

Health and Science Schools

Electronic Undergraduate Handbook 2019

Western Sydney University

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

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About the Health and Science Schools Electronic Undergraduate Handbook

Sessions and dates

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

The dateline is available at:

https://www.westernsydney.edu.au/currentstudents/current_students/dates/2019_academic_year_dateline.

Unit outlines

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

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

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

Unit not listed?

If the unit you are looking for is not in the alphabetical units section, consult your course coordinator for details or check the unit search web page for updated details on all units offered in the current year at:

http://handbook.westernsydney.edu.au/hbook/UNIT_SEARCH.ASP.

Prerequisites, co-requisites and assumed knowledge

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

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

Academic credit

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

Electives and cross-discipline study

Electives are available in many courses. These may be selected from pools of electives listed under various courses.

Western Sydney University also actively encourages students to take elective units in disciplines other than their major area of study. Students should seek advice from their course coordinator in the first instance.

How to use this electronic book

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

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

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

Check website for updates

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

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

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SCHOOL OF MEDICINE

Doctor of Medicine

4758.1

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year for this course is 2019 or later.

The Doctor of Medicine (MD) prepares you to be a doctor who can work safely, competently and effectively across the continuum of medical practice and to enter training in any medical specialty. You will learn through experience and immersion in a broad range of hospital and community-based services throughout the five-year program. From the first weeks, you will learn from real patients, supported by small group collaborative learning at the bedside and on campus. In the first two years, you will learn to apply the biomedical sciences to clinical problems, acquire and practice clinical and research skills. With guidance, you will build your personal learning journey by creating a portfolio of evidence of your learning. After second year, students with a passion for research may choose to do an additional year to gain the Bachelor of Medical Research. In the third year, you will extend and apply your knowledge and practical skills in full-time clinical and community placements and commence a significant project, and complete the requirements for the Bachelor of Clinical Science. In the fourth and final years, you will build your clinical experience through placements in speciality and subspecialty medicine, ranging from major metropolitan hospitals to general practices and Aboriginal medical services in rural and remote areas. During this final phase, you will complete your project and portfolio to graduate with Doctor of Medicine and a Bachelor of Clinical Science.

Study Mode

Five years full-time.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal

Accreditation

The Western Sydney University medical program is fully accredited by the by the Australian Medical Council. Graduates will be eligible for registration as a medical practitioner by the Australian Health Practitioner Regulation Agency.

Inherent requirements

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

Admission

There are multiple entry pathways to the MD course.

Prospective applicants are directed to the School of Medicine webpage to determine appropriate entry category and pathway.

Requirements for local (domestic) applicants are below

MD Admission Criteria

To be eligible for a place in MD, applicants must meet three criteria

Criteria 1 – Academic Rank

Non Greater Western Sydney applicants - ATAR (or equivalent) of 95.5

Equivalency: IB 37 or higher; OP1 to 3; GCE of A*A*AA or higher

1 semester full time GPA = 6.5

1 year full time GPA = 6.1

Between 1 year and 3 years GPA = 6.0

Completed degree (including postgraduate studies) GPA = 5.6

Greater Western Sydney applicants - ATAR (or equivalent) of 93.5

Equivalency: IB 36 or higher; OP 1 to 4

1 semester full time GPA = 6.0

1 year full time GPA = 5.7

Between 1 year and 3 years GPA = 5.5

Completed degree GPA = 5.1

Criteria 2 – Aptitude Test

Applicants must sit the allocated aptitude test. The level of achievement the University requires will vary each year, determined by the performance of all applicants competing for a place in the MD course and will not be disclosed.

Criteria 3 - Interview

The interview will take the format of a Multi-station Mini Interview (MMI). Applicants invited to interview are asked a series of questions; each question is asked by a separate interviewer in a separate interview station. Interview places are reserved for Western Sydney and Rural background applicants.

Applicants with current or previous university study:

The applicant will be assessed on their GPA. Where an applicant has completed a degree, only the most recent GPA of all study attempted will be considered. Qualifications that are more than 10 year old prior to the year of entry will not be considered. No deferrals will be accepted for this course

Additional information

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

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

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

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

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

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

Special Requirements

Students are required to obtain and provide all necessary documentation to be verified by NSW ClinConnect. This verification is a requirement of the NSW Health Department for all students enrolled in medical programs. If a student fails to produce this documentation to ClinConnect they will not be able to attend hospital and health service teaching sessions, and placements. Attendance is a mandatory requirement of the course to ensure that professional competencies are met. Failure to attend will result in a 'CF' (Compulsory Fail) of the unit. Documents that must be provided to ClinConnect are: 1. National Police Certificate; 2. Adult Health Immunisation Schedule; 3. Code of Conduct Agreement. Students must also meet the inherent requirements of the course as outlined in the University of Western Sydney Inherent Requirements for Medicine: (www.uws.edu.au/ir/inherent_requirements/inherent_requirements_for_medicine_courses). Inherent requirements are personal capabilities which are essential for achieving the learning outcomes of the Course or Unit in a way that will preserve the integrity of the University's teaching, learning and assessment standards and the accreditation requirements for the course. The Disability Education Standard, Section 3.4 (3) states: "In assessing whether an adjustment to the Course, Unit of the Course or program in which the student is enrolled, or proposes to be enrolled, is reasonable, the provider is entitled to maintain the academic requirements of the Course or program, and other requirements or components that are inherent in or essential to its nature. Note: In providing for students with disabilities, a provider may continue to ensure the integrity of its Courses or programs and assessment requirements and processes, so that those on whom it confers an award can present themselves as having the appropriate knowledge, experience and expertise implicit in the holding of that particular award." Essential Equipment: 1. Stethoscope; 2. Pencil torch; 3. White laboratory coat; 4. Watch (with a second hand or display).

Course Structure

Qualification for the award requires the successful completion of 400 credit points including the units listed in the sequence below.

Year 1

Autumn

401276.1 Clinical Sciences 1

Spring

401276.1 Clinical Sciences 1

Year 2

Autumn

401277.1 Clinical Sciences 2

Spring

401277.1 Clinical Sciences 2

Years 3-5

In Years 3, 4 and 5 of the MD, you will apply and extend the knowledge and skills gained in previous units by being immersed in clinical and community placements, further developing your professional competencies. Placements include Surgery, Medicine, Critical Care, Obstetrics and Gynaecology, Paediatrics, Mental Health, Aboriginal and Torres Strait Islander Health, Oncology and Medicine in Context (MiC) rotations. These will take place at Campbelltown, Camden, Blacktown, Mt Druitt, Bankstown, Fairfield and Liverpool hospitals and community organisations throughout Greater Western Sydney and rural NSW. You will continue to build your professional Portfolio to create a record of your learning and achievements by graduation, and to complete requirements for your MD Project, with further training and allocated rotation time in Years 3 and 4 to do so.

Bachelor of Clinical Science (Exit Only)

4759.1

This is an exit award only. Students may choose to exit the Doctor of Medicine after completing 240 Credit Points with the degree of Bachelor of Clinical Science.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal

Admission

The Bachelor of Clinical Science will not be offered to commencing students. It will be made available only as an exit point for Doctor of Medicine students.

Prospective applicants are directed to the School of Medicine webpage to determine appropriate entry category and pathway.

Bachelor of Medical Research

4647.3

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

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

The Bachelor of Medical Research is not a stand-alone degree, but is designed to be undertaken in combination with the Bachelor of Medicine / Bachelor of Surgery (MBBS) or the Doctor of Medicine (MD). Students must have completed at least 160cp of their primary medicine degree in order to enrol in the Bachelor of Medical Research. The Bachelor of Medical Research gives students the opportunity to develop their critical thinking and gain a more detailed experience in medical research than is provided in their medical course. Students undertake a medical research project while developing skills in identifying relevant literature, scientific research methods, and the correct protocols for developing and conducting a research project with the assistance of a supervisor. Students are expected to participate in research seminars and present the results of their research as a dissertation.

Study Mode

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

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal
Campbelltown Campus	Part Time	Internal

Admission

Must be currently enrolled in Bachelor of Medicine and Bachelor of Surgery (MBBS) or Doctor of Medicine (MD) at Western Sydney University, and have successfully completed at least 160cp of that course, with a Grade Point Average (GPA) of 5 (credit average), before being admitted to year 3 of the intercalated Bachelor Medical Research.

Special Requirements

Students must be compliant with NSW Health Legislation requirements and have the following. 1. National Police Certificate (verified by NSW Health) and submitted to Student Central 2. Working with Children Check 3. Student Undertaking 4. First Aid Certificate (including Cardiopulmonary Resuscitation –updated yearly) 5. Completed Adult Immunisation Card (verified by NSW Health) Completed documentation of compliance with NSW Health Records and Information Privacy Act

Course Structure

Qualification for this award requires the successful completion of 240 credit points, which include:

Year 1 and 2 of the Bachelor of Medical Research are Advanced Standing, comprising of 160 credit points of the Bachelor of Medicine / Bachelor of Surgery (MBBS) program or the Doctor of Medicine (MD) program

The Bachelor of Medical research is an 80 credit point intercalated program, which can be taken following the 2nd, 3rd or 4th year of the MBBS or MD program, comprised of a compulsory 60 credit point yearlong unit, 400813 - Medical Research Project, and two existing course work combinations, totalling 20 credit points over two semesters, as shown below

1H session

400813.2 Medical Research Project

Autumn session

400864.3 Research Methods (Quantitative and Qualitative)

2H session

400813.2 Medical Research Project

Spring session

400863.2 Foundations of Research and Evidence-Based Practice

Note: This program is available only to students who are selected into the University's Bachelor of Medicine and Bachelor of Surgery (MBBS) or Doctor of Medicine (MD) programs.

Note: Students may apply for leave of absence from MBBS or MD (for one year full-time or two years part-time) and admission to the B Med Res once they have completed 160cp of MBBS or MD, and will normally be required to have a credit average in MBBS or MD at the time they apply.

Note: Year 3 of the Bachelor of Medical Research will most commonly be undertaken between Years 2 and 3 or between Years 3 and 4 of the MBBS or MD. It will not normally be possible to enrol for the Bachelor of Medical Research once Year 5 of MBBS or MD has been completed, because of the need for current clinical skills as the graduates progress into the following Intern year.

SCHOOL OF NURSING AND MIDWIFERY

Bachelor of Midwifery

4684.3

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

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

This course prepares graduates for eligibility to apply for registration throughout Australia as a beginning professional registered midwife. This course will develop midwives for the future who can integrate local and international knowledge for the benefit of pregnant and birthing women in Greater Western Sydney, and beyond. Graduates will work in partnership with women (and their families) in order to provide effective 'woman centred' care. Graduates from Western Sydney University will practice according to the International Definition of the Midwife and the Australian Nursing and Midwifery Council Midwife standards for practice. Students will apply critical, reflective and intellectual skills to the provision of evidence based midwifery care. The acquisition of midwifery knowledge and skills occurs initially in campus-based simulated clinical practice settings and consolidation occurs as students undertake clinical placements in a variety of health care settings. Prospective students should be aware that full disclosure of any issues of impairment or misconduct is a declaration requirement when applying for registration as a registered midwife.

Study Mode

Three years full-time.

Location

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Full Time	Internal

Accreditation

The Bachelor of Midwifery has accreditation and approval from the Nurses and Midwives Board Australia. From 1 July 2010 the approval, recognition and accreditation of courses has been transferred to the Australian Nursing and Midwifery Council (ANMAC). Course accreditation can be checked on their website. <http://www.anmac.org.au/accreditation-services>. Please note: from 1 July 2010 practitioners applying for registration as a nurse or midwife for the first time in Australia are required to demonstrate English language proficiency as specified by the Nursing and Midwifery Board of Australia (NMBA). These requirements include: a) the IELTS examination (academic module) with a minimum score of 7 in each of the four components (listening, reading, writing and speaking); or b) completion and an overall pass in the Occupational English Test (OET) with grades A or B only in each of the four

components. For further details, refer to the NMBA website <http://www.nursingmidwiferyboard.gov.au/Registration-Standards.aspx>

Inherent requirements

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

Admission

Selection is on the basis of

Academic merit (ATAR or its equivalent), and

Performance at an interview, conducted by the School of Nursing and Midwifery.

No provision for direct entry with the exception of Western Sydney University alternative entry pathways for Aboriginal and Torres Strait Islanders.

IELTS score of 7 with no band or subtest less than 6.5.

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

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

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

Special Requirements

On Campus Students

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

1. National Criminal History Check: Students must have a current (expiring 3 years from date of issue) check valid for their entire course. A valid National Criminal history check must be an Australia wide check, include the student's full name matching their Student ID card and date of birth and not have any offences listed. If a student has a criminal history identified on their check, they must provide a Clinical Placement Authority Card (CPAC) or conditional letter from the NSW HealthShare Employment Screening and Review Unit
2. A NSW Working with Children Check (WWCC) clearance letter issued under the category of volunteer valid for their entire course.
3. A current approved first aid certificate valid for their entire course, approved provider courses can be found at
4. A completed vaccination/immunisation card with all serology results containing expiry dates and currency must be maintained by the student to ensure compliance for their entire course.

5. NSW Undertaking/Declaration form
6. Completed any additional health forms required (such as NSW Health Code of Conduct, Health Student Undertaking/Declaration and Tuberculosis (TB) Assessment Tool)
7. Relevant Local Health District specific documentation as requested.

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

Course Structure

Qualification for this award requires the successful completion of 240 credit points including the units listed in the recommended sequence below.

Full-time

Year 1

Autumn session

- | | |
|-----------------|-----------------------------------|
| 401001.2 | Primary Health Care in Action |
| 401002.2 | Bioscience 1 |
| 401030.2 | Midwifery Knowledge 1 |
| 401219.1 | Midwifery Professional Practice 1 |

2H session

- | | |
|-----------------|-----------------------------------|
| 401220.1 | Midwifery Professional Practice 2 |
|-----------------|-----------------------------------|

Spring session

- | | |
|-----------------|--|
| 401005.2 | Human Relationships and Life Transitions |
| 401031.2 | Bioscience for Midwifery |
| 401032.2 | Midwifery Knowledge 2 |

Year 2

1H session

- | | |
|-----------------|-----------------------------------|
| 401221.1 | Midwifery Professional Practice 3 |
|-----------------|-----------------------------------|

Autumn session

- | | |
|-----------------|--|
| 401206.1 | Aboriginal and Torres Strait Islander Health |
| 401208.1 | Research for Nursing and Midwifery |
| 401034.2 | Midwifery Knowledge 3 |

2H session

- | | |
|-----------------|-----------------------------------|
| 401222.1 | Midwifery Professional Practice 4 |
|-----------------|-----------------------------------|

Spring session

- | | |
|-----------------|---|
| 401013.2 | Promoting Mental Health and Wellbeing 1 |
| 401036.2 | Complex Care 1 |
| 401037.2 | Legal and Ethical Issues in Midwifery |

Year 3

1H session

- | | |
|-----------------|-----------------------------------|
| 401223.1 | Midwifery Professional Practice 5 |
|-----------------|-----------------------------------|

Autumn session

- | | |
|-----------------|----------------|
| 401039.2 | Complex Care 2 |
|-----------------|----------------|

- | | |
|-----------------|---|
| 401040.2 | Collaborative Care |
| 401225.2 | Psychosocial Issues in the Perinatal Period |

2H session

- | | |
|-----------------|---|
| 401224.1 | Midwifery Professional Practice 6 |
| 401226.1 | Midwifery Practice - Global Maternal Health |

Spring session

- | | |
|-----------------|--|
| 401021.3 | Being a Professional Nurse or Midwife |
| 401213.1 | Clinical Leadership and Professional Relationships |

Midwifery Practice Experience

To enable students to experience midwifery practice across the calendar year as required by ANMAC, all Midwifery Professional Practice units (MPP's) are offered as 'H' units. The major types of experiences are in blocks of learning and in a woman-centred continuity of care model. Practice experiences for the Bachelor of Midwifery are documented within the practice units.

Practice Block

A number of practice experiences, in a variety of practice placements, are scheduled throughout the three year course. There are fewer hours of clinical practice in first year (approximately 25%) compared to second year (50%), with the most clinical practice allocated to the third year (75%) to enable students to consolidate their practice in readiness to meet the NMBA Competencies for practice as a midwife.

This practice occurs in blocks of time (from one day a week to five days per week) and includes working in hospital areas such as antenatal clinics; antenatal wards; birthing units; postnatal wards; newborn nursery; postnatal home visiting; operating theatres for caesarean sections; ultrasound clinics; fetal and maternal assessment units and gynaecology wards. The practice also includes working in such areas as community centres with child and family nurses; midwives in group practice; rural hospitals; and ambulance services.

Continuity of Care

Continuity of care/carer enables women to develop a relationship with the same caregiver(s) throughout pregnancy, birth and the postnatal period. Continuity of care/carer facilitates relationships and consistent information, which is essential to the provision of care that is safe, sensitive and appropriate. Students undertaking this course will be introduced to the theoretical concepts and evidence base for continuity of care/carer model within the Midwifery Knowledge units. Continuity of care/carer experience will be gained within the Midwifery Practice Experience units. Throughout the course, students will refine and develop their understanding of continuity of care/carer, underpinned by a woman-centred care philosophy, where women are involved in their own care, making informed choices and having control over both their care and their relationships with their caregivers. In this relationship-based care model, women generally feel that their choices are respected and supported (Johnson & Stewart, 2003). Students will follow 10 women over the course of the Bmid within this model of care; two women in

the first year, three in the second year and five in the third year.

Students will begin their first midwifery practice placement within eight weeks of commencing the course in the Autumn semester or as soon as they have met all the pre-requisites. Students will attend well women's antenatal clinics on a weekly basis and begin by observing the practice of midwifery care. They will practice their midwifery skills on campus and as they gain confidence they will begin to have a more 'hands on' approach under the supervision of a midwife. During the antenatal clinic placements it is expected that students will meet and work in partnership with women in the continuity of care model. Students will follow the women throughout their pregnancy, labour and birth and during the postnatal period for up to six weeks as determined by the woman, and the supervising midwife. This may include visits to the woman's home.

The practice blocks, together with the 10 continuity of care experiences across the calendar year, provide the Bachelor of Midwifery curriculum with approximately fifty percent clinical practice and fifty percent theory, which is a requirement of ANMAC.

Bachelor of Nursing

4691.3

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course was 2019 or later.

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

This course prepares graduates for eligibility to apply for registration throughout Australia as a registered nurse. The focus of the course is on inquiry-based learning, critical thinking and reflective practice in relation to the theory and practice of nursing in health and health breakdown across the lifespan. Using a primary health care framework, students study the application of physical and behavioural sciences to nursing; inquiry and evidence-based practice principles and utilisation within nursing; nursing care of individuals, families and groups from diverse backgrounds across the lifespan. The acquisition of nursing knowledge and skills occurs initially in campus-based simulated clinical practice settings and consolidation occurs as students undertake clinical placements in a variety of health care settings. Prospective students should be aware that full disclosure of any issues of impairment or misconduct is a declaration requirement when applying for registration as a registered nurse.

Western Sydney University Online Students: Please refer to Western Sydney University Online website for Course Advice.

Study Mode

Three years full-time on-campus, four years full-time WSU Online.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal
Hawkesbury Campus	Full Time	Internal
Liverpool Campus	Full Time	Internal
Parramatta Campus - Victoria Road	Full Time	Internal
WSU Online	Full Time	Multi Modal

Advanced Standing

Recognition of Prior Learning (RPL) - On Campus and Western Sydney University Online

- Certificate III will not be awarded the Unspecified Credit Elective as RPL
- Certificate IV Health or Community Related e.g. Aged Care, Children's Services, Assistant in Nursing will not be awarded the Unspecified Credit Elective as RPL
- Enrolled Nurse/ Division 2 Nurse – Diploma With current registration will not be awarded the Unspecified Credit Elective
- Enrolled Nurse/ Division 2 Nurse – Certificate IV with current registration will not be awarded the Bioscience 1 or the Unspecified Credit Elective
- Enrolled Nurse/ Division 2 – Advanced Certificate with current registration will not be awarded the Bioscience 1 or the Unspecified Credit Elective
- Overseas RN – Diploma level (Not post-secondary school) will not be awarded the Bioscience 1 or the Unspecified Credit Elective
- Overseas RN – Certificate level will not be awarded the Bioscience 1 or the Unspecified Credit Elective

Accreditation

The Bachelor of Nursing has accreditation and approval from the Nurses and Midwives Board Australia. From 1 July 2010 the approval, recognition and accreditation of courses has been transferred to the Australian Nursing and Midwifery Accreditation Council (ANMAC). Course accreditation can be checked on their website <http://www.anmac.org.au/accreditation-services>. The WSU Online Bachelor of Nursing offering is pending accreditation by the Australian Nurses and Midwives Accreditation Council (ANMAC). Please note: from 1 July 2010 practitioners applying for registration as a nurse or midwife for the first time in Australia are required to demonstrate English language proficiency as specified by the Nursing and Midwifery Board of Australia (NMBA). These requirements include either a) the IELTS examination (academic module) with a minimum score of 7 in each of the four components (listening, reading, writing and speaking); or b) completion and an overall pass in the Occupational English Test (OET) with grades A or B only in each of the four components. For further details, refer to the NMBA website: <http://www.nursingmidwiferyboard.gov.au/Registration-Standards.aspx>

Inherent requirements

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

Admission

Admission Criteria for the Bachelor of Nursing On-campus

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

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

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

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

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

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

An additional admission requirement for International applicants is achievement of at least an IELTS 6.5 with no band or subtest less than 6.0 or equivalent.

