as well as manufacturing processes, systems and technologies, a designer can minimise the impact products have on the global community.

300207.1 Sustainable Futures

Credit Points 10 **Level** 7

Assumed Knowledge

300206 Sustainable Design

If science and planning march under the banner of "everything is possible", design culture must know how to point out a path for these potential possibilities, a path that can be completely opposed to that which technological - scientific development has followed up to now. This unit explores the challenges facing design culture in which the designer must now provide scenarios that visualise some aspects of how the world could be and, at the same time, present it with such characteristics that can be supported by complex ecological equilibria, which are acceptable socially and attractive culturally.

101296.1 The Professional Helping Interview

Credit Points 10 **Level** 7

Assumed Knowledge

Completion of undergraduate degree in any relevant profession working with people. OR: Equivalent approved by unit coordinator.

The unit is designed to enable helping professionals who are not specialist counsellors to understand the difference between assessment, problem-solving and counselling within a single interview, or short sequence of interviews. Skills that encourage clients/patients to talk freely are presented, but the aim is not to train students in counselling as such. The unit focuses on identifying choice points at which counselling may, or may not, be appropriate. Considerable attention will be paid to correct 'reading' of different varieties of client behaviour, including cultural differences.

400221.1 Theoretical Perspectives/Interventions Mental Health Nursing

Credit Points 10 **Level** 7

Assumed Knowledge

Students are required to be registered nurses with a basic knowledge of mental health, mental illness, and assessment processes, augmented with experience in mental health settings.

This unit is designed to extend students' knowledge of nursing theory as it applies to mental health nursing. The unit focuses on the application of theoretical and conceptual frameworks to mental health nursing practice. Students will examine the influence of other disciplines on nursing theory, current trends in mental health nursing theory, and societal influences on nursing theory development. Students will develop skills in identifying the concepts and theories that inform specific nursing interventions and in critically analysing current nursing theories and concepts from a mental health perspective.

88122.1 Timber Structures (PG)

Credit Points 10 **Level** 7

Assumed Knowledge

Students must have knowledge in engineering mechanics and statics at an intermediate level.

This unit covers the basic elements of structural behaviour and design with timber. The unit covers strength, stiffness and ductility in beams, columns and joints made of structural grade timber, as well as plywood elements. Students are given sufficient instruction to enable them to design simple single and multi-storied timber structures. The unit also describes the composition, variety and durability of timber materials so that the most suitable timber for a particular application is chosen in a project.

400435.1 Treatment Planning in Osteopathic Practice

Credit Points 10 **Level** 7

Prerequisite

400430.1 - Clinical Osteopathic Medicine 2 AND 400431.1 - Diagnostic Reasoning in Osteopathic Practice

Corequisite

400434.1 - Clinical Osteopathic Medicine 3

Equivalent Units

400008 Treatment Planning in Osteopathic Practice.

Special Requirements

To undertake this unit, students must comply with the following special requirements: Completion of a Prohibited Persons Declaration; Criminal Record Check Clearance; Students must possess a current, Workcover Authority approved First Aid Certificate; Provide evidence of compliance with the occupational screening and immunisation policy of NSW Health.

This unit is designed to further develop the student's skills and experience required in the area of diagnosis, technique and patient management to practice osteopathy in the clinical setting. It will teach students how to develop a treatment plan for patient management. Students will learn clinical problem-solving and intervention techniques, and integrative thinking. Student's abilities are further developed by accepting responsibility for patients in a supervised clinical setting as primary contact clinicians.

MI807A.1 Water and Wastewater Microbiology

Credit Points 10 **Level** 7

To provide an understanding of the microbiology of water and wastewater and the role of the micro organisms in waste treatment, utilisation and management. The topics addressed will include the following: water and wastewater characteristics, microbial characterisation, nutrient transformations, methods in waste utilisation and, management, industrial effluent treatment process, novel treatment process and recycling technology.

88125.1 Water Resources Engineering (PG)

Credit Points 10 **Level** 7

This unit introduces the aspects of water engineering that relate to water as a resource. It builds on the work in 88118 Water Engineering (PG) and 88123 Foundations and Drainage (PG).

300443.1 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

300251.1 Web Application Development

Special Requirements

Students must be enrolled in a postgraduate-level course in the College of Health and Science.

There is a rapid growth in use of the web to provide information and to conduct various business activities. In order to benefit from the increasing usage, organisations have started to provide more and more information through the web and also to migrate more of its business activities to web based systems. This has required professionals who can design and develop large, complex, maintainable and evolutionary web systems. This unit provides technologies and standards, architecture, design methodologies, metrics for performance measurement, development processes and policies and guidelines required to develop such web systems.

300264.1 Web Site Management and Security

Credit Points 10 **Level** 7

Assumed Knowledge

Students are assumed to know fundamentals of computer networking and data communications and how to create web sites and manage them; knowledge of server-side and browser-side scripting.