No provision for direct entry, with the exception of Western Sydney University alternative entry pathways for Aboriginal and Torres Strait Islander peoples, and those students who have satisfactorily completed appropriate Foundation programs with Western Sydney University, The College. An additional admission requirement is for applicants to achieve an IELTS 6.5 with no band or subtest less than 6.0 or equivalent.

Admission to the Bachelor of Nursing offered through Western Sydney University Online

Western Sydney University Online students apply for admission to this course directly through Western Sydney University Online Course Consultants. A student's eligibility will be assessed according to the existing admission criteria as described above. RPL will be awarded as per the criteria described above.

International students are not eligible for enrolment into the Bachelor of Nursing offered through Western Sydney University Online.

Special Requirements

On Campus Students

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

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

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

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

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

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

5. NSW Undertaking/Declaration form

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

7. Relevant Local Health District specific documentation as requested.

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

For Online Students

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

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

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

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

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

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

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

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

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

Course Structure

Qualification for this award requires the successful completion of 240 credit points including the units listed in the recommended sequence below.

Campbelltown, Hawkesbury, Liverpool and Parramatta campuses

Full-time

Year 1

Autumn session

401000.2	Professional Practice Experience 1
401001.2	Primary Health Care in Action
401002.2	Bioscience 1
401205.1	Professional Communication in Nursing

Spring session

401004.2	Professional Practice Experience 2
401005.2	Human Relationships and Life Transitions
401006.2	Bioscience 2
401007.2	Approaches to Professional Nursing Practice

Year 2

Autumn session

401008.2	Professional Practice Experience 3
401206.1	Aboriginal and Torres Strait Islander Health
401207.1	Health Variations 1 - Perioperative
401208.1	Research for Nursing and Midwifery

Spring session

401012.2	Professional Practice Experience 4
401013.2	Promoting Mental Health and Wellbeing 1
401209.1	Health Variations 2 - Chronic Illness and Disability
401210.1	Health Variations 3 - Acute Exacerbations of Chronic Conditions

Year 3

Autumn session

401016.2	Professional Practice Experience 5
401017.2	Promoting Mental Health and Wellbeing 2
401211.1	Health Variations 4 - Acute Life Threatening Conditions
401212.1	Health Variations 5 - Palliative and End of Life Care

Spring session

401020.3	Professional Practice Experience 6
401021.3	Being a Professional Nurse or Midwife
401213.1	Clinical Leadership and Professional Relationships

And one elective

Western Sydney University Online

The Bachelor of Nursing offered through Western Sydney University Online will conduct compulsory on-campus residential intensives for each Professional Practice Experience unit.

Trimester 1

401001.2	Primary Health Care in Action
401205.1	Professional Communication in Nursing

Trimester 2

401000.2	Professional Practice Experience 1
401002.2	Bioscience 1

Trimester 3

401005.2	Human Relationships and Life Transitions
401007.2	Approaches to Professional Nursing Practice

Trimester 4

401004.2	Professional Practice Experience 2
401006.2	Bioscience 2

Trimester 5

401206.1	Aboriginal and Torres Strait Islander Health
401208.1	Research for Nursing and Midwifery

Trimester 6

401008.2	Professional Practice Experience 3
401207.1	Health Variations 1 - Perioperative

Trimester 7

401013.2	Promoting Mental Health and Wellbeing 1
401209.1	Health Variations 2 - Chronic Illness and Disability

Trimester 8

401012.2	Professional Practice Experience 4
401210.1	Health Variations 3 - Acute Exacerbations of Chronic Conditions

Trimester 9

401017.2	Promoting Mental Health and Wellbeing 2
401211.1	Health Variations 4 - Acute Life Threatening Conditions

Trimester 10

401016.2	Professional Practice Experience 5
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401212.1 Health Variations 5 - Palliative and End of Life Care

Trimester 11

401213.1 Clinical Leadership and Professional Relationships
401021.3 Being a Professional Nurse or Midwife

Trimester 12

401020.3 Professional Practice Experience 6

And one elective

Elective Unit

The elective unit in the Bachelor of Nursing may be chosen from across the University, provided that unit pre-requisites are met, space is available and students are able to meet all scheduled activities without compromising any nursing unit requirements.

The following are elective units in the Nursing discipline area which are not listed elsewhere in the Handbook. Some of these units are open to students from across the University provided that prerequisites are met and space is available.

400958.3 A Field Study: Comparative Studies of Health Care Delivery
401242.1 An Introduction to Contemporary Aboriginal Australia
400621.2 Bugs and Drugs
401196.1 Contemporary Issues in Child and Adolescent Health
400961.1 Drugs on Line
401237.1 Maternal and Infant Health Care
401240.1 Risk Mitigation and Ethics for Australian Health Professionals

Professional Practice Experience

The Professional Practice Experience is the foundation for student learning in the course. It consists of two major learning contexts for students: professional practice and simulation. Professional practice in the health care sector may take place in any level of the health service appropriate to the focus for the specific Professional Practice Experience unit, for example aged care facilities, hospitals, General Practitioner practices, community health teams. This environment is essential for providing students complexity of the nursing experience, the ability to apply learning in situations involving ill persons, and socialises students into the work domain.

Simulation is a teaching and learning strategy where aspects of the professional practice environment, such as a hospital ward or patient, are artificially created on campus to enable students to learn in a safe, non-threatening environment. Clinical Practice Units, simulated professional practice environments, will be used to allow students to undertake learning activities related to all core nursing skills such as administering medications and monitoring a patient's condition. The School has a wide range of simulation equipment and dedicated high fidelity simulation rooms on each campus.

The percentage of time spent by students in each context will vary depending on the stage of the student in the

course, the theoretical knowledge already acquired and the stage of competency development. For example at the beginning of the course more hours will be spent in the simulation context than in the health care sector. As the course progresses there is a scaling up of hours spent in the health care sector with fewer hours being spent in the simulation context. In the final session of third year a significant proportion of knowledge and skills consolidation will occur primarily in a clinical practice environment.

Bachelor of Nursing (Advanced)

4693.4

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2019 or later.

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

This course prepares graduates for eligibility to apply for registration throughout Australia as a registered nurse. The focus of the course is on inquiry-based learning, critical thinking and reflective practice in relation to the theory and practice of nursing in health and health breakdown across the lifespan. Students study the application of physical and behavioural sciences to nursing; inquiry and evidence-based practice principles and utilisation within nursing; nursing care of individuals, families and groups from diverse backgrounds across the lifespan. The acquisition of nursing knowledge and skills occurs initially in campus-based simulated clinical practice settings and consolidation occurs as students undertake clinical placements in a variety of health care settings. Prospective students should be aware that full disclosure of any issues of impairment or misconduct is a declaration requirement when applying for registration as a registered nurse. Students should also be aware that the regulatory authority (the Nursing and Midwifery Board of Australia) may have additional criteria that the student will need to meet prior to registration to practice being granted such as an English language skills registration standard is also applicable to all students applying for registration.

Students in the Bachelor of Nursing (Advanced) will follow a similar study program set out for the Bachelor of Nursing. However there will be six units of study that engage students in additional learning, assessment and professional practice activities and opportunities. Each student will be allocated an Academic Mentor at the beginning of the second year of the program. Students are encouraged to participate in scholarly activities that will further enhance their knowledge and skills.

To maintain their enrolment in the Bachelor of Nursing (Advanced) students must maintain a Grade Point Average (GPA) of 5.5 or above, otherwise they will be transferred to the 4691 – Bachelor of Nursing course. At enrolment students will be required to sign a declaration acknowledging the requirement to maintain a GPA greater than or equal to 5.5.

The Bachelor of Nursing (Advanced) does not offer Recognition of Prior Learning credit except if transferring from 4691 Bachelor of Nursing.

Study Mode

Three years full-time.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal
Hawkesbury Campus	Full Time	Internal
Liverpool Campus	Full Time	Internal
Parramatta Campus - Victoria Road	Full Time	Internal

Accreditation

The Bachelor of Nursing (Advanced) has accreditation and approval from the Nurses and Midwives Board NSW. From 1 July 2010 the approval, recognition and accreditation of courses has been transferred to the Australian Nursing and Midwifery Accreditation Council (ANMAC). Course accreditation can be checked on their website: <http://www.anmac.org.au/accreditation-services> Please note: from 1 July 2010 practitioners applying for registration as a nurse or midwife for the first time in Australia are required to demonstrate English language proficiency as specified by the Nursing and Midwifery Board of Australia (NMBA). These requirements include either a) the IELTS examination (academic module) with a minimum score of 7 in each of the four components (listening, reading, writing and speaking); or b) completion and an overall pass in the Occupational English Test (OET) with grades A or B only in each of the four components. For further details, refer to the NMBA website: <http://www.nursingmidwiferyboard.gov.au/Registration-Standards.aspx>

Inherent requirements

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

Admission

Students who are likely to attract a Western Sydney University ATAR of more than 90 may apply for admission via UAC or transfer as a post Year 1 Bachelor of Nursing student with a GPA of greater than 6.0.

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

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

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

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

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

Special Requirements

On Campus Students

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

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

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

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

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

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

5. NSW Undertaking/Declaration form

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

7. Relevant Local Health District specific documentation as requested.

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

Course Structure

Qualification for this award requires the successful completion of 240 credit points including the units listed in the recommended sequence below.

Full-time

Year 1

Autumn session

401000.2	Professional Practice Experience 1
401001.2	Primary Health Care in Action
401002.2	Bioscience 1
401205.1	Professional Communication in Nursing

Spring session

- 401004.2 Professional Practice Experience 2
- 401005.2 Human Relationships and Life Transitions
- 401006.2 Bioscience 2
- 401007.2 Approaches to Professional Nursing Practice

Year 2**Autumn session**

- 401008.2 Professional Practice Experience 3
- 401206.1 Aboriginal and Torres Strait Islander Health
- 401207.1 Health Variations 1 - Perioperative
- 401214.1 Research for Nursing (Advanced)

Spring session

- 401012.2 Professional Practice Experience 4
- 401013.2 Promoting Mental Health and Wellbeing 1
- 401215.1 Health Variations 2 Advanced - Chronic Illness and Disability
- 401210.1 Health Variations 3 - Acute Exacerbations of Chronic Conditions

Year 3**Autumn session**

- 401016.2 Professional Practice Experience 5
- 401025.2 Promoting Mental Health and Wellbeing 2 (Advanced)
- 401216.1 Health Variations 4 (Advanced) - Acute Life Threatening Conditions
- 401212.1 Health Variations 5 - Palliative and End of Life Care

Spring session

- 401020.3 Professional Practice Experience 6
- 401027.2 Being a Professional Nurse (Advanced)
- 401217.1 Clinical Leadership in Nursing (Advanced)

And one elective

Elective Unit

The elective unit in the Bachelor of Nursing (Advanced) may be chosen from across the University, provided that unit pre-requisites are met, space is available and students are able to meet all scheduled activities without compromising any nursing unit requirements.

The following are elective units in the Nursing discipline area which are not listed elsewhere in the Handbook. Some of these units are open to students from across the University provided that prerequisites are met and space is available.

- 400621.2 Bugs and Drugs
- 400961.1 Drugs on Line
- 400958.3 A Field Study: Comparative Studies of Health Care Delivery
- 401196.1 Contemporary Issues in Child and Adolescent Health
- 401237.1 Maternal and Infant Health Care
- 401242.1 An Introduction to Contemporary Aboriginal Australia

- 401240.1 Risk Mitigation and Ethics for Australian Health Professionals

Professional Practice Experience

The Professional Practice Experience is the foundation for student learning in the course. It consists of two major learning contexts for students: professional practice and simulation. Professional practice in the health care sector may take place in any level of the health service appropriate to the focus for the specific Professional Practice Experience unit, for example aged care facilities, hospitals, General Practitioner practices, community health teams. This environment is essential for providing students complexity of the nursing experience, the ability to apply learning in situations involving ill persons, and socialises students into the work domain.

Simulation is a teaching and learning strategy where aspects of the professional practice environment, such as a hospital ward or patient, are artificially created on campus to enable students to learn in a safe, non-threatening environment. Clinical Practice Units, simulated professional practice environments, will be used to allow students to undertake learning activities related to all core nursing skills such as administering medications and monitoring a patient's condition. The School has a wide range of simulation equipment and dedicated high fidelity simulation rooms on each campus.

The percentage of time spent by students in each context will vary depending on the stage of the student in the course, the theoretical knowledge already acquired and the stage of competency development. For example at the beginning of the course more hours will be spent in the simulation context than in the health care sector. As the course progresses there is a scaling up of hours spent in the health care sector with fewer hours being spent in the simulation context. In the final session of third year a significant proportion of knowledge and skills consolidation will occur primarily in a clinical practice environment.

Bachelor of Nursing (Graduate Entry)**4692.3**

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in the course was 2019 or later.

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

This course prepares graduates for eligibility to apply for registration throughout Australia as a registered nurse. The focus of the course is on inquiry-based learning, critical thinking and reflective practice in relation to the theory and practice of nursing in health and health breakdown across the lifespan. Using a primary health care framework students study the application of physical and behavioural sciences to nursing; inquiry and evidence-based practice principles and utilisation within nursing; nursing care of individuals, families and groups from diverse backgrounds across the lifespan. The acquisition of nursing knowledge

and skills occurs initially in campus-based simulated clinical practice settings and consolidation occurs as students undertake clinical placements in a variety of health care settings.

The Bachelor of Nursing (Graduate Entry) is offered as a two year course beginning with an intensive, full-time unit of study that supports student transition into second year of the 4691 Bachelor Nursing program. Students will not be eligible for further recognition of prior learning (RPL) in addition to the 80 credit points awarded for 1st year of the course.

Prospective students should be aware that full disclosure of any issues of impairment or misconduct is a declaration requirement when applying for registration as a registered nurse. An English language skills registration standard is also applicable to all students applying for registration.

Study Mode

Two years full-time.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal
Hawkesbury Campus	Full Time	Internal
Liverpool Campus	Full Time	Internal
Parramatta Campus - Victoria Road	Full Time	Internal

Accreditation

The Bachelor of Nursing (Graduate Entry) has accreditation and approval from the Australian Nursing and Midwifery Accreditation Council (ANMAC) which is a partner board of the Australian Health Practitioners Registration Authority (AHPRA). Course accreditation can be checked on their website <http://www.nursingmidwiferyboard.gov.au/Accreditation.aspx> Please note: as from 1 July 2010 practitioners applying for registration as a nurse for the first time in Australia are required to demonstrate English language proficiency as specified by the Nursing and Midwifery Board of Australia (NMBA). These requirements include either a) the IELTS examination (academic module) with a minimum score of 7 in each of the four components (listening, reading, writing and speaking); or b) completion and an overall pass in the Occupational English Test (OET) with grades A or B only in each of the four components. For further details, refer to the website <http://www.nursingmidwiferyboard.gov.au/Registration-Standards.aspx>

Inherent requirements

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

Admission

Applicants must have successfully completed an (AEI-NOOSR equivalent) undergraduate degree, Graduate Diploma, Masters degree, or higher, in biological sciences, health or behavioural science (completed within the last 10 years),

Or

Completed a three year post-secondary qualification as a registered nurse (completed within the last 10 years).

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

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

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

International applicants must apply directly to the University via the International Office

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

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

Special Requirements

On Campus Students

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

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

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

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

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

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

5. NSW Undertaking/Declaration form

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

7. Relevant Local Health District specific documentation as requested.

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

Course Structure

Qualification for this award requires the successful completion of 170 credit points including the units listed in the recommended sequence below.

Full-time

Year 1

Summer B session

401029.3 Foundations for Nursing Practice

Autumn session

401008.2 Professional Practice Experience 3
401206.1 Aboriginal and Torres Strait Islander Health
401207.1 Health Variations 1 - Perioperative
401208.1 Research for Nursing and Midwifery

Quarter 2 session

401218.1 Graduate Entry Practice Experience

Spring session

401012.2 Professional Practice Experience 4
401013.2 Promoting Mental Health and Wellbeing 1
401209.1 Health Variations 2 - Chronic Illness and Disability
401210.1 Health Variations 3 - Acute Exacerbations of Chronic Conditions

Year 2

Autumn session

401016.2 Professional Practice Experience 5
401017.2 Promoting Mental Health and Wellbeing 2
401211.1 Health Variations 4 - Acute Life Threatening Conditions
401212.1 Health Variations 5 - Palliative and End of Life Care

Spring session

401020.3 Professional Practice Experience 6
401021.3 Being a Professional Nurse or Midwife
401213.1 Clinical Leadership and Professional Relationships

Professional Practice Experience

The Professional Practice Experience is the foundation for student learning in the course. It consists of two major learning contexts for students: clinical placement and simulation. Professional practice in the health care sector may take place in any level of the health service appropriate to the focus for the specific Professional Practice Experience unit, for example aged care facilities, hospitals, General Practitioner practices, community health teams. This environment is essential to provide students with the complexity of the nursing experience, the ability to apply learning in situations involving ill persons, and socialises students into the work domain.

Simulation is where aspects of the professional practice environment, such as a hospital ward or patient, are artificially created to enable students to learn in a safe, non-threatening environment. Clinical practice units, simulated professional practice environments, will be used that allow students to undertake learning activities, such as administering medications and oxygen therapy. The School has a wide range of simulation equipment and dedicated high fidelity simulation rooms on each campus.

The percentage of time spent by students in each context will vary, depending on the stage of the student in the course, the theoretical knowledge acquisition, and ANMC competency development. For example at the beginning of the course more hours will be spent in the simulation context than in the health care sector. As the course progresses there is a scaling up of hours spent in the health care sector with fewer hours being spent in the simulation context. In the final session of third year a significant proportion of knowledge and skills consolidation will occur primarily in a clinical practice environment.

Bachelor of Nursing (Honours)

4529.3

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2019 or later.

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

This program is designed for graduates of the Bachelor of Nursing degree and other similar degrees. Successful completion of the program provides students with a sound basis for subsequent research within their own work environments and enables them to progress to higher degree research-related programs.

This program provides an opportunity for students, under guidance of their supervisors, to plan and implement a research project in the area of nursing practice. Knowledge, skills and experience gained by students completing this program will contribute to the knowledge base for nursing practice.

The program of study combines a research project with course work. The course work, undertaken during the first semester of enrolment, comprises two units of study which focus on critical review of research literature, understanding ethical principles applied to practice-based research and the development of a formal research proposal. The remainder of the program focuses on completion of a research project and the preparation and submission of a Bachelor of Nursing (Honours) thesis.

This program can be undertaken concurrently with any new graduate transitional program offered by various hospitals.

Study Mode

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

Location

Campus	Attendance	Mode	2H session
Parramatta Campus - Victoria Road	Full Time	Multi Modal	400204.2 Nursing Honours Thesis (Part-time)
Parramatta Campus - Victoria Road	Part Time	Multi Modal	Year 2
			1H session
			400204.2 Nursing Honours Thesis (Part-time)

Admission

Admission to the Bachelor of Nursing (Honours) course is determined on the basis of all of the following criteria being met

- Current registration as a registered nurse/midwife with the Australian Health Practitioner Agency- Nursing and Midwifery, or eligibility for same.
- Completion of Bachelor of Nursing/Bachelor of Midwifery undergraduate degree (Australian Qualification Framework (AQF) level 7 or equivalent) with achievement of a threshold Average Admission Mark (AAM) equal to, or above, the minimum of 65.
- Statement of Intent-outlining the proposed research topic area, aim and general method proposed to be used in the research study (500 words).
- Appointment of a principal supervisor by the Dean, or nominee, of the School of Nursing and Midwifery.
- Demonstrated satisfactory academic writing skills appropriate to the discipline which will be assessed by the School of Nursing and Midwifery.

The Bachelor of Nursing (Honours) is not open to international student visa holders.

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**

- 400803.2** Research in Nursing Practice
- 400202.2** Nursing Honours Thesis A (Full-time)
- 400201.3** Readings and Methodology

Spring session

- 400203.2** Nursing Honours Thesis B (Full-time)

Part-time**Year 1****Autumn session**

- 400803.2** Research in Nursing Practice

Spring session

- 400201.3** Readings and Methodology

SCHOOL OF COMPUTING, ENGINEERING AND MATHEMATICS

Bachelor of Applied Leadership and Critical Thinking

3725.1

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

The Bachelor of Applied Leadership and Critical Thinking (BALCT) is not a stand-alone degree, but is designed to be undertaken in combination with any Western Sydney bachelor degree. It focuses on ethical leadership, creativity, entrepreneurship and innovation, capacity to deal with complexities, relationship and critical thinking skills. The Academy's three pillars of academic rigour, professional and personal development and community engagement provide the perfect base upon which to offer this innovative degree. These characteristics and aptitudes are what the employer of tomorrow will be seeking in a graduate. Students enrolled in this degree will think from multiple perspectives, see and create opportunities, and bring creative, cooperative, empathetic and ethical leadership to his or her future role in the workplace – even if that role is, as yet, unimagined.

Study Mode

Three years full-time or the equivalent part-time. Note: This includes two years equivalent Advanced Standing for prior undergraduate degree.

Location

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Full Time	Multi Modal
Parramatta Campus - Victoria Road	Part Time	Multi Modal

Advanced Standing

Advanced Standing will be granted for a maximum of 160 credit points. At least 80 credit points must be completed while enrolled in the Bachelor of Applied Leadership and Critical Thinking.

Inherent requirements

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

Admission

Assumed knowledge: two units of HSC English.

This course is made available to high-achieving students only. To be eligible for admission to the BALCT, a student must attain a minimum ATAR of 85, or the minimum ATAR

for their primary undergraduate degree, whichever is the higher.

Students must also maintain a grade point average of 5 or above throughout the duration of their study.

Current Western Sydney University students wishing to enrol must have a minimum GPA for 5 or above.

Non-school leavers must have completed an undergraduate degree with a minimum GPA of 5.

For current Western Sydney University students wishing to enrol please complete the Course Choice Form available on the University's Students webpage.

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

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

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

Special Requirements

Students must have completed all requirements for another bachelor degree in order to graduate with the Bachelor of Applied Leadership and Critical Thinking.

Course Structure

The Bachelor of Applied Leadership and Critical Thinking (BALCT) is not a stand-alone degree, but is designed to be undertaken in combination with any Western Sydney bachelor degree.

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequence below and 160 credit points of Advanced Standing.

Recommended Sequence

Standard Pathway

Year 1

1H session

301071.2	Introduction to Critical Thinking
301069.2	Research Stories
102211.2	Creativity, Innovation and Design Thinking
200855.2	Leadership in a Complex World

2H Session

301072.3	Innovation Lab
102212.2	Internship and Community Engagement
102250.1	Ethical Leadership
301070.2	Logic, Rhetoric and Argumentation

**Four Year Accelerated Pathway for
Concurrent Enrolment in a Four Year Degree****Year 1****Summer session****200855.2** Leadership in a Complex World**Year 2****Summer session****102211.2** Creativity, Innovation and Design Thinking
301071.2 Introduction to Critical Thinking**Year 3****Summer session****102250.1** Ethical Leadership
301069.2 Research Stories**Year 4****Summer session****301070.2** Logic, Rhetoric and Argumentation
102212.2 Internship and Community Engagement
301072.3 Innovation Lab**Five Year Accelerated Pathway for
Concurrent Enrolment in a Five Year Degree****Year 1****Summer session****200855.2** Leadership in a Complex World**Year 2****Summer session****102211.2** Creativity, Innovation and Design Thinking
301071.2 Introduction to Critical Thinking**Year 3****Summer session****102250.1** Ethical Leadership
301069.2 Research Stories**Year 4****Summer session****301070.2** Logic, Rhetoric and Argumentation**Year 5****Summer session****102212.2** Internship and Community Engagement
301072.3 Innovation Lab**Bachelor of Architectural Design****3753.1**

The Bachelor of Architectural Design provides students with a combination of skills and knowledge required by contemporary architects, aligning with the Architects Accreditation Council of Australia (AACA) National Standard of Competency for Architects in the areas of design, documentation, project delivery and practice management across five knowledge domains; regulatory, social and ethical, environmentally sustainable, communication and disciplinary. The course capitalises on change and growth taking place in the Greater Western Sydney Region by directly relating the architectural design problems to urban transformation of contemporary cities, with the view to preparing architects for global employment. The course focuses on producing graduates who can synthesise and evaluate information to undertake architectural design and apply design thinking to complex projects. Knowledge and skills are drawn from associated disciplines across the University, including: Industrial Design, Urban Planning, Construction Management, Communication Arts, Health Sciences, Business and Engineering.

Students enrolled in the Bachelor of Architectural Design should anticipate expenses of approximately \$200 per semester for model-making materials and large format plotting costs. Additionally, it is strongly recommended all students have their own laptop when commencing the course (minimum 8GB RAM, multi-core processor, graphics card) but no later than the start of Semester 3. Laptop specifications and other required equipment will be provided upon admission to the course.

In 2019, all studio units in this course will be offered at our new Westmead campus which will relocate and expand the Parramatta campus offerings.

Study Mode

Three years full-time or six years part-time.

Location

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

Admission

Recommended ATAR: 85 or equivalent

Assumed knowledge: HSC English Standard (or higher), and Science and/or Mathematics (Band 4 or above).

Recommended studies: Art, design technology (drafting/ CAD), and/or professional studies.

Alternate Entry

Where academic requirements are not met, entry by portfolio demonstrating creative ability is also possible. Portfolios will be assessed by the School of Computing, Engineering and Mathematics on a qualitative basis. PDF portfolio required for all international applicants.

Portfolio (PDF only) Formatting and Content Requirements

- Maximum 10 page PDF file showing visual evidence of creative ability. Images should be labelled and dated, with brief descriptions of the work to clarify as required (max 25 words per image).^{*} Creative production need not be limited to 'architectural' works but can include: photography, sculpture, freehand drawing, mechanical drafting or CAD modelling, woodwork or technical arts, music scores, creative writing, dramatic performance or dance, and other forms of creative or professional endeavour.
- Maximum 10MB file size
- Colour or black and white
- A4 portrait or landscape
- No embedded hyperlinks. Static files only. No security or password protection on the file
- Cover sheet with your name, email address, and phone number and 300 word maximum description of the creative content, explanation of any exceptional circumstances, and articulation of why the field of architecture is of interest
- Save the PDF file using the following name format: 2020_Autumn_SURNAME_FIRSTNAME_portfolio.pdf

Please email your portfolio to Associate Professor Mary Hardie, m.hardie@westernsydney.edu.au by 30 November 2019.

Do not send portfolios to WSU admissions.

No late portfolios will be accepted.

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

Additional Information

To be eligible for admission you must have achieved a minimum ATAR or equivalent of 85.00.

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

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

Local and International applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website.

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

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

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

Note Regarding Professional Accreditation

The program is designed to meet all the requirements of the Architects Accreditation Council of Australia and in conjunction with the proposed Master of Architecture (Urban Transformation) program. The professional pathway to registration in architecture in Australia requires a minimum 5 year sequence including a three year Bachelors, a 2 year Master of Architecture and a nominal 2 year (3300 hrs) professional practice internship under the supervision of a registered practising architect of which 1650 hours can be during their study years. Successful completion of the Bachelor of Architectural Design will enable students to apply for entry into the Master of Architecture (Urban Transformation) program at Western Sydney University and may be eligible to apply to other accredited architecture program providers dependant on their entry requirements. Students who do not wish to proceed to the Masters course will still obtain a qualification that will assist with employment in the broad industry as part of building design teams and other allied disciplines in creative arts and professional services.

Special Requirements

Students are required to obtain a General Construction Induction Card ("white card") to facilitate construction site visits as part of the course. This can be obtained independently or through a coordinated effort of program staff during new student orientation. Detailed information will be provided to students. It is expected Induction Cards will be obtained during the first year of study, and will be a requirement to enrol in Year 2.

Course Structure

Qualification for this award requires the successful completion of 240 credit points as per the recommended sequence below.

Students must complete:

- Eight 10 credit points core units
- Six 20 credit points core studio units
- Four elective units

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

- 301030.2** Introduction to Industrial Design Methods
- 301074.2** Graphics 1: 2D and 3D Industrial Design Communication
- 301197.1** Architecture Studio - Fundamentals of Analogue Design

Spring session

- 301062.1** Environmental Building Design
- 300706.3** Building 1
- 301198.1** Architecture Studio - Fundamentals of Digital Design

Year 2**Autumn session**

101589.2 Cities: Introduction to Urban Studies
301199.1 Architecture Studio - Rethinking the Sub-urban

And one elective

Spring session

300707.2 Building 2
301200.1 Architecture Studio - Rethinking Urbanism

And one elective

Year 3**Autumn session**

200471.4 Construction Technology 5 (Envelope)
301201.1 Architecture Studio - Global Cities

And one elective

Spring session

101646.2 Analysis of Spatial Data
301202.1 Architecture Studio - The Infrastructural

And one elective

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Bachelor of Building Design Management**3727.1**

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

Over four years, this course develops the skills necessary for a role in the integrated design and delivery of building projects. Students develop skills in building design along with an understanding of 'buildability' issues, accurate cost forecasting, risk management and sustainable project delivery. The ability to work as a part of a multi-disciplinary project team and to negotiate favourable outcomes in complex project environments is fostered through simulations of real-life building projects. Students will acquire a comprehensive overview of construction project delivery. All aspects of building design are included: commencing with an initial design concept; extending to design brief formation; project documentation; quality control management during the building process; and finally leading to project handover. Students will be required to undertake approved practical experience during the course.

This experience will support and complement their formal study.

Study Mode

Four years full-time or eight years part-time.

Location

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

Advanced Standing

Successful applicants for Advanced Standing may be required to travel to different Western Sydney University campuses to complete the elements of their course.

Admission

Assumed knowledge: HSC English and Mathematics/ Science.

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

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

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

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

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

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

Course Structure**Recommended Sequence**

Qualification for this award requires the successful completion of 320 credit points which include the units listed in the recommended sequence below.

Start year Intake (Parramatta-Victoria Road and Penrith campuses)**Full-time****Year 1****Autumn session**

300706.3	Building 1
300729.3	Graphic Communication and Design
300975.1	Professional Competencies

From Autumn 2019, students are advised to select the following equivalent unit, 301213 Construction Communication, which will replace 300975 Professional Competencies.

301213.1	Construction Communication
301061.1	Construction Work Safety

Spring session

300707.2	Building 2
200909.2	Enterprise Law
200101.6	Accounting Information for Managers
301062.1	Environmental Building Design

Year 2**Autumn session**

300720.2	Construction Technology 1 (Civil)
200486.3	Quantity Surveying 1

From Autumn 2019, students are advised to select the following equivalent unit, 301208 Building Measurement, which will replace 200486 Quantity Surveying 1.

301208.1	Building Measurement
300723.2	Development Control

And one elective

Spring session

300721.4	Construction Technology 2 (Substructure)
200468.2	Estimating 1

From Spring 2019, students are advised to select the following equivalent unit, 301207 Building Estimates and Tendering, which will replace 200468 Estimating 1.

301207.1	Building Estimates and Tendering
301085.1	Built Heritage

And one elective

Year 3**Autumn session**

200502.4	Construction Technology 3 (Concrete Construction)
300727.2	Project Management
301086.2	Design Brief Formulation

And one elective

Spring session

200470.4	Construction Technology 4 (Steel Construction)
300886.1	Construction in Practice 1
301087.1	Building Design Process

And one elective

Non-honours Stream**Year 4****Autumn session**

200471.4	Construction Technology 5 (Envelope)
200504.3	Construction Economics
301099.1	Building Design Project 1

Spring session

300725.3	Construction Technology 6 (Services)
200484.5	Construction in Practice 3
301100.1	Building Design Project 2

Honours Stream

An Honours stream is offered - see the Honours in Bachelors Awards Policy and associated Guidelines for the admission criteria.

Year 4 (Honours stream)**Autumn session**

200471.4	Construction Technology 5 (Envelope)
200504.3	Construction Economics
301101.1	Building Design Project 1 (Honours)

Spring session

300725.3	Construction Technology 6 (Services)
200484.5	Construction in Practice 3
301102.1	Building Design Project 2 (Honours)

Industry Experience

All students enrolled in Bachelor of Building Design Management must obtain, through their own initiative, 1200 hours of industry related employment prior to graduation.

To facilitate the recording of such experience it will be necessary to enrol in 300724 Industry Based Learning and have an Industry Experience Diary signed off by the Academic Course Advisor.

300724.2	Industry Based Learning
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Optional Electives

301158.1	Modern Construction Enterprises
301159.1	Modern Construction Projects

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

301089.1	Special Technical Project
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Mid-year Intake (Parramatta-Victoria Road campus only)**Full-time****Year 1****Spring session**

301213.1	Construction Communication Building 1
300706.3	Building 1
300707.2	Building 2
200101.6	Accounting Information for Managers

Autumn session

300729.3	Graphic Communication and Design
301061.1	Construction Work Safety
200909.2	Enterprise Law
300720.2	Construction Technology 1 (Civil)

Year 2**Spring session**

301062.1	Environmental Building Design
300721.4	Construction Technology 2 (Substructure)
301085.1	Built Heritage

And one elective

Autumn session

301208.1	Building Measurement
200502.4	Construction Technology 3 (Concrete Construction)
301086.2	Design Brief Formulation

And one elective

Year 3**Spring session**

200470.4	Construction Technology 4 (Steel Construction)
300886.1	Construction in Practice 1
301207.1	Building Estimates and Tendering
301087.1	Building Design Process

Autumn session

300727.2	Project Management
300723.2	Development Control
200471.4	Construction Technology 5 (Envelope)

And one elective

Non-honours Stream**Year 4****Spring session**

300725.3	Construction Technology 6 (Services)
200484.5	Construction in Practice 3
301099.1	Building Design Project 1

Autumn session

200504.3	Construction Economics
301100.1	Building Design Project 2

And one elective

Honours Stream

An Honours stream is offered - see the Honours in Bachelors Awards Policy and associated Guidelines for the admission criteria.

Year 4 (Honours stream)**Spring session**

300725.3	Construction Technology 6 (Services)
200484.5	Construction in Practice 3
301101.1	Building Design Project 1 (Honours)

Autumn session

200504.3	Construction Economics
301102.1	Building Design Project 2 (Honours)

And one elective

Industry Experience

All students enrolled in Bachelor of Building Design Management must obtain, through their own initiative, 1200 hours of industry related employment prior to graduation.

To facilitate the recording of such experience it will be necessary to enrol in 300724 Industry Based Learning and have an Industry Experience Diary signed off by the Academic Course Advisor.

300724.2	Industry Based Learning
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Optional Electives

301159.1	Modern Construction Projects
301158.1	Modern Construction Enterprises
301089.1	Special Technical Project

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

301089.1	Special Technical Project
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Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Bachelor of Computer Science**3506.9**

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

applies to students whose commencement year in this course was 2019 or later.

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

The Bachelor of Computer Science course provides students with a thorough and in-depth technical understanding of modern networked computer systems. This understanding includes how these computer systems are put together, how they work and what are the principles that govern them. Based on this solid foundation, students then have the opportunity to further learn the practical skills needed to design, develop and integrate the networked computer systems required by today's large organisations. This course is a three year course with four distinct majors which allow students to specialise in different applications of computer science and computer systems. The four Majors are: Cyber Security, Networked Systems, Systems Programming and Artificial Intelligence

Study Mode

Three years full-time.

Location

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

Accreditation

The Bachelor of Computer Science currently is accredited with the Australian Computer Society at the professional level.

Admission

Assumed Knowledge: HSC Mathematics and any two units of HSC English.

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

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

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

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

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

Course Structure

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequence below.

Full-time - Start Year Intake

Recommended Sequence

Year 1

Autumn session

300700.6	Statistical Decision Making
300580.3	Programming Fundamentals
100483.2	Principles of Professional Communication 1
200025.2	Discrete Mathematics

Spring session

300096.6	Computer Organisation
300147.4	Object Oriented Programming
300104.4	Database Design and Development
300565.2	Computer Networking

Year 2

Autumn session

300167.4	Systems Programming 1
300103.4	Data Structures and Algorithms
300582.5	Technologies for Web Applications

And one elective

Spring session

300960.4	Mobile Applications Development
300128.5	Information Security
300115.3	Distributed Systems and Programming

And one elective

Year 3

Autumn session

300578.3	Professional Development
300952.2	Wireless and Mobile Networks

And two electives

Spring session

300579.6	Professional Experience
300404.2	Formal Software Engineering

And two electives

Full-time - Mid-Year Intake

Year 1

Spring session

300580.3	Programming Fundamentals
300104.4	Database Design and Development
300565.2	Computer Networking

And one elective

Autumn session

300700.6	Statistical Decision Making
100483.2	Principles of Professional Communication 1
200025.2	Discrete Mathematics
300582.5	Technologies for Web Applications

Year 2**Spring session**

300096.6	Computer Organisation
300147.4	Object Oriented Programming
300960.4	Mobile Applications Development

And one elective

Autumn session

300167.4	Systems Programming 1
300103.4	Data Structures and Algorithms
300578.3	Professional Development

And one elective

Year 3**Spring session**

300128.5	Information Security
300404.2	Formal Software Engineering
300115.3	Distributed Systems and Programming

And one elective

Autumn session

300579.6	Professional Experience
300952.2	Wireless and Mobile Networks

And two electives

Accelerated Pathway - Summer Sessions**Year 1****Autumn session**

300700.6	Statistical Decision Making
300580.3	Programming Fundamentals
100483.2	Principles of Professional Communication 1
200025.2	Discrete Mathematics

Spring session

300096.6	Computer Organisation
300147.4	Object Oriented Programming
300104.4	Database Design and Development
300565.2	Computer Networking

Summer A session

300582.5	Technologies for Web Applications
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Summer B session

300952.2	Wireless and Mobile Networks
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Year 2**Autumn session**

300103.4	Data Structures and Algorithms
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And three electives

Spring session

300404.2	Formal Software Engineering
300128.5	Information Security
300115.3	Distributed Systems and Programming

And one elective

Summer A session

300578.3	Professional Development
300960.4	Mobile Applications Development

Year 3**Autumn session**

300579.6	Professional Experience
300167.4	Systems Programming 1

And two electives

Suggested Elective Units:

301174.1	Artificial Intelligence
300093.7	Computer Graphics
300095.5	Computer Networks and Internets
301124.2	Ethical Hacking Principles and Practice
300130.4	Internet Programming
301033.1	Introduction to Data Science
300143.4	Network Security
300575.2	Networked Systems Design
300698.4	Operating Systems Programming
301034.1	Predictive Modelling
301205.1	Robotic Programming
300900.2	Professional Experience (Advanced)
300958.2	Social Web Analytics
300166.3	Systems and Network Management
300165.4	Systems Administration Programming
301109.2	Visual Analytics
300583.3	Web Systems Development

Majors

The majors listed below have been designed specifically for this course and are recommended for Bachelor of Computer Science students.

M3110.1	Artificial Intelligence
M3114.1	Systems Programming
M3115.1	Networked Systems
M3116.1	Cyber Security

Sub-major

SM3101.1	Cloud Computing
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Note: students may use some of their elective space to complete a Major or the Sub-major

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Bachelor of Computer Science (Advanced)

3634.5

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

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

This course is an advanced version of Bachelor of Computer Science. It provides students with a thorough and in-depth technical understanding of modern networked computer systems. This understanding includes how these computer systems are put together, how they work and what are the principles that govern them. Based on this solid foundation students then have the opportunity to further learn the practical skills needed to design, develop and integrate the networked computer systems required by today's large organisations. This course is a three year course with four distinct majors which allow students to specialise in different applications of computer science and computer systems. The four majors are: Cyber Security, Networked Systems, Systems Programming and Artificial Intelligence.

Students in the Bachelor of Computer Science (Advanced) will follow the same study program that is set out for the Bachelor of Computer Science. However, each student in this course will have an academic mentor and the student will also participate in additional compulsory activities including research projects. To maintain their enrolment in the Bachelor of Computer Science (Advanced) students must maintain an overall above 5 Grade Point Average, otherwise they will be transferred to the standard 3506 – Bachelor of Computer Science course. At enrolment students will be required to sign a declaration acknowledging the need to maintain a grade-point average (GPA) of 5.0 or more.

Study Mode

Three years full-time.

Location

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

Accreditation

The Bachelor of Computer Science currently is accredited by Australian Computer Society at the professional level.

Admission

Assumed Knowledge: HSC Mathematics and any two units of HSC English.

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

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

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

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

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

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

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

Course Structure

In addition to the units outlined in the course structure for 3506 Bachelor of Computer Science, students in the advanced program must also complete the following three units.

Students must enrol in both 1H and 2H sessions.

Year 1

1H session

300586.2 Advanced Computer Science Activities 1

2H session

300586.2 Advanced Computer Science Activities 1

Year 2

1H session

300587.2 Advanced Computer Science Activities 2

2H session

300587.2 Advanced Computer Science Activities 2

Year 3**1H session****300588.2** Advanced Computer Science Activities 3**2H session****300588.2** Advanced Computer Science Activities 3**Sub-major Elective Spaces**

Students in Advanced courses may use elective units toward obtaining an additional approved sub-major in Applied Leadership or Critical Thinking.

Bachelor of Construction Management**2607.10**

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

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

This course is aimed at providing the skills and abilities necessary to perform competently at a professional level in the building industry, in one or more of the following roles: Construction Managers, Project Managers, Building Supervisors, Estimators, Quantity Surveyors and Building Researchers.

Students will develop specialised skills in construction management. The Construction Management program is widely recognised for delivering the full suite of theoretical, practical, and hands-on experience in the area of construction management. Students will study four concentrated areas related to the delivery of construction projects. These are construction technology; construction economics; construction law; and construction resource management. Additionally, students will be required to undertake a total of 1,200 hours approved practical experience during the course.

There are a number of opportunities during the course for obtaining a cadetship in the building industry in areas including building surveying, construction economics, and construction management.

Study Mode

Four years full-time.

Location

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

Advanced Standing

Successful applicants for Advanced Standing may be required to travel to different Western Sydney University campuses to complete the elements of their course.

Accreditation

The Bachelor of Construction Management is accredited with the Australian Institute of Building. Graduates are eligible for Probationer membership with advancement to member grades of the Australian Institute of Quantity Surveyors (AIQS) after Assessment of Professional Competence.

Admission

Assumed knowledge required: HSC Mathematics, Physics and English.