Special Requirements

Students must be enrolled in a postgraduate-level course in the College of Health and Science.

Developing and maintaining high quality web sites and services touch on topics from areas as diverse as internet technologies, data communications, traditional computer and network security, web server performance issues and the law, among others. This unit introduces these topics, concentrating on site management, security and web server performance. Recent developments in web security and special features of particular importance to electronic commerce and web services are covered in detail. The unit also helps the student to develop a working knowledge of current legal, copyright, privacy and intellectual property issues.

300389.1 Wireless Networking

Credit Points 10 **Level** 7

Assumed Knowledge

Students should be familiar with the fundamentals of computer networking and data communications. In particular, they should have a good understanding of the OSI model, the Internet protocol suite and current internet and networking technologies equivalent to satisfactory completion of an introductory networking unit at the undergraduate level such as 300086 offered at UWS or one year professional experience in networking. The unit is at an advanced level and students would not be able to complete the unit successfully unless they have a good understanding of fundamental issues in computer networking, Internet protocol suite and Internet technologies.

Special Requirements

Restriction to students enrolled in postgraduate or honours courses owned by the College of Health and Science.

Wireless technologies are amongst the most exciting and rapidly growing areas in computing and information technology. They implement applications that profoundly impact our personal way of communication, as well as how business in a variety of industries and organisations are conducted. This unit goes into details of such issues. It discusses wireless networking technologies and their related applications. The main features of wireless and mobile communication systems and the networked services that are based on these systems are also presented. The unit provides students with an in-depth understanding of relevant protocols, the emerging standards and standard organisations. The students are also introduced to some of the relevant current key research issues of the field.

400570.2 Women's Health in Chinese Medicine 1

Credit Points 10 **Level** 7

Assumed Knowledge

Assumed knowledge equivalent to undergraduate training in TCM. Students must have completed a minimum of two years training in raw Chinese herbal medicine prescribing as part of their overall undergraduate training.

Equivalent Units

400570.1 Women's Health in Chinese Medicine 1

This unit enables practitioners to extend their understanding of a range of gynaecological and obstetric disorders and to diagnose and treat these using acupuncture and patent herbal medicines. The clinical focus of this unit is on the integration of Traditional Chinese Medicine (TCM) in the treatment of disorders of the menstrual cycle, obstetric disorders, menopause and breast disease.

400571.2 Women's Health in Chinese Medicine 2

Credit Points 10 **Level** 7

Assumed Knowledge

Assumed knowledge equivalent to undergraduate training in TCM. Students must have completed a minimum of two years training in raw Chinese herbal medicine prescribing as part of their overall undergraduate training.

Equivalent Units

400571.1 Women's Health in Chinese Medicine 2

This unit enables practitioners to extend their understanding of a range of gynaecological and obstetric disorders and to diagnose and treat these primarily using Chinese herbal medicine. The clinical focus of this unit is on the integration of Traditional Chinese Medicine (TCM) in the treatment of complex disorders of the menstrual cycle, infertility, obstetric disorders, menopause, pelvic and breast disease.

400545.1 Workforce Planning and Human Resources Issues in Aged Care

Credit Points 10 **Level** 7

The changing demands on, and expectations of the aged care sector together with labour market, demographics, sociological and cultural trends, , pose significant challenges to the public sector, charitable and private organisations intending to recruit and retain highly performing people. It is generally acknowledged that a high performing workforce, with the appropriate knowledge and expertise, is essential to the efficient and effective delivery of quality professional service. Successful organisations are managing the “people factor” in a way that is cognizant of the importance of linking people management and the development of organizational capability to business success. 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.There is a range of approaches to workforce planning and each organisation needs to identify the elements best suited to its environment and tailor its approach to workforce planning accordingly. This unit provides the student with the overarching principles for workforce planning that can be applied to an organisation to suit its management, culture ad activities.

300437.1 XML and Web Services

Credit Points 10 **Level** 7

Assumed Knowledge

Ability to develop web sites; knowledge of server-side and browser-side scripting.

Special Requirements

Students must be enrolled in a postgraduate-level course in the College of Health and Science.

Web Services is a fast growing area of web-based application development. It goes further than, and is built upon, web site and enterprise-wide applications, which have been the main focus of web development so far. Web services go beyond the boundaries of a single organisation and make it possible to seamlessly bind several applications from one or more organisations to give a consolidated or unified service to users. The challenges to application development thus come from multiple sources and are more complex than until now. There are new technologies, protocols and standards to master and issues like security, trust and performance to address that again transcend the normal organisational limits. In a layered approach to understand web development, if layer one is web site, then layer two is web-based application within an enterprise and web services form layer three, straddling one or more applications, not all of them necessarily web-based and one or more organisations. This unit will cover the technologies, standards and protocols essential for web services and the issues that must be addressed for their success.

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