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

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

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

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

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

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

Course Structure

Qualification for this award requires the successful completion of 320 credit points which include units in the recommended sequence below. Electives within the sequence may be used towards obtaining an approved sub-major for this award.

Recommended Sequence**Full-time****Year 1****Autumn session**

300706.3	Building 1
300729.3	Graphic Communication and Design
300975.1	Professional Competencies

From Autumn 2019, students are advised to select the following equivalent unit, 301213 Construction

Communication, which will replace 300975 Professional Competencies.

301213.1	Construction Communication
301061.1	Construction Work Safety

Spring session

300707.2	Building 2
200909.2	Enterprise Law
200101.6	Accounting Information for Managers
200912.1	Enterprise Leadership

Year 2

Autumn session

300720.2	Construction Technology 1 (Civil)
200486.3	Quantity Surveying 1

From Autumn 2019, students are advised to select the following equivalent unit, 301208 Building Measurement, which will replace 200486 Quantity Surveying 1.

301208.1	Building Measurement
200472.4	Material Science in Construction
300723.2	Development Control

Spring session

300721.4	Construction Technology 2 (Substructure)
200468.2	Estimating 1

From Spring 2019, students are advised to select the following equivalent unit, 301207 Building Estimates and Tendering, which will replace 200468 Estimating 1.

301207.1	Building Estimates and Tendering
300885.1	Building Regulations Studies

And one elective

Year 3

Autumn session

200502.4	Construction Technology 3 (Concrete Construction)
301105.1	Negotiation in the Built Environment
300727.2	Project Management
300728.3	Construction Planning

Spring session

200470.4	Construction Technology 4 (Steel Construction)
300886.1	Construction in Practice 1
300053.4	Professional Practice
200292.2	Building Law

Non-Honours Stream

Year 4

Autumn session

200471.4	Construction Technology 5 (Envelope)
200504.3	Construction Economics
300536.4	Major Project in Construction

And one elective

Spring session

300725.3	Construction Technology 6 (Services)
200484.5	Construction in Practice 3

And two electives

Honours Stream

Year 4

1H session

301160.1	Construction Management Honours Thesis
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Autumn session

200471.4	Construction Technology 5 (Envelope)
200504.3	Construction Economics

And one elective

2H session

301160.1	Construction Management Honours Thesis
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Spring session

300725.3	Construction Technology 6 (Services)
200484.5	Construction in Practice 3

And one elective

Sub-major in Construction Economics

SM3094.1	Construction Economics
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To graduate with a sub-major in Construction Economics students must successfully complete four of the following six specialist units.

Choose four of

200503.2	Construction Information Systems
300726.2	Estimating 2
301158.1	Modern Construction Enterprises
301159.1	Modern Construction Projects
200487.3	Quantity Surveying 2
300748.2	Quality and Value Management

Industrial Experience

All students enrolled in Bachelor of Construction Management must obtain, through their own initiative, 1200 hours of construction management related employment prior to undertaking their final year of study.

To facilitate the recording of such experience it will be necessary to enrol in 300724 Industry Based Learning and have an Industry Experience Diary signed off by the Course Coordinator.

300724.2	Industry Based Learning
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Optional Electives

301158.1	Modern Construction Enterprises
301159.1	Modern Construction Projects

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

301089.1 Special Technical Project

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Examples of sub majors that students could complete

SM2050.1 Property Investment
SM1093.1 Geography and Urban Studies

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective sub-major via MySR.

Bachelor of Construction Management Studies (exit only)

3697.3

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

This is an early exit course only. Applicants apply to 2769.3 Bachelor of Construction Management Studies/Bachelor of Laws and exit with the Bachelor of Construction Management Studies award.

Study Mode

Three years full-time or six years part-time.

Location

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

Admission

This course is an exit point only from 2769.3 Bachelor of Construction Management Studies/Bachelor of Laws

Course Structure

To gain early exit from the combined degree, with a Bachelor Construction Management Studies, students are required to complete the 17 construction management studies units and the first eight law units listed in the recommended sequence below.

Recommended Sequence

Full-time

Year 1

Autumn session

200977.1 Fundamentals of Australian Law
200010.2 Criminal Law

300706.3 Building 1
300729.3 Graphic Communication and Design

Spring session

200978.2 Legal Analysis and Critique
200008.5 Torts Law
300707.2 Building 2
200101.6 Accounting Information for Managers

Year 2

Autumn session

200011.2 Contracts
300720.2 Construction Technology 1 (Civil)
200486.3 Quantity Surveying 1

From Autumn 2019, students are advised to enrol in the following equivalent unit, 301208 Building Measurement, will replace 200486 Quantity Surveying

301208.1 Building Measurement
300723.2 Development Control

Spring session

200811.4 Alternative Dispute Resolution
300721.4 Construction Technology 2 (Substructure)
200468.2 Estimating 1

From Spring 2019, students are advised to select the following equivalent unit, 301207 Building Estimates and Tendering, which will replace 200468 Estimating 1.

301207.1 Building Estimates and Tendering
300885.1 Building Regulations Studies

Year 3

Autumn session

200020.5 Professional Responsibility and Legal Ethics
200502.4 Construction Technology 3 (Concrete Construction)
300727.2 Project Management
300728.3 Construction Planning

Spring session

200984.1 Government and Public Law
200470.4 Construction Technology 4 (Steel Construction)
300536.4 Major Project in Construction
200484.5 Construction in Practice 3

And

300724.2 Industry Based Learning

(1200 hours) (0 credit points)

Bachelor of Construction Technology

3692.3

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

applies to students whose commencement year in this course is 2017 or later.

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

This course provides the skills and abilities necessary to perform competently at a professional level in the residential construction industry, in one or more of the following roles: Site Manager, Building Supervisor, Estimator and Building Surveyor. Students will develop specialised skills in construction management. The Construction Technology program is widely recognised for delivering the full suite of theoretical, practical, and hands-on experience in the area of residential construction. Students will study four concentrated areas related to the delivery of residential construction projects. These are construction technology; construction economics; construction law; and construction resource management. There may be a number of opportunities during the course to obtain a cadetship in the building industry in areas including project home building, building surveying and residential development. The three year Bachelor of Construction Technology program may be used as a pathway to the four year Bachelor of Construction Management program which meets the Australian Institute of Building (AIB) professional accreditation requirements.

Study Mode

Three years full-time.

Location

Campus	Attendance Mode
Penrith Campus	Full Time Internal

Advanced Standing

Successful applicants for Advanced Standing may be required to travel to different Western Sydney University campuses to complete the elements of their course.

Admission

Assumed knowledge required: Normal Western Sydney University ATAR score with HSC 2 unit Mathematics, Physics and English for entry into first year.

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

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

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

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

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian

qualifications in order to be considered by UAC and Western Sydney University.

Course Structure

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequence below. Students should have no more than 100 credit points of Level 1 units and no fewer than 60 credit points of Level 3 units.

Recommended Sequence

Year 1

Autumn session

300706.3	Building 1
300729.3	Graphic Communication and Design
300975.1	Professional Competencies

From Autumn 2019, students are advised to select the following equivalent unit, 301213 Construction Communication, which will replace 300975 Professional Competencies.

301213.1	Construction Communication
301061.1	Construction Work Safety

Spring session

200909.2	Enterprise Law
200101.6	Accounting Information for Managers
300707.2	Building 2
200912.1	Enterprise Leadership

Year 2

Autumn session

300720.2	Construction Technology 1 (Civil)
200486.3	Quantity Surveying 1

From Autumn 2019, students are advised to select the following equivalent unit, 301208 Building Measurement, which will replace 200486 Quantity Surveying 1.

301208.1	Building Measurement
200472.4	Material Science in Construction
300723.2	Development Control

Spring session

300721.4	Construction Technology 2 (Substructure)
200468.2	Estimating 1

From Spring 2019, students are advised to select the following equivalent unit, 301207 Building Estimates and Tendering, which will replace 200468 Estimating 1.

301207.1	Building Estimates and Tendering
300885.1	Building Regulations Studies

And Elective 1

Year 3

Autumn session

301105.1	Negotiation in the Built Environment
300727.2	Project Management

300728.3 Construction Planning

And Elective 2

Spring session

- 300886.1** Construction in Practice 1
300053.4 Professional Practice
200292.2 Building Law

And Elective 3

Please note

Students may choose electives from any of The University's courses, including the following units

Elective 1 Options

Choose one of

- 200503.2** Construction Information Systems
301062.1 Environmental Building Design

Elective 2 Options

- 200502.4** Construction Technology 3 (Concrete Construction)
300748.2 Quality and Value Management

Elective 3 Options

Choose one of

- 200470.4** Construction Technology 4 (Steel Construction)
200487.3 Quantity Surveying 2

Bachelor of Construction Technology students wishing to continue on to gain Bachelor of Construction Management are required to undertake the following electives

- 200502.4** Construction Technology 3 (Concrete Construction)
200470.4 Construction Technology 4 (Steel Construction)

Optional Elective

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

- 301089.1** Special Technical Project

Bachelor of Data Science**3734.1**

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

The Bachelor of Data Science is not a stand-alone degree, but is designed to be undertaken in combination with any bachelor degree. Students must have completed all requirements for another bachelors degree in order to graduate with the Bachelor of Data Science.

Digital data plays an increasingly important role in many areas of endeavour. Extracting information from data has become a science in itself – Data Science. Graduates from many disciplines, will benefit from skills in Data Science. This course teaches a blend of skills from mathematics, statistics and computing. Graduates will know how to embark on data driven investigations, and conduct visual and computational analytics for application in their own primary discipline.

Study Mode

Three years full-time or the equivalent part-time. Note: This includes two years equivalent Advanced Standing for prior undergraduate degree.

Location

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

Advanced Standing

Advanced Standing will be granted for a maximum of 160 credit points. At least 80 credit points must be completed while enrolled in the Bachelor of Data Science.

Admission

ATAR > 75

Recommended studies: Mathematics, Computing/IT

Assumed knowledge required: Mathematics equivalent to 2 Unit HSC

For current Western Sydney University students wishing to enrol please complete the Course Choice Form available on the University's Students webpage.

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

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

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

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

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

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

Course Structure

The Bachelor of Data Science is not a stand-alone degree, but is designed to be undertaken in combination with any Western Sydney bachelor degree. The standard study duration for both degrees would be:

- Four years for students completing a three year Western Sydney Bachelor degree and the Bachelor of Data Science.
- Five years for students completing a four year Western Sydney Bachelor degree and the Bachelor of Data Science.

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequence below and 160 credit points of Advanced Standing. At least 80 credit points must be completed while enrolled in the Bachelor of Data Science.

Recommended Sequence

Autumn session

301108.1	Thinking About Data
301107.1	Analytics Programming
301033.1	Introduction to Data Science
301034.1	Predictive Modelling

Spring Session

301109.2	Visual Analytics
300958.2	Social Web Analytics
301110.1	Applications of Big Data
301111.1	Discovery Project

Plus 160 credit points of advanced standing which must include a minimum of

20 credit points at Level 3 units for a three year degree (240 credit points)

100 credit points at Level 3 or above for a four year degree (320 credit points)

Bachelor of Design and Technology

3729.2

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

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

This course prepares students for a career in industrial design and/or industrial graphics. This is achieved by providing a sound knowledge of units in a broad range of design disciplines, including design methodology, design innovation, product design, ergonomics, manufacturing technology and design, management, 2D and 3D CAD. Students interested in a teaching career in Design and Technology may take the Master of Teaching degree after completing their Design and Technology degree.

The program provides an array of three majors (Graphics and Visualisation, Design Management and Entrepreneurship, and Design-Led Innovation and

Management) and five sub-majors (Visualisation, Human Interaction, Industrial Manufacturing, Design Management, Responsible Design and Sustainability). The course pathway is transformative by practice on progressive priorities of product, process, people and place. In first year, it introduces students to the basic skills of making products, design thinking and literacy, physical and digital methods, professional standards, and essential foundation knowledge of science and mathematics for industrial design. In second year, the program takes students deeper into the profession by working on design process through design management, visualisation, human-computer interaction and sustainable design. In third year, the program brings students to consolidate competencies and expertise by focusing on people, place and socio-cultural context as critical components of the design problem. Students are expected to complete an incremental process of industrial experience by this year. They are also required to undertake a sub-major from different streams within the program to complete the course.

Study Mode

Three years full-time or six years part-time.

Location

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

Advanced Standing

Successful applicants for Advanced Standing may be required to travel to different Western Sydney University campuses to complete the elements of their course.

Accreditation

Graduates are eligible for membership of the Design Institute of Australia (DIA).

Admission

Assumed knowledge: any two units of English plus at least two units of Design, Design and Technology, Visual Arts, Digital Multimedia, Engineering, or Business Studies.

Alternate Entry

Entry by interview in which personal aptitude, professional experience, and educational qualifications are taken into consideration supported by a portfolio of works. After applicants have applied they are required to book an interview and download a questionnaire at this University's online booking system.

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

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

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

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

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

Course Structure

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequence below.

To be eligible to graduate from this course, students are required to complete a sub-major from the list below.

Start year Intake

Year 1

Autumn session

301030.2	Introduction to Industrial Design Methods
300016.3	Design Science
301073.1	Design Studio 1: Patterns and Products
301074.2	Graphics 1: 2D and 3D Industrial Design Communication

Spring session

301075.1	Design Studio 2: Form and Production
301076.1	Graphics 2: Visual Simulation
301095.1	Sustainable Design 1: Materials and Technology
301077.1	Mathematics for Industrial Design

Year 2

Autumn session

301078.1	Design Studio 3: Design, Process and Function
301079.1	Graphics 3: 3D Engineering Specifications and Visualisation
300570.3	Human-Computer Interaction

And one majorsub-major alternate unit or elective

Spring session

301080.1	Design Studio 4: Innovation through Systems Thinking
301081.2	Sustainable Design 2: Product Service Systems
301082.1	Design Management 2: Operation and Supply Chain

And one major/sub-major alternate unit or elective

Year 3

Autumn session

301083.2	Design Studio 5: Symbol and Meaning Making
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300014.3	Design Management 3: Organisational Skills for Designers
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And two major/sub-major alternate units or electives

Spring session

301084.1	Design Studio 6: Ambience, Place and Behaviour
301090.1	Contextual Inquiry

And two major/sub-major alternate units or electives

Industrial Experience

300775.2	Industrial Experience
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Mid-year Intake

Year 1

Spring session

301075.1	Design Studio 2: Form and Production
301076.1	Graphics 2: Visual Simulation
301095.1	Sustainable Design 1: Materials and Technology
301077.1	Mathematics for Industrial Design

Autumn session

301030.2	Introduction to Industrial Design Methods
301079.1	Graphics 3: 3D Engineering Specifications and Visualisation
301073.1	Design Studio 1: Patterns and Products
301074.2	Graphics 1: 2D and 3D Industrial Design Communication

Year 2

Spring session

301080.1	Design Studio 4: Innovation through Systems Thinking
301081.2	Sustainable Design 2: Product Service Systems
301082.1	Design Management 2: Operation and Supply Chain

And one major/sub-major alternate unit or elective

Autumn session

301078.1	Design Studio 3: Design, Process and Function
300016.3	Design Science
300570.3	Human-Computer Interaction

And one major/sub-major alternate unit or elective

Industrial Experience

300775.2	Industrial Experience
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Year 3

Spring session

301084.1	Design Studio 6: Ambience, Place and Behaviour
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301090.1 Contextual Inquiry

And two major/sub-major alternate units or electives

Autumn session

301083.2 Design Studio 5: Symbol and Meaning Making

300014.3 Design Management 3: Organisational Skills for Designers

And two major/sub-major alternate units or electives

Majors and Sub-majors

The Bachelor of Design and Technology is offered on Parramatta (Victoria Road) Campus only. Students may be required to travel between campuses in order to complete some units within specific Majors and Sub-majors.

Majors

M3091.1	Visualisation and Graphics
M3092.1	Design Management and Entrepreneurship
M3093.1	Design-led Innovation and Management

Sub-majors

SM3084.1	Visualisation
SM3085.1	Human-Computer Interaction
SM3086.1	Industrial Manufacturing
SM3087.1	Design Management
SM3088.1	Responsible Design and Sustainability

Optional Elective

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

301089.1 Special Technical Project

Bachelor of Engineering (Honours)**3740.2**

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

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

The Bachelor of Engineering (Honours) is a four year degree program with common first year structure. The program has been designed to meet Engineers Australia professional accreditation requirements – Competency Stage 1 Professional Engineers and Australian Quality Frameworks (AQF) Level 8. It allows students the opportunity to choose a discipline area by selecting a key program in Civil, Construction, Electrical, Mechanical, and Robotic and Mechatronic engineering. In addition, students

can specialise by selecting a sub-major from a wide range of recommended alternate unit sets that will complement their chosen discipline.

Study Mode

Four years full-time or eight years part-time.

Location

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal
Penrith Campus	Full Time	Internal
Penrith Campus	Part Time	Internal
Sydney City Campus	Full Time	Internal

Advanced Standing

Successful applicants for Advanced Standing may be required to travel to different Western Sydney University campuses to complete the elements of their course.

Accreditation

This course has Full Accreditation at the level of Professional Engineer at Penrith campus and Provisional Accreditation at the level of Professional Engineer at Parramatta South and Sydney City Campuses. Graduates of this program are eligible to apply for full membership of Engineers Australia. They are eligible to apply for Chartered Professional Engineering registration upon successful completion of required engineering practice period specified by Engineers Australia.

Inherent requirements

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

Admission

Recommended studies: Physics and HSC Mathematics Extension 1 or HSC Mathematics Extension 2.

Assumed knowledge required: Two units of Science, two units of English and Mathematics (not General Mathematics) at Band 5 or higher.

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

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

International applicants must apply directly to Western Sydney University via the International Office. International students applying to The University through the International Office can find details of minimum English

proficiency requirements and acceptable proof on their website.

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

Course Structure

Academic Course Advisor

Assoc Prof Sarah Zhang is the Academic Course Advisor for Key Programs in Civil and Construction at Penrith Campus.

Assoc Prof Haiping Zhu is the Academic Course Advisor for Key Programs in Civil and Construction at Parramatta South Campus.

Dr Jamal Rizk is the Academic Course Advisor for Key Program in Electrical.

Dr Ming Zhao is the Academic Course Advisor for Key Programs in Mechanical and Robotics & Mechatronics.

Recommended Sequence

Qualification for this award requires the successful completion of 320 credit points which include the units listed in the recommended sequences below.

Sydney City Campus

Full-time Autumn Intake - Parramatta and Penrith Campuses

Year 1

Autumn session

All students undertaking the Bachelor of Engineering (Honours) are required to enrol in 300743 Mathematics for Engineers Preliminary and undertake a readiness test at the beginning of their study. The readiness test will be conducted at the beginning of the first semester of enrolment and the result will be used to determine whether a student will remain in 300743 Mathematics for Engineers Preliminary or be transferred by the School to 200237 Mathematics for Engineers 1. Students remaining in 300743 Mathematics for Engineers Preliminary will be required to complete 200237 Mathematics for Engineers 1 during second semester and will be encouraged to complete 200238 Mathematics for Engineers 2 during the Summer session.

300743.3 Mathematics for Engineers Preliminary

Or

200237.4 Mathematics for Engineers 1

300027.2 Engineering Computing

300963.1 Engineering Physics

300964.1 Introduction to Engineering Practice

Spring session

200238.2 Mathematics for Engineers 2

300021.2 Electrical Fundamentals

300463.2 Fundamentals of Mechanics

300965.1 Engineering Materials

Year 2 - Year 4

Students must then select one of the following key programs

Students may transfer to 3691 Bachelor of Engineering Science at the end of Year 2 of study.

Penrith and Parramatta Campuses

Note: Only the Years 1, 2 and 3 units will be offered at Parramatta Campus - Victoria Road in 2019.

KT3135.1	Civil
KT3151.1	Construction
KT3137.1	Electrical
KT3138.1	Mechanical
KT3139.1	Robotics and Mechatronics

Sydney City campus

KT3135.1	Civil
KT3137.1	Electrical
KT3138.1	Mechanical

Bachelor of Engineering Advanced (Honours)

3690.4

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

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

The Bachelor of Engineering Advanced (Honours) is a four year honours degree program with common first year structure. The program has been designed to meet Engineers Australia professional accreditation requirements. Students have the opportunity to focus on a discipline area by selecting a key program in Civil, Construction, Electrical, Mechanical, and Robotic & Mechatronic engineering. In addition, students can specialise by selecting a sub-major from a wide range of recommended unit sets that will complement their chosen discipline. Honours class will be awarded at completion of four years of study, based on the overall academic performance during the study period. Students in this program will need to maintain at least credit average GPA throughout their study; those not meeting this academic performance requirement will be transferred to Bachelor of Engineering (Honours) program.

Study Mode

Four years full-time study or eight years part-time.

Location

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

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

Advanced Standing

Successful applicants for Advanced Standing may be required to travel to different Western Sydney University campuses to complete the elements of their course.

Accreditation

This course has Full Accreditation at the level of Professional Engineer at Penrith campus and Provisional Accreditation at the level of Professional Engineer at Parramatta South and Sydney City Campuses. Graduates of this program are eligible to apply for full membership of Engineers Australia. They are eligible to apply for Chartered Professional Engineering registration upon successful completion of required engineering practice period specified by Engineers Australia.

Inherent requirements

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

Admission

Recommended studies: Physics and HSC Mathematics Extension 1 or HSC Mathematics Extension 2.

Assumed knowledge required: Two units of Science, two units of English and Mathematics at Band 5 or higher.

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

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

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

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

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

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

Course Structure

Academic Course Advisor

Assoc Prof Sarah Zhang is the Academic Course Advisor for Key Programs in Civil and Construction at Penrith Campus.

Assoc Prof Haiping Zhu is the Academic Course Advisor for Key Programs in Civil and Construction at Parramatta South Campus.

Dr Jamal Rizk is the Academic Course Advisor for Key Program in Electrical.

Dr Ming Zhao is the Academic Course Advisor for Key Programs in Mechanical and Robotics & Mechatronics.

Recommended Sequence

Qualification for this award requires the successful completion of 320 credit points which include the units listed in the recommended sequence below.

Full-time

Year 1

Autumn session

200237.4	Mathematics for Engineers 1
300027.2	Engineering Computing
300963.1	Engineering Physics
300964.1	Introduction to Engineering Practice

Spring session

200238.2	Mathematics for Engineers 2
300021.2	Electrical Fundamentals
300463.2	Fundamentals of Mechanics
300965.1	Engineering Materials

Year 2 - Year 4

Students must then select one of the following key programs

Students may transfer to 3740 Bachelor of Engineering (Honours) or 3691 Bachelor of Engineering Science at the end of Year 2 of study.

Note: Only the Years 1 and 2 units will be offered at Parramatta Campus - Victoria Road in 2018.

KT3118.1	Civil
KT3152.1	Construction
KT3120.1	Electrical
KT3140.1	Mechanical
KT3141.1	Robotics and Mechatronics

Bachelor of Engineering (Honours)/ Bachelor of Business

3728.2

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

The Bachelor of Engineering (Honours)/Bachelor of Business double degree permits students to undertake multi-skilling and offers diverse career paths providing high marketability in multiple engineering and business areas. The Engineering degree provides students with professional skills in each of the five key areas students choose to study. The five engineering key programs are Civil, Construction, Electrical, Mechanical, and Robotics & Mechatronics. Depending on the Business Major selected, employment possibilities are available in conventional engineering industries and also in areas including Applied Finance, Economics, Management, or Marketing. Graduates will be equipped to work as engineers, with a good understanding of business principles and practices.

Study Mode

Five years full-time or ten years part-time. The Bachelor of Engineering (Honours) is offered on Penrith and Parramatta Campuses. The Bachelor of Business offers a number of its majors at Bankstown, Campbelltown and Parramatta campuses. Students may be required to travel between campuses in order to complete these B Business majors.

Location

Campus	Attendance	Mode
Bankstown Campus	Full Time	Internal
Bankstown Campus	Part Time	Internal
Campbelltown Campus	Full Time	Internal
Campbelltown Campus	Part Time	Internal
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal
Penrith Campus	Full Time	Internal
Penrith Campus	Part Time	Internal

Accreditation

Bachelor of Engineering (Honours): This course has Full Accreditation at the level of Professional Engineer at Penrith campus and Provisional Accreditation at the level of Professional Engineer at Parramatta South campus. Graduates of this program are eligible to apply for full membership of Engineers Australia. They are eligible to apply for Chartered Professional Engineering registration upon successful completion of required engineering practice period specified by Engineers Australia. Bachelor of Business: Where the full recommended unit sequence of the major is satisfactorily completed: Major MT2024 Human Resource Management is accredited with the Australian Human Resources Institute (AHRI). Major MT2021 Applied Finance satisfies the educational requirements for membership of the Financial Services Institute of Australasia (Finsia). MT2027 - Marketing satisfies the educational requirements for recognition as a Certified Practising Marketer and eligibility for membership of the Australian Marketing Institute (AMI).

Inherent requirements

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

Admission

Eligibility for admission to the Bachelor of Engineering (Honours)/Bachelor of Business is based on the following requirements:

The following sets of Assumed Knowledge and Recommended Studies apply.

Assumed Knowledge: HSC Mathematics (Band 5 or higher), any two units of science, any two units of English.

Recommended studies: Physics, HSC Mathematics Extension 1 or HSC Mathematics Extension 2.

Practical Experience: A session of industrial experience is required at the end of the third or fourth year.

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

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

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

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

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

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

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

Course Structure

Qualification for this award requires the successful completion of 400 credit points which include the units in the recommended sequence below.

Students who complete this award will graduate with two testamurs

- Bachelor of Engineering (Honours), with the Bachelor of Engineering key program noted on the testamur, and
- Bachelor of Business, with the Bachelor of Business Major noted on the testamur.

Engineering Component

Students must study seven Engineering Foundation units followed by 15 Engineering Core units and two Engineering Thesis units in one of the following Bachelor of Engineering (Honours) programs.

KT3143.1	Civil
KT3144.1	Construction
KT3145.1	Electrical

KT3146.1 Mechanical
KT3147.1 Robotics and Mechatronics

Business Component

Core units (compulsory 40 credit points)

200909.2 Enterprise Law
200910.1 Financing Enterprises
200911.1 Enterprise Innovation and Markets
200912.1 Enterprise Leadership

Professional units (choose 40 credit points)

The professional units provide a focus on careers. Students are required to complete one unit from each of the four key focus areas: numeracy, career planning, innovation, and enterprise engagement, a total of 40 credit points. Students are advised to choose units that will support careers in one of three areas: Money (for majors in Applied Finance and Economics), Markets (for majors in Hospitality Management, International Business, Marketing and Sport Management), Management (for majors in Human Resource Management and Management). The professional units that are recommended for each of the Bachelor of Business testamur majors are specified in the majors.

Majors - choose 80 credit points from one primary Business major. These are testamur majors.

Use the links below to each Bachelor of Business major see the list of core, professional and major units required. Students should follow the recommended sequence listed under each Bachelor of Engineering (Honours) program via the links above and not the recommended sequence listed under each Bachelor of Business Major.

Majors for Careers in Money

MT2021.1 Applied Finance
MT2022.1 Economics

Majors for Careers in Markets

MT2035.1 Hospitality Management
MT2025.1 International Business
MT2027.1 Marketing
MT2036.1 Sport Management

Majors for Careers in Management

MT2024.1 Human Resource Management
MT2026.1 Management

Bachelor of Engineering Science

3691.5

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

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

The Bachelor of Engineering Science is a three year degree program with common first year structure. Students have the opportunity to focus on a discipline area by selecting a key program in Civil, Construction, Electrical, Mechanical, and Robotic & Mechatronic engineering. The program has been developed with the view of enabling graduates to practice as an engineering technologist in their chosen field. The three year Bachelor of Engineering Science program may be used as a pathway to the four year Bachelor of Engineering program that meets Engineers Australia professional accreditation requirements; an academic performance criteria will be the eligibility criteria for such transfer.

Study Mode

Three years full-time or six years part-time.

Location

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal
Penrith Campus	Full Time	Internal
Penrith Campus	Part Time	Internal
Sydney City Campus	Full Time	Internal

Advanced Standing

Successful applicants for Advanced Standing may be required to travel to different Western Sydney University campuses to complete the elements of their course.

Inherent requirements

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

Admission

Recommended studies: Physics and HSC Mathematics.
Assumed Knowledge: Two units of Science, two units of English and Mathematics (not General Mathematics) at Band 4 or higher.

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

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

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

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

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

Course Structure

Academic Course Advisor

Assoc Prof Sarah Zhang is the Academic Course Advisor for Key Programs in Civil and Construction at Penrith Campus.

Assoc Prof Haiping Zhu is the Academic Course Advisor for Key Programs in Civil and Construction at Parramatta South Campus.

Dr Jamal Rizk is the Academic Course Advisor for Key Program in Electrical.

Dr Ming Zhao is the Academic Course Advisor for Key Programs in Mechanical and Robotics & Mechatronics.

Recommended Sequence

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequences below.

Sydney City Campus

Full-time Autumn Intake - Parramatta and Penrith Campuses

Year 1

Autumn session

300027.2	Engineering Computing
300963.1	Engineering Physics
300964.1	Introduction to Engineering Practice

Choose one of

300743.3	Mathematics for Engineers Preliminary
200237.4	Mathematics for Engineers 1

Note: All students are required to enrol in 300743 Mathematics for Engineers Preliminary first and undertake a readiness test at the beginning of their study.

This test will be conducted at the beginning of the first semester of enrolment and the result will determine whether a student will remain in 300743 Mathematics for Engineers Preliminary or be transferred by the School to 200237 Mathematics for Engineers 1.

The students who finish 300743 Mathematics for Engineers Preliminary will then use this unit as an elective.

Spring session

300021.2	Electrical Fundamentals
300463.2	Fundamentals of Mechanics
300965.1	Engineering Materials

Choose one of

200237.4	Mathematics for Engineers 1
200238.2	Mathematics for Engineers 2

Note: Students who remained in 300743 Mathematics for Engineers Preliminary during the first semester will be

required to complete 200237 Mathematics for Engineers 1 during second semester.

These students must then complete 200238 Mathematics for Engineers 2 during the Summer session.

Year 2 - Year 3

Students must then select one of the following key programs

Penrith and Parramatta Campuses

KT3123.1	Civil
KT3153.1	Construction
KT3125.1	Electrical
KT3142.1	Mechanical
KT3127.1	Robotics and Mechatronics

Sydney City Campus

KT3123.1	Civil
KT3125.1	Electrical
KT3142.1	Mechanical

Bachelor of Entrepreneurship

3747.1

The Bachelor of Entrepreneurship is not a stand-alone degree, but is designed to be undertaken in combination with any Western Sydney bachelor degree. The degree is an innovative approach to training the next generation of high impact entrepreneurs by providing knowledge and developing practical skills. The course aims to guide students through all phases of their entrepreneurship journey: from forming a team to helping with pitching their ideas to potential investors and developing strategies for obtaining funding.

Students will not be limited to learning a particular profession, but will also engage in the process of building a start-up company. The key emphasis of this course is on developing the mindset, risk tolerance, creativity, passion, big thinking, team formation and leadership capabilities – key characteristics of high impact entrepreneurs. Practical experience is incorporated into every semester of study, such as incubators, technology parks, and innovation centres and enabling a student through all the stages from creative ideas through the sustainable development of the idea into a lean start-up. Upon completion graduates will demonstrate an entrepreneurial mind set and will know how to apply this mindset to address a diverse range of problems through game and simulation-based solutions.

Students will have the ability to complete the Bachelor of Entrepreneurship as either intertwined with the student's primary degree and studied concurrently, or as a final year block of units at the end of their primary degree.

Study Mode

Three years full-time or the equivalent part-time. Note: This includes two years equivalent Advanced Standing for prior undergraduate degree.

Location

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

Admission

Student must meet the requirements for admission of their primary course, before they can be admitted into the Bachelor of Entrepreneurship.

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

For current Western Sydney University students wishing to enrol please complete the Course Choice Form available on the University's Students webpage.

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

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

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

Course Structure

The Bachelor of Entrepreneurship is not a stand-alone degree, but is designed to be undertaken in combination with any Western Sydney bachelor degree.

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequence below and 160 credit points of Advanced Standing. At least 80 credit points must be completed while enrolled in the Bachelor of Entrepreneurship.

Core Units

200979.1	Foundations of Entrepreneurship
301165.1	Incubator 1: Innovation and Creativity for Entrepreneurship
301166.1	Incubator 2: Legal and Ethical Setting of Entrepreneurship

From Spring 2018, students are advised to select the following equivalent unit 301206 Incubator 2: Start-up Essentials in place of 301166 Incubator 2: Legal and Ethical Setting of Entrepreneurship.

301206.1	Incubator 2: Start-up Essentials
301168.1	Incubator 3: Product Development
301169.1	Incubator 4: Commercial and Financial Setting of Entrepreneurship
301170.1	Incubator 5: Operational Aspects of Entrepreneurship
301171.1	Incubator 6: Funding and Start-up
301172.1	Incubator 7: Growth and Exit Strategies

Plus 160 credit points of advanced standing which must include a minimum of:

30 credit points at Level 3 units for a three year degree (240 credit points)

90 credit points at Level 3 or above for a four year degree (320 credit points)

Bachelor of Entrepreneurship (Games Design and Simulation)**3746.2**

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

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

The Bachelor of Entrepreneurship (Games Design and Simulation) is an innovative approach to training the next generation of high impact entrepreneurs by providing the knowledge and developing the practical skills that make them successful. Simulations and game technologies are part of our everyday environment and are present in almost every profession. Whilst the specialist focus of the degree is game and simulation development, the course connects it with the art of entrepreneurship and aims to guide students through all phases of their entrepreneurship journey: from forming a team to helping with pitching their ideas to potential investors and developing strategies for obtaining funding.

Students will not be limited to learning a particular profession, but will also engage in the process of building a start-up company. The key emphasis of this course is on developing the mindset, risk tolerance, creativity, passion, big thinking, team formation and leadership capabilities – key characteristics of high impact entrepreneurs. Practical experience is incorporated into every semester of study, such as incubators, technology parks, and innovation centres and enabling student through all the stages from creative ideas through the sustainable development of the idea into a lean start-up. The games design and simulation specialisation converts the passion for playing games into deep knowledge of the science and art of problem solving through development and application of games and simulations. This area of study includes gamification, games design, game-based learning, and psychology of gaming, serious games, games entrepreneurship, as well as broader modelling and simulation. Upon completion graduates will demonstrate an entrepreneurial mind set and will know how to apply this mindset to address a diverse

range of problems through game and simulation-based solutions.

Study Mode

Three years full-time or six years part-time.

Location

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

Accreditation

This course has provisional accreditation with the Australian Computer Society (ACS).

Admission

Selection is on the basis of Academic merit (ATAR or its equivalent).

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

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

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

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

Course Structure

Qualification for this award requires the successful completion of 240 credit points made up as follows

- 120 credit points core units
- 80 credit points of specialist units from one of the following majors

MT3012.1	Game Programming
MT3013.1	Game Design

- 40 credit points of specialist units from either electives or one of the following sub-majors

SM3096.1	Advanced Game Programming
SM3097.1	Advanced Game Design

The Advanced Game Programming sub-major in this degree is intended to be combined with the Game Programming major.

The Advanced Game Design sub-major is intended to be combined with the Game Design major.

Recommended Sequence

Start year Intake Full-time

Year 1

Autumn session

200979.1	Foundations of Entrepreneurship
300491.2	Games Technology
301164.2	3D Modelling Fundamentals

Major unit 1

Spring session

301165.1	Incubator 1: Innovation and Creativity for Entrepreneurship
301206.1	Incubator 2: Start-up Essentials
300580.3	Programming Fundamentals
301167.1	Simulation Fundamentals

Year 2

Autumn session

301168.1	Incubator 3: Product Development
301169.1	Incubator 4: Commercial and Financial Setting of Entrepreneurship

Major unit 2

Sub-major unit 1 or elective 1

Spring session

301170.1	Incubator 5: Operational Aspects of Entrepreneurship
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Major unit 3

Major unit 4

Sub-major unit 2 or elective 2

Year 3

Autumn session

301171.1	Incubator 6: Funding and Start-up
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Major unit 5

Major unit 6

Sub-major unit 3 or elective 3

Spring session

301172.1	Incubator 7: Growth and Exit Strategies
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Major unit 7
Major unit 8
Sub-major unit 4 or elective 4

Mid-year Intake Full-time

Year 1

Spring session

200979.1 Foundations of Entrepreneurship
301165.1 Incubator 1: Innovation and Creativity for Entrepreneurship
300580.3 Programming Fundamentals
301167.1 Simulation Fundamentals

Year 2

Autumn session

301206.1 Incubator 2: Start-up Essentials
300491.2 Games Technology
301164.2 3D Modelling Fundamentals

Major unit 1

Spring session

301168.1 Incubator 3: Product Development

Major unit 2
Major unit 3
Sub-major unit 2 or elective 1

Year 3

Autumn session

301169.1 Incubator 4: Commercial and Financial Setting of Entrepreneurship
301170.1 Incubator 5: Operational Aspects of Entrepreneurship

Major unit 4
Sub-major unit 1 or elective 2

Spring session

301171.1 Incubator 6: Funding and Start-up

Major unit 5
Major unit 6
Sub-major unit 4 or elective 3

Year 4

Autumn session

301172.1 Incubator 7: Growth and Exit Strategies

Major unit 7
Major unit 8
Sub-major unit 3 or elective 4

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies. Students can apply for an elective major or sub-major via MySR.

Bachelor of Industrial Design

3730.2

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

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

The Bachelor of Industrial design program prepares students for the profession with a new culture of learning supported by user/student-centered approach, competency learning, design studio-project based learning, applied design research and innovation. With a shorter time span between thinking and making, our new graduates in industrial design create and innovate by value adding, better experiences and interaction, products, businesses and systems. They are thinker-makers and design entrepreneurs, self-starters and all-rounders that can figure out and problem-solve ambiguity, work independently or in collaboration with others in new product development teams, user experience and interaction, product service systems, production and manufacturing.

The program provides an array of three majors (Graphics and Visualisation, Design Management and Entrepreneurship, and Design-Led Innovation and Management) and five sub-majors (Visualisation, Human Interaction, Industrial Manufacturing, Design Management, Responsible Design and Sustainability). The course pathway is transformative by practice on progressive priorities of product, process, people and place. Students are required to undertake a major and sub-major from different streams to complete the course. The course culminates in a final year industrial design project intending to develop visionary work leading to industry placement, Masters or PhD research.

Common occupations for industrial designers are in technological innovation (i.e. electronic, construction and building, medical and scientific), durable and fast moving consumer goods (i.e. commercial and domestic appliances, white goods, food, tools, packaging), entertainment and games (i.e. games development, model making, film and animation), online and e-learning solutions (i.e. web design, e-commerce, flexible learning), user-centered design (i.e. user experience, graphic user interface, natural user interface, tangible interaction, human computer interaction, human machine interaction, visualization and simulation), and traditional product and manufacturing (i.e. CAD/CAM, Rapid Prototyping, tooling). Graduates are eligible for membership of the Design Institute of Australia (DIA).

Study Mode

Four years full-time or eight years part-time.

Location

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

Advanced Standing

Successful applicants for Advanced Standing may be required to travel to different Western Sydney University campuses to complete the elements of their course.

Accreditation

Graduates are eligible for membership of the Design Institute of Australia (DIA)

Admission

Assumed knowledge: any two units of English plus at least two units of Design, Design and Technology, Visual Arts, Digital Multimedia, Engineering, or Business Studies.

Alternate Entry

Entry by interview in which personal aptitude, professional experience, and educational qualifications are taken into consideration supported by a portfolio of works. After applicants have applied they are required to book an interview and download a questionnaire at this University's online booking system.

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

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

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

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

Course Structure

Qualification for this award requires the successful completion of 320 credit points which include the units listed in the recommended sequence below.

To be eligible to graduate from this course, students are required to complete a sub-major from the list below.

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

301030.2	Introduction to Industrial Design Methods
300016.3	Design Science
301073.1	Design Studio 1: Patterns and Products
301074.2	Graphics 1: 2D and 3D Industrial Design Communication

Spring session

301075.1	Design Studio 2: Form and Production
301076.1	Graphics 2: Visual Simulation
301095.1	Sustainable Design 1: Materials and Technology
301077.1	Mathematics for Industrial Design

Year 2**Autumn session**

301078.1	Design Studio 3: Design, Process and Function
301079.1	Graphics 3: 3D Engineering Specifications and Visualisation
300570.3	Human-Computer Interaction

And one major/sub-major alternate unit or elective

Spring session

301080.1	Design Studio 4: Innovation through Systems Thinking
301081.2	Sustainable Design 2: Product Service Systems
301082.1	Design Management 2: Operation and Supply Chain

And one major/sub-major alternate unit or elective

Year 3**Autumn session**

301083.2	Design Studio 5: Symbol and Meaning Making
300014.3	Design Management 3: Organisational Skills for Designers

And two major/sub-major alternate units or electives

Spring session

301084.1	Design Studio 6: Ambience, Place and Behaviour
301090.1	Contextual Inquiry

And two major/sub-major alternate units or electives

Industrial Experience

300775.2	Industrial Experience
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Year 4**Autumn session****300459.3** Major Project Commencement

And two alternate units - selected based on final year theme/issue in consultation with the Unit Coordinator.

Spring session**300460.3** Major Project Completion

And one alternate unit - selected based on final year theme/issue in consultation with the Unit Coordinator.

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

301075.1 Design Studio 2: Form and Production
301076.1 Graphics 2: Visual Simulation
301095.1 Sustainable Design 1: Materials and Technology
301077.1 Mathematics for Industrial Design

Autumn session

301030.2 Introduction to Industrial Design Methods
301079.1 Graphics 3: 3D Engineering Specifications and Visualisation
301073.1 Design Studio 1: Patterns and Products
301074.2 Graphics 1: 2D and 3D Industrial Design Communication

Year 2**Spring session**

301080.1 Design Studio 4: Innovation through Systems Thinking
301081.2 Sustainable Design 2: Product Service Systems
301082.1 Design Management 2: Operation and Supply Chain

And one major/sub-major alternate unit or elective

Autumn session

301078.1 Design Studio 3: Design, Process and Function
300016.3 Design Science
300570.3 Human-Computer Interaction

And one major/sub-major alternate unit or elective

Industrial Experience**300775.2** Industrial Experience**Year 3****Spring session**

301084.1 Design Studio 6: Ambience, Place and Behaviour
301090.1 Contextual Inquiry

And two major/sub-major alternate units or electives

Autumn session

301083.2 Design Studio 5: Symbol and Meaning Making
300014.3 Design Management 3: Organisational Skills for Designers
300459.3 Major Project Commencement

Year 4**Spring session****300460.3** Major Project Completion

And one alternate unit - selected based on final year theme/issue in consultation with the Unit Coordinator.

Autumn session

And two alternate units - selected based on final year theme/issue in consultation with the Unit Coordinator.
 And two major/sub-major alternate units or electives

Majors and Sub-majors

The Bachelor of Industrial Design is offered on Parramatta (Victoria Road) Campus only. Students may be required to travel between campuses in order to complete some units within specific majors and sub-majors.

Majors

M3091.1 Visualisation and Graphics
M3092.1 Design Management and Entrepreneurship
M3093.1 Design-led Innovation and Management

Sub-majors

SM3084.1 Visualisation
SM3085.1 Human-Computer Interaction
SM3086.1 Industrial Manufacturing
SM3087.1 Design Management
SM3088.1 Responsible Design and Sustainability

Optional Elective

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

301089.1 Special Technical Project**Bachelor of Industrial Design (Honours)****3731.2**

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

Units may be revised or replaced to ensure students are provided with up to date curriculum throughout their

studies, and this may result in a new course version. Refer to the Check My Course Progress page in MySR for the most up to date information for your course.

The Bachelor of Industrial design program prepares students for the profession with a new culture of learning supported by user/student-centered approach, competency learning, design studio-project based learning, applied design research and innovation. With a shorter time span between thinking and making, our new graduates in industrial design create and innovate by value adding, better experiences and interaction, products, businesses and systems. They are thinker-makers and design entrepreneurs, self-starters and all-rounders that can figure out and problem-solve ambiguity, work independently or in collaboration with others in new product development teams, user experience and interaction, product service systems, production and manufacturing.

The program provides an array of three majors (Graphics and Visualisation, Design Management and Entrepreneurship, and Design-Led Innovation and Management) and five sub-majors (Visualisation, Human Interaction, Industrial Manufacturing, Design Management, Responsible Design and Sustainability). The course pathway is transformative by practice on progressive priorities of product, process, people and place. Students are required to undertake a major and sub-major from different streams to complete the course. The course culminates in a final year industrial design project intending to develop visionary work leading to industry placement, Masters or PhD research.

Common occupations for industrial designers are in technological innovation (i.e. electronic, construction and building, medical and scientific), durable and fast moving consumer goods (i.e. commercial and domestics appliances, white goods, food, tools, packaging), entertainment and games (i.e. games development, model making, film and animation), online and e-learning solutions (i.e. web design, e-commerce, flexible learning), user-centered design (i.e. user experience, graphic user interface, natural user interface, tangible interaction, human computer interaction, human machine interaction, visualization and simulation), and traditional product and manufacturing (i.e. CAD/CAM, Rapid Prototyping, tooling). Graduates are eligible for membership of the Design Institute of Australia (DIA).

Study Mode

Four years full-time or eight years part-time.

Location

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

Advanced Standing

Successful applicants for Advanced Standing may be required to travel to different Western Sydney University campuses to complete the elements of their course.

Accreditation

Graduates are eligible for membership of the Design Institute of Australia (DIA)

Admission

Assumed knowledge: any two units of English plus at least two units of Design, Design and Technology, Visual Arts, Digital Multimedia, Engineering, or Business Studies.

Alternate Entry

Entry by interview in which personal aptitude, professional experience, and educational qualifications are taken into consideration supported by a portfolio of works. After applicants have applied they are required to book an interview and download a questionnaire at this University's online booking system.

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

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

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

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

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

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

Course Structure

Qualification for this award requires the successful completion of 320 credit points which include the units listed in the recommended sequence below.

To be eligible to graduate from this course, students are required to complete a sub-major from the list below.

Start year Intake

Year 1

Autumn session

301030.2	Introduction to Industrial Design Methods
300016.3	Design Science
301073.1	Design Studio 1: Patterns and Products
301074.2	Graphics 1: 2D and 3D Industrial Design Communication

Spring session

301075.1	Design Studio 2: Form and Production
301076.1	Graphics 2: Visual Simulation
301095.1	Sustainable Design 1: Materials and Technology
301077.1	Mathematics for Industrial Design

Year 2**Autumn session**

- 301078.1** Design Studio 3: Design, Process and Function
- 301079.1** Graphics 3: 3D Engineering Specifications and Visualisation
- 300570.3** Human-Computer Interaction

And one major/sub-major alternate unit or elective

Spring session

- 301080.1** Design Studio 4: Innovation through Systems Thinking
- 301081.2** Sustainable Design 2: Product Service Systems
- 301082.1** Design Management 2: Operation and Supply Chain

And one major/sub-major alternate unit or elective

Year 3**Autumn session**

- 301083.2** Design Studio 5: Symbol and Meaning Making
- 300014.3** Design Management 3: Organisational Skills for Designers

And two major/sub-major alternate units or electives

Spring session

- 301084.1** Design Studio 6: Ambience, Place and Behaviour
- 301090.1** Contextual Inquiry

And two major/sub-major alternate units or electives

Industrial Experience

- 300775.2** Industrial Experience

Year 4**Autumn session**

- 300773.2** Industrial Design Project (Commencement)

And one alternate unit - selected based on final year theme/issue in consultation with the Unit Coordinator

Spring session

- 300774.2** Industrial Design Project (Completion)

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

- 301075.1** Design Studio 2: Form and Production
- 301076.1** Graphics 2: Visual Simulation
- 301095.1** Sustainable Design 1: Materials and Technology
- 301077.1** Mathematics for Industrial Design

Autumn session

- 301030.2** Introduction to Industrial Design Methods
- 301079.1** Graphics 3: 3D Engineering Specifications and Visualisation
- 301073.1** Design Studio 1: Patterns and Products
- 301074.2** Graphics 1: 2D and 3D Industrial Design Communication

Year 2**Spring session**

- 301080.1** Design Studio 4: Innovation through Systems Thinking
- 301081.2** Sustainable Design 2: Product Service Systems
- 301082.1** Design Management 2: Operation and Supply Chain

And one major/sub-major alternate unit or elective

Autumn session

- 301078.1** Design Studio 3: Design, Process and Function
- 300016.3** Design Science
- 300570.3** Human-Computer Interaction

And one major/sub-major alternate unit or elective

Industrial Experience

- 300775.2** Industrial Experience

Year 3**Spring session**

- 301084.1** Design Studio 6: Ambience, Place and Behaviour
- 301090.1** Contextual Inquiry

And two major/sub-major alternate units or electives

Autumn session

- 301083.2** Design Studio 5: Symbol and Meaning Making
- 300773.2** Industrial Design Project (Commencement)

Year 4**Spring session**

- 300774.2** Industrial Design Project (Completion)

Autumn session

- 300014.3** Design Management 3: Organisational Skills for Designers

And one alternate units - selected based on final year theme/issue in consultation with the Unit Coordinator

And two major/sub-major alternate units or electives

Majors and Sub-majors

The Bachelor of Industrial Design (Honours) is offered on Parramatta (Victoria Road) Campus only. Students may be

required to travel between campuses in order to complete some units within specific Majors and Sub-majors.

Majors

M3091.1	Visualisation and Graphics
M3092.1	Design Management and Entrepreneurship
M3093.1	Design-led Innovation and Management

Sub-majors

SM3084.1	Visualisation
SM3085.1	Human-Computer Interaction
SM3086.1	Industrial Manufacturing
SM3087.1	Design Management
SM3088.1	Responsible Design and Sustainability

Optional Elective

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

301089.1 Special Technical Project

Bachelor of Information and Communications Technology

3639.4

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

The Bachelor of Information and Communications Technology is a three year course accredited by the Australian Computer Society. It provides graduates with skills and knowledge in networking and IT applications development, along with the ability to apply practical ICT solutions in real-world situations. Units available offer a solid foundation across several domains including Networking, Databases, Systems Analysis & Design, Programming, Web and Mobile Technologies, Project Management, Professional Communications, Operating Systems and Human Computer Interaction. It also covers the necessary mathematical and statistical skills as needed by an ICT practitioner. The structure of the Course provides scope for electives, sub-majors or majors in further studies including the areas of Mobile Computing and Application Development, Entertainment Computing, Astroinformatics, Health Informatics, Social Media Analytics, Networking, Health Information Management, Mathematics, Statistics, Systems Security and IT Support. NB: Majors/ sub-majors may not be offered on all campuses.

Study Mode

Three years full-time

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Full Time	Internal
Penrith Campus	Full Time	Internal
Sydney City Campus	Full Time	Internal

Accreditation

On completion of this Course graduates will be eligible for professional membership of the Australian Computer Society.

Admission

Assumed knowledge required: HSC Mathematics and any two units of HSC English

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

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

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

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

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

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

Course Structure

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequence below.

Recommended Sequence - Sydney City Campus

Recommended Sequence - Campbelltown, Parramatta and Penrith Campuses

Full-time Start Year Intake

Year 1

Autumn session

300580.3	Programming Fundamentals
100483.2	Principles of Professional Communication 1
300585.2	Systems Analysis and Design
300700.6	Statistical Decision Making

Spring session

300565.2	Computer Networking
300581.4	Programming Techniques
300104.4	Database Design and Development

And one elective

Year 2**Autumn session**

300582.5	Technologies for Web Applications
300095.5	Computer Networks and Internets
300144.5	Object Oriented Analysis

And one elective

Spring session

300583.3	Web Systems Development
300958.2	Social Web Analytics

And two electives

Year 3**Autumn session**

300570.3	Human-Computer Interaction
300578.3	Professional Development
300698.4	Operating Systems Programming

And one elective

Spring session

300579.6	Professional Experience
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And three electives

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

300565.2	Computer Networking
300104.4	Database Design and Development
300700.6	Statistical Decision Making

Please Note: 300700 Statistical Decision Making is only offered in Autumn session. Students in Full-time Mid Year are required to enrol in the equivalent unit 200032 Statistics for Business.

And one elective

Autumn session

300580.3	Programming Fundamentals
300585.2	Systems Analysis and Design
300095.5	Computer Networks and Internets
100483.2	Principles of Professional Communication 1

Year 2**Spring session**

300581.4	Programming Techniques
300958.2	Social Web Analytics

And two electives

Autumn session

300582.5	Technologies for Web Applications
300578.3	Professional Development
300144.5	Object Oriented Analysis
300570.3	Human-Computer Interaction

Year 3**Spring session**

300583.3	Web Systems Development
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And three electives

Autumn session

300579.6	Professional Experience
300698.4	Operating Systems Programming

And two electives

Start Year 2.5 Year Accelerated Pathway with Summer Session**Year 1****Autumn session**

300580.3	Programming Fundamentals
100483.2	Principles of Professional Communication 1
300585.2	Systems Analysis and Design
300700.6	Statistical Decision Making

Spring session

300581.4	Programming Techniques
300565.2	Computer Networking
300104.4	Database Design and Development

And one elective

Summer A session

300582.5	Technologies for Web Applications
300570.3	Human-Computer Interaction

Year 2**Autumn session**

300095.5	Computer Networks and Internets
300144.5	Object Oriented Analysis

And two electives

Spring session

300583.3	Web Systems Development
300958.2	Social Web Analytics

And two electives

Summer A session

300578.3	Professional Development
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And one elective

Please note that the choice of elective unit in Summer A session may restrict the choice of major that can be completed.

Year 3

Autumn session

300579.6 Professional Experience
300698.4 Operating Systems Programming

And two electives

Mid-Year 2.5 Year Accelerated Pathway with Summer Session

Year 1

Spring session

300565.2 Computer Networking
300104.4 Database Design and Development
300700.6 Statistical Decision Making

Please Note: 300700 Statistical Decision Making is only offered in Autumn session. Students in Full-time Mid Year are required to enrol in the equivalent unit 200032 Statistics for Business.

And one elective

Summer A session

300585.2 Systems Analysis and Design
300570.3 Human-Computer Interaction

Autumn session

300580.3 Programming Fundamentals
300095.5 Computer Networks and Internets
300144.5 Object Oriented Analysis
100483.2 Principles of Professional Communication 1

Year 2

Spring session

300581.4 Programming Techniques
300958.2 Social Web Analytics

And two electives

Summer A session

300582.5 Technologies for Web Applications

And one elective

Please note that the choice of elective unit in Summer A session may restrict the choice of major that can be completed.

Autumn session

300578.3 Professional Development
300698.4 Operating Systems Programming

And two electives

Year 3

Spring session

300583.3 Web Systems Development
300579.6 Professional Experience

And two electives

Electives for Majors and Sub-majors

Please note: Majors and sub-majors are optional.

Majors

Campbelltown, Parramatta and Penrith Campuses

M3102.1 Cyber Security

Please note from 2019 M3102 Cyber Security is replaced by M3116 Cyber Security.

M3116.1 Cyber Security
M3068.1 Entertainment Computing
M3097.1 Health Informatics
M3054.1 Mathematics
M3074.1 Mobile Computing
M3070.1 Networking

Please note from 2018 M3070 Networking is replaced by M3109 Networking

M3109.1 Networking

Sydney City Campus

M3074.1 Mobile Computing
M3070.1 Networking

Please note from 2018 M3070 Networking is replaced by M3109 Networking

M3109.1 Networking

Sub-majors

Campbelltown, Parramatta and Penrith Campuses

SM3080.1 Astroinformatics
SM3101.1 Cloud Computing
SM3052.1 Entertainment Computing
SM3090.1 Health Informatics
SM3054.1 IT Support
SM3025.1 Mathematics
SM3057.1 Mobile Computing
SM3055.1 Networking
SM3053.1 Social Media Analytics
SM3089.1 Statistics
SM3077.1 Systems Security
SM3056.1 Web Application Development (for Computing Students)

Please note from 2018 SM3055 Networking is replaced by SM3095 Networking

SM3095.1 Networking

The following majors and sub-majors are only available to undergraduate students enrolled in other Western Sydney University courses. Students in the Bachelor of Information

and Communications Technology should choose from the list of optional majors and sub-majors above.

M3002.1	Information Technology
M3003.1	Web Systems Development
SM3058.1	Mobile Application Development (for Non-Computing Students only)
SM3078.1	Web Application Development (for Non-Computing Students)

Major and Sub-major elective spaces

Elective units may be used toward obtaining an additional approved Major (80 credit points) or Sub-major (40 credit points).

Western Sydney University offers Majors and Sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective Major or Sub-major via MySR.

Bachelor of Information and Communications Technology (Advanced)

3684.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2014 or later.

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

The Bachelor of Information and Communications Technology (Advanced) is a challenging course that includes advanced coursework, extension project and basic research training. A mentoring program will link the student with experienced academic staff and research groups within the University. This professional ICT course cultivates capable ICT graduates for the high end of ICT professions. This course provides graduates with a comprehensive skill set and knowledge base in networking and IT applications areas of ICT and the ability to apply practical solutions across ICT. It allows students to develop considerable skills in application development (including mobile app development), program design, systems analysis & design, networks, web-design, and the implementation of technology. These attributes can be conceptually grouped into the knowledge and skills necessary to:

The Bachelor of Information and Communications Technology (Advanced) is a three year ICT course with accreditation by the Australian Computer Society being sought. It provides a solid foundation in Networks, Databases, Systems Analysis & Design, Programming, Web Technologies, Project Management, Professional Communications and Operating Systems. It also covers the necessary mathematical and statistical skills, and basic research training as needed by a high end ICT practitioner.

Study Mode

Three years full-time.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal
Parramatta Campus - Victoria Road	Full Time	Internal
Penrith Campus	Full Time	Internal

Accreditation

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

Admission

Assumed knowledge - HSC Mathematics and any two units of HSC English.

Minimum ATAR of 90. Students must maintain a Grade Point Average (GPA) greater than 5.0 to continue their enrolment in this course.

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

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

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

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

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

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

Course Structure

Students within the Advanced degree are required to complete five Advanced units.

Compulsory Advanced Units

- 300903 Programming Techniques (Advanced)
- 300902 Web Systems Development (Advanced)
- 300900 Professional Experience (Advanced)

A further two units to be chosen from

- 300946 Computer Networking (Advanced)

- 300888 Object Oriented Analysis (Advanced)
- 300941 Database Design and Development (Advanced)
- 300901 Human-Computer Interaction (Advanced)
- 300943 Operating Systems Programming (Advanced)

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequences below.

Recommended Sequence

Year 1

Autumn session

- 300580.3** Programming Fundamentals
- 100483.2** Principles of Professional Communication 1
- 300585.2** Systems Analysis and Design
- 300700.6** Statistical Decision Making

Spring session

- 300903.1** Programming Techniques (Advanced)

Choose one of

- 300565.2** Computer Networking
- 300946.1** Computer Networking (Advanced)

Choose one of

- 300104.4** Database Design and Development
- 300941.1** Database Design and Development (Advanced)

And one elective

Year 2

Autumn session

- 300582.5** Technologies for Web Applications
- 300095.5** Computer Networks and Internets

Choose one of

- 300144.5** Object Oriented Analysis
- 300888.2** Object Oriented Analysis (Advanced)

And one elective

Spring session

- 300958.2** Social Web Analytics
- 300902.3** Web Systems Development (Advanced)

And two electives

Year 3

Autumn session

- 300578.3** Professional Development

Choose one of

- 300698.4** Operating Systems Programming

- 300943.1** Operating Systems Programming (Advanced)

Choose one of

- 300570.3** Human-Computer Interaction
- 300901.2** Human-Computer Interaction (Advanced)

And one elective

Spring session

- 300900.2** Professional Experience (Advanced)

And three electives

Majors and Sub-majors

All current majors and sub-majors available to course 3639 Bachelor of Information and Communications Technology are also available to those enrolled in course 3684.2 - Bachelor of Information and Communications Technology (Advanced).

Please see list below

Majors

- M3102.1** Cyber Security

Please note from 2019 M3102 Cyber Security is replaced by M3116 Cyber Security

- M3116.1** Cyber Security
- M3068.1** Entertainment Computing
- M3097.1** Health Informatics
- M3054.1** Mathematics
- M3074.1** Mobile Computing
- M3070.1** Networking

Please note from 2018 M3070 Networking is replaced by M3109 Networking

- M3109.1** Networking

Sub-majors

- SM3080.1** Astroinformatics
- SM3101.1** Cloud Computing
- SM3052.1** Entertainment Computing
- SM3090.1** Health Informatics
- SM3054.1** IT Support
- SM3025.1** Mathematics
- SM3057.1** Mobile Computing
- SM3055.1** Networking
- SM3053.1** Social Media Analytics
- SM3089.1** Statistics
- SM3077.1** Systems Security
- SM3056.1** Web Application Development (for Computing Students)

Please note from 2018 SM3055 Networking is replaced by SM3095 Networking

- SM3095.1** Networking

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Students in Advanced courses may use elective units toward obtaining an additional approved sub-major in Applied Leadership or Critical Thinking.

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Bachelor of Information and Communications Technology (Health Information Management)

3711.1

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

The increasing use of electronic health records requires the accurate and efficient capture, maintenance, security and reporting of health information and the Bachelor of Information Communications Technology (Health Information Management) course will provide students with the knowledge and skills required to build software systems and undertake roles relating to the classification, coding and management of health information within a healthcare setting.

This Course will offer students the opportunity to seek employment in health information management and/or clinical coding, recognised as workforce skills shortage areas. Specific content areas addressed include Health Informatics, Systems Analysis and Design, Medical Terminology, Database Design and Development, Healthcare Data Environments, Clinical Classification and Coding, Programming, Web Development, Computer Networking, Health Service Management, Activity Based Funding and Data Quality and Healthcare Software and Systems.

The course also offers direct industry experience via a 20 day work placement.

Study Mode

Three years full-time or six years part-time.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Multi Modal
Campbelltown Campus	Part Time	Multi Modal
Parramatta Campus - Victoria Road	Full Time	Multi Modal
Parramatta Campus - Victoria Road	Part Time	Multi Modal
Penrith Campus	Full Time	Multi Modal
Penrith Campus	Part Time	Multi Modal

Accreditation

The Bachelor of Information and Communications Technology (Health Information Management) is accredited with the Australian Computer Society (ACS) at Professional

level. Accreditation with the Health Information Management Association of Australia (HIMAA) is currently being sought. Successful certification will see graduates eligible for professional accreditation status with both bodies.

Admission

Applicants may be regarded as eligible for admission if they have completed the NSW HSC and attained the required ATAR (Australian Tertiary Admission Rank), or have completed other equivalent qualifications such as a recognised Diploma or Advanced Diploma.

Recognition of prior learning may be considered for applicants with Certificate III or Certificate IV in conjunction with relevant industry experience.

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

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

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

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

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

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

Course Structure

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequence below.

Recommended Sequence

Year 1

Autumn session

300580.3	Programming Fundamentals
100483.2	Principles of Professional Communication 1
300585.2	Systems Analysis and Design
300700.6	Statistical Decision Making

Spring session

300565.2	Computer Networking
300581.4	Programming Techniques
300104.4	Database Design and Development
300566.2	Introduction to Health Informatics

Year 2**Autumn session**

300582.5	Technologies for Web Applications
300095.5	Computer Networks and Internets
300144.5	Object Oriented Analysis
300950.2	Fundamentals of Medical Concepts and Terminology

Spring session

300583.3	Web Systems Development
300958.2	Social Web Analytics
300955.1	Healthcare Data Environments
400277.4	Health Services Management

Year 3**Autumn session**

300570.3	Human-Computer Interaction
300578.3	Professional Development
300951.2	Clinical Classification and Coding
400787.3	Health Services Management Practice

Spring session

300579.6	Professional Experience
300956.1	Healthcare Software and Systems
300953.1	Advanced Clinical Classification
300954.1	Activity Based Funding/Casemix and Data Quality

Bachelor of Information and Communications Technology/Bachelor of Arts

3654.3

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2014 or later.

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

This double degree program is designed in recognition of the globalising nature of the information technology industry. In addition to providing a strong technical background in IT, the course also provides students the necessary knowledge in majors in the Bachelor of Arts (BA): International Relations and Asian Studies; Cultural and Social Analysis; English; History and Political Thought; Philosophy; Chinese; Japanese, Arabic and Indonesian.

In the IT area, the program allows students to develop skills in application development, program design, systems analysis and design, networks, web-design, and the implementation of technology.

Students in this double degree also have the opportunity to complete a semester of study overseas and receive

advanced standing towards their BA majors and sub majors subject to WSU limits on advanced standing. Students are encouraged to do so but must discuss this with a BA course advisor first.

Study Mode

Four years full-time.

Location**Campus**

Parramatta Campus - Victoria Road

Attendance Mode

Full Time Internal

Accreditation

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

Admission

Assumed knowledge required: HSC Mathematics and any two units of HSC English.

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

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

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

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

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

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

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

Course Structure

Qualification for this award requires the successful completion of 320 credit points as specified in the structure below.

Students who complete this award will graduate with a Bachelor of Information and Communications Technology and a Bachelor of Arts.

The conceptual design of this BICT/BA double degree is as follows.

In Years 1 to 3 students will complete 160 credit points of Bachelor of Information and Communications Technology units as listed in the course structure below.

In Years 1 to 4 they will complete the four BA core units, an eight unit BA major and a four unit BA sub-major from the majors and sub-majors in the Bachelor of Arts as listed

below. Students may need to travel between campuses to complete the Arts components of the course.

Bachelor of Arts Core Units

For details of the relevant BA core units, refer to the current listing of Bachelor of Arts, course code 1706.

Year 1

Autumn session

300580.3	Programming Fundamentals
100483.2	Principles of Professional Communication 1
300585.2	Systems Analysis and Design
300700.6	Statistical Decision Making

Spring session

300565.2	Computer Networking
300581.4	Programming Techniques
300104.4	Database Design and Development

BA core unit

Year 2

Autumn session

300582.5	Technologies for Web Applications
300144.5	Object Oriented Analysis
300095.5	Computer Networks and Internets

BA core unit

Spring session

300583.3	Web Systems Development
300958.2	Social Web Analytics

BA core unit

BA major unit

Year 3

Autumn session

300570.3	Human-Computer Interaction
300578.3	Professional Development
300698.4	Operating Systems Programming

BA core unit

Spring session

300579.6	Professional Experience
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BA major unit

BA major unit

BA sub-major unit

Year 4

Autumn session

BA major unit

BA major unit

BA sub-major unit

BA sub-major unit

Spring session

BA major unit

BA major unit

BA major unit

BA sub-major unit

Bachelor of Arts Majors

M1097.1	Anthropology
M1059.1	Arabic
M1060.1	Chinese
M1113.1	Creative Writing
M1069.1	Criminology and Criminal Justice
M1052.1	Cultural and Social Analysis
M2510.1	Economy and Markets
M1053.1	English
M1071.1	Geography and Urban Studies
M2513.1	Global Business
M1077.1	Heritage and Tourism
M1054.1	History and Political Thought
M1041.1	Indigenous Australian Studies
M1093.1	Indonesian
M2514.1	Innovation and Change
M1108.1	International English

Please note: M1108 International English has been replaced by M1129 International English for students who commence this course from the 2019 academic year. Continuing students enrolled in M1108 are able to remain in and successfully complete the unit requirements of this specialisation.

M1129.1	International English
M1055.1	International Relations and Asian Studies
M1056.1	Islamic Studies
M1062.1	Japanese
M1119.1	Linguistics
M1114.1	Musicology
M1115.1	Music Performance
M2512.1	Organisations and Work
M1083.1	Peace and Development Studies
M1058.1	Philosophy
M1073.1	Sociology

Bachelor of Arts Sub-majors

SM1077.1	Arabic
SM1078.1	Chinese
SM1116.1	Creative Writing
SM1070.1	Cultural and Social Analysis
SM1071.1	English
SM1072.1	History and Political Thought
SM1128.1	Immersion Language
SM1049.1	Indigenous Australian Studies
SM1112.1	Indonesian
SM1120.1	International English

Please note: SM1120 International English has been replaced by SM1132 International English for students who commence this course from the 2019 academic year. Continuing students enrolled in SM1120 are able to remain in and successfully complete the unit requirements of this specialisation.

SM1132.1	International English
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SM1073.1	International Relations and Asian Studies
SM1080.1	Japanese
SM1119.1	Linguistics
SM1065.1	Musicology
SM1047.1	Music Performance Studies
SM1076.1	Philosophy

Bachelor of Information and Communications Technology/Bachelor of Business

3737.2

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

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

This double degree targets the wide application of information technology in Business. It provides students with a strong technical background in IT and Business. It allows students to develop skills in application development, program design, systems analysis and design, networks, web development, and the implementation of technology. This degree combines information technology with one of eight Business Majors in:

Students may be required to travel between campuses for some learning experiences.

Study Mode

Four years full-time.

Location

Campus	Attendance	Mode
Bankstown Campus	Full Time	Internal
Campbelltown Campus	Full Time	Internal
Parramatta Campus - Victoria Road	Full Time	Internal

Accreditation

On completion of this Course graduates will be eligible for professional membership of the Australian Computer Society. The following Business Majors are accredited: Major MT2024 Human Resource Management is accredited with the Australian Human Resources Institute (AHRI); Major MT2021 Applied Finance satisfies the educational requirements for membership of the Financial Services Institute of Australasia (Finsia); Major MT2027 - Marketing satisfies the educational requirements for recognition as a Certified Practising Marketer and eligibility for membership of the Australian Marketing Institute (AMI).

Admission

Assumed knowledge: HSC Mathematics and any two units of HSC English.

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

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

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

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

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

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

Course Structure

Qualification for this award requires the successful completion of 320 credit points as per the recommended sequence below.

Students who complete this award will graduate with a Bachelor of Information and Communications Technology and a Bachelor of Business, with the major from the Bachelor of Business component of the course noted on their testamur.

Bachelor of Information and Communications Technology Component

Students must complete 160 credit points of prescribed Bachelor of Information and Communications Technology units.

Business Component

Core units (compulsory 40 credit points)

200909.2	Enterprise Law
200910.1	Financing Enterprises
200911.1	Enterprise Innovation and Markets
200912.1	Enterprise Leadership

Professional units (choose 40 credit points)

The professional units provide a focus on careers. Students are required to complete one unit from each of the four key focus areas: numeracy, career planning, innovation, and enterprise engagement, a total of 40 credit points. Students are advised to choose units that will support careers in one of three areas: Money (for majors in Applied Finance, Economics), Markets (for majors in Hospitality Management, International Business, Marketing, and Sport Management), Management (for majors in Human Resource Management, and Management).

The professional units that are recommended for each of the Bachelor of Business testamur majors are specified in the majors.

Bachelor of Business Majors - choose 80 credit points from one primary Business major. These are testamur majors.

Majors for Careers in Money

MT2021.1	Applied Finance
MT2022.1	Economics

Majors for Careers in Markets

MT2035.1	Hospitality Management
MT2025.1	International Business
MT2027.1	Marketing
MT2036.1	Sport Management

Majors for Careers in Management

MT2024.1	Human Resource Management
MT2026.1	Management

Recommended Sequence

Use the links to each Bachelor of Business Major to see the core, professional and major units required. Students should follow the recommended sequence below and not the recommended sequence listed under each Bachelor of Business Major.

This progression pattern is highly recommended. Students progress through both degrees at the same pace, completing two units in each degree in each semester. Graduation after three years with either degree will be possible only if a student makes this decision at or before the end of Year 2 and amends their progression pattern as prescribed by an Academic Course Advisor.

Year 1

Autumn session

300585.2	Systems Analysis and Design
300580.3	Programming Fundamentals

BBus core unit 1

BBus core unit 2

Spring session

300104.4	Database Design and Development
300581.4	Programming Techniques

BBus core unit 3

BBus core unit 4

Year 2

Autumn session

300144.5	Object Oriented Analysis
300582.5	Technologies for Web Applications

BBus professional unit 1

BBus major unit 1

Spring session

300583.3	Web Systems Development
300565.2	Computer Networking

BBus professional unit 2

BBus major unit 2

Year 3

Autumn session

300095.5	Computer Networks and Internets
300570.3	Human-Computer Interaction

BBus major unit 3

BBus major unit 4

Spring session

300958.2	Social Web Analytics
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BICT pool unit

BBus major unit 5

BBus major unit 6

Year 4

Autumn session

300578.3	Professional Development
300698.4	Operating Systems Programming

BBus professional unit 3

BBus major unit 7

Spring session

300579.6	Professional Experience
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BICT pool unit

BBus professional unit 4

BBus major unit 8

BICT Pool Units

300916.2	Astroinformatics
300111.2	Developing Web Applications with XML
301124.2	Ethical Hacking Principles and Practice
300960.4	Mobile Applications Development
300143.4	Network Security
300900.2	Professional Experience (Advanced)
300166.3	Systems and Network Management
300862.2	Video Games Development

Bachelor of Information and Communications Technology/Bachelor of Business (Accounting)

3738.2

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

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

This double degree program targets the wide application of information technology in Business and Commerce in Accounting. It provides students with a strong technical background in IT and Business and Commerce in Accounting. It allows students to develop skills in application development, program design, systems analysis & design, networks, web-design, and the implementation of technology. This degree combines information technology with knowledge required by professional Accountants.

Students may be required to travel between campuses for some learning experiences.

Study Mode

Four years full-time.

Location

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

Accreditation

The Bachelor of Information and Communications Technology is accredited with the Australian Computer Society (ACS) at Professional level. The Bachelor of Business (Accounting) is accredited with and satisfies the pre-admission educational requirements for membership of CPA Australia (CPA), Chartered Accountants Australia and New Zealand (CAANZ) and the Institute of Public Accountants (IPA). Completion of this degree will allow students to claim a number of exemptions from the Chartered Institute of Management Accountants (CIMA) in obtaining the CIMA Professional Qualification.

Admission

Assumed knowledge: HSC Mathematics and any two units of HSC English.

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

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

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

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

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

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

Course Structure

Qualification for this award requires the successful completion of 320 credit points as per the recommended sequence below.

Students who complete this award will graduate with a Bachelor of Information and Communications Technology and a Bachelor of Business, with a Major in Accounting noted on their testamur.

Business Component

Core units (compulsory 40 credit points)

200909.2	Enterprise Law
200912.1	Enterprise Leadership
200911.1	Enterprise Innovation and Markets
200910.1	Financing Enterprises

Professional units (choose 40 credit points)

The professional units provide a focus on careers. Students are required to complete one unit from each of the four key focus areas: numeracy and analytics, career planning, innovation, and enterprise engagement, a total of 40 credit points. The professional core units that are recommended for the Bachelor of Business (Accounting) major are specified in the major.

Bachelor of Business Accounting Major - choose 80 credit points from the Accounting major. This is a testamur major.

MT2030.1 Accounting

Accreditation units

Students should note that in order to achieve accreditation with the CPA Australia, Chartered Accountants Australia and New Zealand (CAANZ) and the Institute of Public Accountants (IPA) they will need to complete the following additional four units (40 credit points) over and above the 320 credit points of this course.

200108.2	Contemporary Management Accounting
200488.4	Corporate Financial Management
200183.4	Law of Business Organisations
200187.3	Taxation Law

Recommended Sequence

Use the link to the Bachelor of Business (BBus) Accounting Major to see the core, professional and major units required.

Students should follow the recommended sequence below and not the recommended sequence listed under the BBus Accounting Major.

Year 1

Autumn session

300585.2	Systems Analysis and Design
300580.3	Programming Fundamentals

BBus core unit 1

BBus core unit 2

Spring session

300104.4	Database Design and Development
300581.4	Programming Techniques

BBus core unit 3
BBus core unit 4

Year 2

Autumn session

300144.5 Object Oriented Analysis
300582.5 Technologies for Web Applications

BBus professional unit 1
BBus major unit 1

Spring session

300583.3 Web Systems Development
300565.2 Computer Networking

BBus professional unit 2
BBus major unit 2

Year 3

Autumn session

300095.5 Computer Networks and Internets
300570.3 Human-Computer Interaction

BBus major unit 3
BBus major unit 4

Spring session

300958.2 Social Web Analytics

BICT Pool Unit
BBus major unit 5
BBus major unit 6

Year 4

Autumn session

300578.3 Professional Development
300698.4 Operating Systems Programming

BBus professional unit 3
BBus major unit 7

Spring session

300579.6 Professional Experience

BICT pool Unit
BBus professional unit 4
BBus major unit 8

Bachelor of Information & Communications Technology Pool Units

300916.2 Astroinformatics
300111.2 Developing Web Applications with XML
301124.2 Ethical Hacking Principles and Practice
300960.4 Mobile Applications Development
300143.4 Network Security
300900.2 Professional Experience (Advanced)
300166.3 Systems and Network Management
300862.2 Video Games Development

Please note: The following Pool unit will not be offered after 2017

300957.2 Parallel and Distributed Computing

Bachelor of Information Systems

3687.2

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

Today, practising professionals need to not only have knowledge and skills in computing, they also need to understand the context in which computer technology is applied in society, and be able to work collaboratively with people in all sorts of professions and industries. The Bachelor Information Systems degree integrates closely the applications of computing and information systems in a global business environment. You will work with organisations to design, develop, deploy and manage information systems through the application of computing technology. This course will help you carry out a real-life project where you will need to demonstrate you can design and develop an information system that solves a community-based problem.

Study Mode

Three years full-time.

Location

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Full Time	Internal
Sydney City Campus	Full Time	Internal

Accreditation

The Bachelor of Information Systems is accredited with the Australian Computer Society (ACS) at Professional Level.

Admission

Assumed Knowledge: HSC Mathematics and any two units of HSC English.

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

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

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

International students applying to The University through the International Office can find details of minimum English

proficiency requirements and acceptable proof on their website.

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

Course Structure

Double Degrees are Available with Business and Law.

Qualification for the Bachelor of Information Systems requires the successful completion of 240 credit points which include the units listed in the recommended sequences below.

Sydney City Campus

Full-time - Start Year Intake - Parramatta Campus

Year 1

Autumn session

300580.3	Programming Fundamentals
100483.2	Principles of Professional Communication 1
300585.2	Systems Analysis and Design
300573.2	Information Systems in Context

Spring session

300565.2	Computer Networking
300104.4	Database Design and Development
200032.6	Statistics for Business

And one elective

Year 2

Autumn session

300582.5	Technologies for Web Applications
300570.3	Human-Computer Interaction

And two electives

Spring session

300569.2	Computer Security
300572.2	Information Systems Deployment and Management
300960.4	Mobile Applications Development

And one elective

Year 3

Autumn session

300578.3	Professional Development
300584.4	Emerging Trends in Information Systems

And two electives

Spring session

300579.6	Professional Experience
300961.3	Social Computing

And two electives

Full-time - Mid Year Intake

Year 1

Spring session

300565.2	Computer Networking
300104.4	Database Design and Development
300573.2	Information Systems in Context
200032.6	Statistics for Business

Autumn session

300580.3	Programming Fundamentals
100483.2	Principles of Professional Communication 1
300585.2	Systems Analysis and Design

And one elective

Year 2

Spring session

300569.2	Computer Security
300572.2	Information Systems Deployment and Management

And two electives

Autumn session

300582.5	Technologies for Web Applications
300570.3	Human-Computer Interaction

And two electives

Year 3

Spring session

300961.3	Social Computing
300960.4	Mobile Applications Development

And two electives

Autumn session

300579.6	Professional Experience
300578.3	Professional Development
300584.4	Emerging Trends in Information Systems

And one elective

Full-time - Accelerated Pathway

Start Year 2.5 Year Accelerated Pathway with Summer sessions

Year 1

Autumn session

300580.3	Programming Fundamentals
100483.2	Principles of Professional Communication 1
300585.2	Systems Analysis and Design

And one elective

Spring session

300565.2 Computer Networking
300573.2 Information Systems in Context

And two electives

Summer A session

300570.3 Human-Computer Interaction
300104.4 Database Design and Development

Year 2**Autumn session**

300582.5 Technologies for Web Applications
200032.6 Statistics for Business

And two electives

Spring session

300569.2 Computer Security
300572.2 Information Systems Deployment and Management
300960.4 Mobile Applications Development
300961.3 Social Computing

Summer A session

300578.3 Professional Development

And one elective

Year 3**Autumn session**

300584.4 Emerging Trends in Information Systems
300579.6 Professional Experience

And two electives

Full-time - Accelerated Pathway**Early Start 2.5 Year Accelerated Pathway with Summer sessions****Year 1****Summer A session**

200032.6 Statistics for Business
300104.4 Database Design and Development

Autumn session

300580.3 Programming Fundamentals
100483.2 Principles of Professional Communication 1
300585.2 Systems Analysis and Design
300573.2 Information Systems in Context

Spring session

300565.2 Computer Networking
300572.2 Information Systems Deployment and Management

And two electives

Year 2**Summer A session**

300570.3 Human-Computer Interaction

And one elective

Autumn session

300582.5 Technologies for Web Applications

And three electives

Spring session

300569.2 Computer Security
300960.4 Mobile Applications Development
300961.3 Social Computing

And one elective

Year 3**Summer A session**

300578.3 Professional Development

And one elective

Autumn session

300579.6 Professional Experience
300584.4 Emerging Trends in Information Systems

Suggested Majors and Sub-majors**Majors****Parramatta Campus**

M3054.1 Mathematics
M3068.1 Entertainment Computing
M3070.1 Networking
M3074.1 Mobile Computing
M3097.1 Health Informatics
M3098.1 Big Data
M3107.1 Interactive Analytics

Please note from 2018 M3070 Networking is replaced by M3109 Networking

M3109.1 Networking

Sydney City Campus

M3098.1 Big Data
M3074.1 Mobile Computing
M3070.1 Networking

Please note from 2018 M3070 Networking is replaced by M3109 Networking

M3109.1 Networking

Sub-majors**Parramatta Campus**

SM3001.1 Systems Administration

SM3025.1	Mathematics
SM3052.1	Entertainment Computing
SM3053.1	Social Media Analytics
SM3055.1	Networking
SM3056.1	Web Application Development (for Computing Students)
SM3057.1	Mobile Computing
SM3077.1	Systems Security
SM3089.1	Statistics
SM3090.1	Health Informatics
SM3101.1	Cloud Computing

Please note from 2018 SM3055 Networking is replaced by SM3095 Networking

SM3095.1	Networking
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Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Bachelor of Information Systems Advanced

3688.1

This course replaces 3685.1 Bachelor of Computing (Information Systems) Advanced from 2014

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course was 2014 or later.

This degree focuses on computing and information technology in the context of business. In addition to the generic content described for Bachelor of Information Systems, this course utilises advanced activities, extension projects, research training and hands on work on real business projects.

During this program you will have a mentor who will support and guide you throughout the degree. This program will also link you with experienced academic staff and industry partners who will provide you with continuous training and supervision. In addition you will be invited to join research groups which will allow you to take part in large research projects.

Study Mode

Three years full-time.

Location

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Full Time	Internal

Accreditation

The Bachelor of Information Systems Advanced is accredited with the Australian Computer Society (ACS) at Professional Level.

Admission

Assumed Knowledge: HSC Mathematics and any two units of HSC English

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

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

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

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

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

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

Course Structure

Students within the advanced degree are required to complete five advanced units.

Compulsory Advanced Units

- 300942.1 Emerging Trends in Information Systems (Advanced)
- 300900.1 Professional Experience (Advanced)

A further three units to be chosen from

- 300946.1 Computer Networking (Advanced)
- 300941.1 Database Design and Development (Advanced)
- 300901.1 Human-Computer Interaction (Advanced)
- 300903.1 Programming Techniques (Advanced)
- 300902.1 Web Systems Development (Advanced)

Advanced degrees are available with Business and Law.

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequences below.

Recommended Sequence**Full-time - Start Year Intake****Year 1****Autumn session**

- 300580.3** Programming Fundamentals
- 100483.2** Principles of Professional Communication 1
- 300585.2** Systems Analysis and Design
- 300573.2** Information Systems in Context

Spring session

- 200032.6** Statistics for Business

Choose one of

- 300565.2** Computer Networking
- 300946.1** Computer Networking (Advanced)

Choose one of

- 300104.4** Database Design and Development
- 300941.1** Database Design and Development (Advanced)

And one elective

Year 2**Autumn session**

- 300582.5** Technologies for Web Applications

Choose one of

- 300570.3** Human-Computer Interaction
- 300901.2** Human-Computer Interaction (Advanced)

And two electives

Spring session

- 300569.2** Computer Security
- 300572.2** Information Systems Deployment and Management
- 300960.4** Mobile Applications Development

And one elective

Year 3**Autumn session**

- 300578.3** Professional Development
- 300942.2** Emerging Trends in Information Systems (Advanced)

And two electives

Spring session

- 300900.2** Professional Experience (Advanced)
- 300961.3** Social Computing

And two electives

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

- 300573.2** Information Systems in Context
- 200032.6** Statistics for Business
- 300580.3** Programming Fundamentals

And one elective

Autumn session

- 100483.2** Principles of Professional Communication 1
- 300585.2** Systems Analysis and Design

And two electives

Year 2**Spring session**

- 300569.2** Computer Security
- 300572.2** Information Systems Deployment and Management

Choose one of

- 300104.4** Database Design and Development
- 300941.1** Database Design and Development (Advanced)

Choose one of

- 300565.2** Computer Networking
- 300946.1** Computer Networking (Advanced)

Autumn session

- 300582.5** Technologies for Web Applications

Choose one of

- 300570.3** Human-Computer Interaction
- 300901.2** Human-Computer Interaction (Advanced)

And two electives

Year 3**Spring session**

- 300961.3** Social Computing
- 300960.4** Mobile Applications Development

And two electives

Autumn session

- 300900.2** Professional Experience (Advanced)
- 300578.3** Professional Development
- 300942.2** Emerging Trends in Information Systems (Advanced)

And one elective

Majors

All majors and submajors available to course 3687 Bachelor of Information Systems are also available to those

enrolled in course 3688 Bachelor of Information Systems Advanced.

Majors

M3098.1	Big Data
M3068.1	Entertainment Computing
M3097.1	Health Informatics
M3107.1	Interactive Analytics
M3054.1	Mathematics
M3074.1	Mobile Computing
M3070.1	Networking

Please note from 2018 M3070 Networking is replaced by M3109 Networking

M3109.1	Networking
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Sub-majors

SM3101.1	Cloud Computing
SM3052.1	Entertainment Computing
SM3090.1	Health Informatics
SM3025.1	Mathematics
SM3057.1	Mobile Computing
SM3055.1	Networking
SM3053.1	Social Media Analytics
SM3089.1	Statistics
SM3001.1	Systems Administration
SM3077.1	Systems Security
SM3056.1	Web Application Development (for Computing Students)

Please note from 2018 SM3055 Networking is replaced by SM3095 Networking

SM3095.1	Networking
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Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Students in Advanced courses may use elective units toward obtaining an additional approved sub-major in Applied Leadership or Critical Thinking.

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Bachelor of Information Systems Advanced/Bachelor of Business

3745.2

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

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

The Bachelor of Information Systems Advanced/Bachelor of Business provides students with knowledge and understanding of two very closely related fields. The advantage of this degree is that it will help open doors to entrepreneurship, start-up companies and new innovations that will require business knowledge and cutting edge information systems and technology skills. Advanced students will also have industry mentors and will be members of The Academy. The business component of the double degree will allow students to gain knowledge in one of three core Business areas: Money, Markets or Management. The Money area encompasses majors in Applied Finance and Economics, while Markets centre on majors in Hospitality, Sport Management, International Business and Marketing. Finally the Management area includes majors in Human Resources and Management. Four business core units introduce students to fundamental aspects of law in a commercial context, management, the basics of financing and accounting needs of an organisation, and an introduction to markets and marketing. A number of professional core units compliment and build on previous knowledge and skills in the areas of numeracy, creativity, innovation, entrepreneurship, leadership and further enhance student's employability by offering internship or client-based problem solving units. A choice from eight business majors will add to the in-depth knowledge and equip students with the skills to pursue a career in a chosen area of interest. Students' knowledge is augmented with study in the Information Systems domain including, but not limited to, system analysis and design, information systems, programming, database design and development, networking, system deployment and management, web and mobile development and social computing. In pursuing this combination of study, students will learn how to assume corporate roles in global enterprises as well as gain skills needed to start a business. This double degree will equip students with the tools to become future entrepreneurs, to innovate, engage in new business developments, implement new business models and propose technology enhanced start-ups.

Study Mode

Four years full-time or eight years part-time.

Location

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

Accreditation

Bachelor of Information Systems Advanced is accredited by the Australian Computing Society at the Professional level. For the Business component: Major MT2024 Human Resource Management is accredited with the Australian Human Resources Institute (AHRI). Major MT2021 Applied Finance satisfies the educational requirements for membership of the Financial Services Institute of Australasia (Finsia). MT2027 - Marketing satisfies the educational requirements for recognition as a Certified Practising Marketer and eligibility for membership of the Australian Marketing Institute (AMI).

Admission

Bachelor of Information Systems Advanced

ATAR 90+, Assumed Knowledge: HSC Mathematics and any two units of HSC English

Bachelor of Business

Eligibility for admission to the Bachelor of Business is based on the following minimum requirements:

Year 12 HSC (or equivalent); or completed Diploma of Business Western Sydney University The College; or completed relevant VET award.

Assumed knowledge, Mathematics and any two units of English. Students unable to demonstrate sufficient levels of achievement in mathematics will be required to use the elective unit to increase their mathematical aptitude. This will not lengthen the period of study.

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

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

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

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

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

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

Course Structure

Qualification for this award requires the successful completion of 320 credit points which include the units listed in the recommended sequence below.

Students who complete this award will graduate with a Bachelor of Information Systems Advanced and a Bachelor of Business, with the major from the Bachelor of Business component of the course noted on their testamur.

Bachelor of Information Systems Advanced requirements

Students must complete 160 credit points of prescribed Bachelor of Information Systems Advanced units.

Bachelor of Business Requirements

Students must complete 160 credit points of Bachelor of Business (BBus) units and are required to select and complete a major.

Students are required to complete

- Core units (40 credit points)
- Professional units (40 credit points)
- Major units (80 credit points from one primary Business major)

Core Units

200909.2	Enterprise Law
200910.1	Financing Enterprises
200911.1	Enterprise Innovation and Markets
200912.1	Enterprise Leadership

Professional Units

The professional units provide a focus on careers. Students are required to complete one unit from each of the four key focus areas: numeracy, career planning, innovation, and enterprise engagement, a total of 40 credit points. Students are advised to choose units that will support careers in one of three areas: Money (for majors in Accounting, Applied Finance, Economics and Property), Markets (for majors in Hospitality Management, International Business, Marketing and Sport Management), Management (for majors in Human Resource Management and Management).

See the handbook entries for each major for information on the professional units that are recommended.

Bachelor of Business Majors

Students are required to complete eight major core units from one of the following primary Business majors.

Majors for Careers in Money

MT2021.1	Applied Finance
MT2022.1	Economics

Majors for Careers in Markets

MT2035.1	Hospitality Management
MT2025.1	International Business
MT2027.1	Marketing
MT2036.1	Sport Management

Majors for Careers in Management

MT2024.1	Human Resource Management
MT2026.1	Management

Recommended Sequence Full-time

Use the links above to see the core, professional and major units required for each Bachelor of Business major.

Students should follow the recommended sequence below and not the sequence listed under each major.

Year 1

Autumn session

300580.3	Programming Fundamentals
100483.2	Principles of Professional Communication 1

BBus core unit 1

BBus core unit 2

Spring session

200032.6 Statistics for Business
300946.1 Computer Networking (Advanced)

BBus core unit 3

BBus core unit 4

Note: Unit 200032 is also the BBus Professional unit 1

Year 2**Autumn session**

300585.2 Systems Analysis and Design
300573.2 Information Systems in Context

BBus major unit 1

Elective unit

Spring session

300941.1 Database Design and Development
(Advanced)
300569.2 Computer Security

BBus major unit 2

BBus professional unit 2

Year 3**Autumn session**

300582.5 Technologies for Web Applications
300901.2 Human-Computer Interaction (Advanced)

BBus major unit 3

BBus major unit 4

Spring session

300572.2 Information Systems Deployment and
Management
300960.4 Mobile Applications Development

BBus major unit 5

BBus major unit 6

Year 4**Autumn session**

300578.3 Professional Development
300942.2 Emerging Trends in Information Systems
(Advanced)

BBus major unit 7

BBus professional unit 3

Spring session

300900.2 Professional Experience (Advanced)
300961.3 Social Computing

BBus major unit 8

BBus professional unit 4

Recommended Sequence Part-time

Use the links above to see the core, professional and major units required for each Bachelor of Business major.

Students should follow the recommended sequence below and not the sequence listed under each major.

Year 1**Autumn session**

300580.3 Programming Fundamentals

BBus core unit 1

Spring session

300573.2 Information Systems in Context

BBus core unit 2

Year 2**Autumn session**

100483.2 Principles of Professional Communication 1

BBus core unit 3

Spring session

300941.1 Database Design and Development
(Advanced)

BBus core unit 4

Year 3**Autumn session**

200032.6 Statistics for Business

Elective unit

Note: Unit 200032 is also the BBus Professional unit 1

Spring session

300946.1 Computer Networking (Advanced)

BBus major unit 1

Year 4**Autumn session**

300585.2 Systems Analysis and Design

BBus Professional unit 2

Spring session

300569.2 Computer Security

BBus major unit 2

Year 5**Autumn session**

300901.2 Human-Computer Interaction (Advanced)

BBus major unit 3

Spring session

300572.2 Information Systems Deployment and
Management

BBus major unit 4

Year 6**Autumn session****300582.5** Technologies for Web Applications

BBus major unit 5

Spring session**300960.4** Mobile Applications Development

BBus major unit 6

Year 7**Autumn session****300942.2** Emerging Trends in Information Systems
(Advanced)

BBus major unit 7

Spring session**300961.3** Social Computing

BBus professional unit 3

Year 8**Autumn session****300578.3** Professional Development

BBus major unit 8

Spring session**300900.2** Professional Experience (Advanced)

BBus professional unit 4

**Bachelor of Information Systems/
Bachelor of Business****3744.2**

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

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

The Bachelor of Information Systems/Bachelor of Business provides students with knowledge and understanding of two very closely related fields. The advantage of this degree is that it will help open doors to entrepreneurship, start-up companies and new innovations that will require business knowledge and cutting edge information systems and technology skills. The business component of the double degree will allow students to gain knowledge in one of three core Business areas: Money, Markets or Management. The Money area encompasses majors in

Applied Finance and Economics, while Markets centre on majors in Hospitality, Sport Management, International Business and Marketing. Finally the Management area includes majors in Human Resources and Management. Four business core units introduce students to fundamental aspects of law in a commercial context, management, the basics of financing and accounting needs of an organisation, and an introduction to markets and marketing. A number of professional core units compliment and build on previous knowledge and skills in the areas of numeracy, creativity, innovation, entrepreneurship, leadership and further enhance student's employability by offering internship or client-based problem solving units. A choice from eight business majors will add to the in-depth knowledge and equip students with the skills to pursue a career in a chosen area of interest. Students' knowledge is augmented with study in the Information Systems domain including, but not limited to, system analysis and design, information systems, programming, database design and development, networking, system deployment and management, web and mobile development and social computing. In pursuing this combination of study, students will learn how to assume corporate roles in global enterprises as well as gain skills needed to start a business. This double degree will equip students with the tools to become future entrepreneurs, to innovate, engage in new business developments, implement new business models and propose technology enhanced start-ups.

Study Mode

Four years full-time or eight years part-time.

Location

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

Accreditation

Bachelor of Information Systems is accredited by the Australian Computing Society at the Professional level. For the Business component: Major MT2024 Human Resource Management is accredited with the Australian Human Resources Institute (AHRI). Major MT2021 Applied Finance satisfies the educational requirements for membership of the Financial Services Institute of Australasia (Finsia). Major MT2027 - Marketing satisfies the educational requirements for recognition as a Certified Practising Marketer and eligibility for membership of the Australian Marketing Institute (AMI).

Admission**Bachelor of Information Systems**

Year 12 HSC (or equivalent); or completed Diploma of Information Technology Western Sydney University The College; or completed relevant VET award.

Bachelor of Business

Eligibility for admission to the Bachelor of Business is based on the following minimum requirements: Year 12 HSC (or equivalent); or completed Diploma of Business

Western Sydney University The College; or completed relevant VET award.

Assumed Knowledge: Mathematics and any two units of English. Students unable to demonstrate sufficient levels of achievement in mathematics will be required to use the elective unit to increase their mathematical aptitude. This will not lengthen the period of study.

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

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

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

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

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

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

Course Structure

Qualification for this award requires the successful completion of 320 credit points which include the units listed in the recommended sequence below.

Students who complete this award will graduate with a Bachelor of Information Systems and a Bachelor of Business, with the Major from the Bachelor of Business component of the course noted on their testamur.

Bachelor of Information Systems Requirements

Students must complete 160 credit points of prescribed Bachelor of Information Systems units.

Bachelor of Business Requirements

Students must complete 160 credit points of Bachelor of Business (BBus) units and are required to select and complete a major.

Students are required to complete

- Core units (40 credit points)
- Professional units (40 credit points)
- Major units (80 credit point from one primary Business major)

Core Units

The four compulsory core units that provide students with essential business knowledge are:

200909.2	Enterprise Law
200910.1	Financing Enterprises
200911.1	Enterprise Innovation and Markets
200912.1	Enterprise Leadership

Professional Units

The professional units provide a focus on careers. Students are required to complete one unit from each of the four key focus areas: numeracy, career planning, innovation, and enterprise engagement, a total of 40 credit points. Students are advised to choose units that will support careers in one of three areas: Money (for majors in Accounting, Applied Finance, Economics and Property), Markets (for majors in Hospitality Management, International Business, Marketing and Sport Management), Management (for majors in Human Resource Management and Management). See the handbook entries for each major for information on the professional units that are recommended.

Bachelor of Business Majors

Students are required to complete eight major core units from one of the following primary Business majors.

Majors for Careers in Money

MT2021.1	Applied Finance
MT2022.1	Economics

Majors for Careers in Markets

MT2035.1	Hospitality Management
MT2025.1	International Business
MT2027.1	Marketing
MT2036.1	Sport Management

Majors for Careers in Management

MT2024.1	Human Resource Management
MT2026.1	Management

Recommended Sequence Full-time

Use the links above to see the core, professional and major units required for each Bachelor of Business major. Students should follow the recommended sequence below and not the sequence listed under each major.

Year 1

Autumn session

300580.3	Programming Fundamentals
100483.2	Principles of Professional Communication 1

BBus core unit 1

BBus core unit 2

Spring session

200032.6	Statistics for Business
300565.2	Computer Networking

BBus core unit 3

BBus core unit 4

Note: Unit 200032 is also the BBus professional unit 1

Year 2

Autumn session

300585.2 Systems Analysis and Design
300573.2 Information Systems in Context

BBus major unit 1

Elective unit

Spring session

300104.4 Database Design and Development
300569.2 Computer Security

BBus major unit 2

BBus professional unit 2

Year 3

Autumn session

300582.5 Technologies for Web Applications
300570.3 Human-Computer Interaction

BBus major unit 3

BBus major unit 4

Spring session

300572.2 Information Systems Deployment and Management
300960.4 Mobile Applications Development

BBus major unit 5

BBus major unit 6

Year 4

Autumn session

300578.3 Professional Development
300584.4 Emerging Trends in Information Systems

BBus major unit 7

BBus professional unit 3

Spring session

300579.6 Professional Experience
300961.3 Social Computing

BBus major unit 8

BBus professional unit 4

Recommended Sequence Part-time

Use the links above to see the core, professional and major units required for each Bachelor of Business major.

Students should follow the recommended sequence below and not the sequence listed under major.

Year 1

Autumn session

300580.3 Programming Fundamentals

BBus core unit 1

Spring session

300573.2 Information Systems in Context

BBus core unit 2

Year 2

Autumn session

100483.2 Principles of Professional Communication 1

BBus core unit 3

Spring session

300104.4 Database Design and Development

BBus core unit 4

Year 3

Autumn session

200032.6 Statistics for Business

Elective unit

Note: Unit 200032 is also the BBus Professional unit 1

Spring session

300565.2 Computer Networking

BBus major unit 1

Year 4

Autumn session

300585.2 Systems Analysis and Design

BBus professional unit 2

Spring session

300569.2 Computer Security

BBus Major unit 2

Year 5

Autumn session

300570.3 Human-Computer Interaction

BBus major unit 3

Spring session

300572.2 Information Systems Deployment and Management

BBus major unit 4

Year 6

Autumn session

300582.5 Technologies for Web Applications

BBus major unit 5

Spring session**300960.4** Mobile Applications Development

BBus major unit 6

Year 7**Autumn session****300584.4** Emerging Trends in Information Systems

BBus major unit 7

Spring session**300961.3** Social Computing

BBus professional unit 3

Year 8**Autumn session****300578.3** Professional Development

BBus major unit 8

Spring session**300579.6** Professional Experience

BBus professional unit 4

Associate Degree in Engineering**7022.3**

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is Q3 2015 or later.

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

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

The Associate Degree in Engineering is a two year program (full-time) in Engineering designed for people who have workplace experience and wish to upgrade their qualifications in Engineering and possibly continue to the full Bachelor degree program.

The Associate Degree in Engineering has a common first year program for all engineering disciplines, exposing students to a wide range of experiences in the first year. In the second year students may choose from the key programs in Civil, Electrical, Mechanical or Robotics & Mechatronics. If students choose to apply to study in the Bachelor of Engineering or from 2016, the Bachelor of Engineering (Honours) after graduating from the Associate Degree in Engineering they may be given advanced standing in up to 12 units.

For more information on Western Sydney University, The College, please refer to their web site.

Study Mode

Two years full-time or four years part-time. Students will be required to attend the Kingswood campus for some learning experiences.

Location**Campus Attendance Mode**

Online Part Time Multi Modal

Admission

Applicants may be regarded as eligible for admission if they have completed the NSW HSC and attained the required ATAR (Australian Tertiary Admission Rank), or have completed other equivalent qualifications such as a recognised Certificate III or Certificate IV and vocational experience and attained the required entrance standard set for entry to the course. This may include bridging/preparatory courses, para-professional and other post-secondary qualifications.

Admission to the Associate Degree in Engineering also requires an applicant to have a minimum of three years industry experience or be a member in a suitable traineeship program.

Course Structure

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

Recommended Sequence**Core Units**

700104.2	Electrical Fundamentals (WSTC AssocD)
700106.2	Engineering Computing (WSTC AssocD)
700109.2	Engineering Management for Engineer Associates (WSTC AssocD)
700147.2	Engineering Materials (WSTC AssocD)
700153.2	Engineering Physics (WSTC AssocD)
700112.2	Fundamentals for Engineering Studies (WSTC AssocD)
700113.2	Fundamentals of Mechanics (WSTC AssocD)
700114.2	Introduction to Engineering Business Management (WSTC AssocD)
700149.2	Introduction to Engineering Practice (WSTC AssocD)
700101.2	Mathematics for Engineers 1 (WSTC AssocD)
700103.2	Mathematics for Engineers Preliminary (WSTC AssocD)

One alternate unit from the selected Key Program below

700118.2 Professional Practice for Engineer Associates (WSTC AssocD)

One alternate unit from the selected Key Program below

700110.2 Engineering Project (WSTC AssocD)

One alternate unit from the selected Key Program below

Students must also select one of the following key programs and successfully complete three alternate units from the one key program.

KT7000.1 Civil

KT7001.1	Electrical
KT7002.1	Mechanical
KT7003.1	Robotics and Mechatronics

Diploma in Building Design Management/ Bachelor of Building Design Management

6031.1

This course develops the skills necessary for a role in the integrated design and delivery of building projects. Students develop skills in building design along with an understanding of 'buildability' issues, accurate cost forecasting, risk management and sustainable project delivery. The ability to work as a part of a multi-disciplinary project team and to negotiate favourable outcomes in complex project environments is fostered through simulations of real-life building projects. Students will acquire a comprehensive overview of construction project delivery. All aspects of building design are included: commencing with an initial design concept; extending to design brief formation; project documentation; quality control management during the building process; and finally leading to project handover. Students will be required to undertake approved practical experience during the course. This experience will support and complement their formal study.

The first year of this course is delivered by Western Sydney University The College as an agent of Western Sydney University via extended face-to-face hours in smaller learning environments.

A Diploma in Building Design Management exit point is also available at the end of the first year of the course.

For more information on Western Sydney University, The College, please refer to their web site.

For course advice during your first year of study, please use the contact below under 'Course Advice'. For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Bachelor of Building Design Management.

Study Mode

Four years full-time or eight years part-time.

Location

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal
Penrith Campus	Full Time	Internal
Penrith Campus	Part Time	Internal
The College - Nirimba Education Precinct	Full Time	Internal
The College - Nirimba Education Precinct	Part Time	Internal

Admission

For more information on applying please see link to The College admission pages below.

Domestic students are required to have:

- Completed an English unit in the NSW Higher School Certificate, Or
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher.

Met other entry requirements such as:

- An ATAR identified prior to the offer of a place, Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

International students must satisfy one of the following language requirements:

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed the College EAP 4 course with a 50% pass Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher for which advanced standing can be applied for.

Academic Entry Requirements vary according to country of origin. However, in general

- Completion of Year 12 or its equivalent is the minimum entry requirement OR
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

Course Structure

Qualification for this award requires the successful completion of 340 credit points which include the units listed in the recommended sequence below.

Western Sydney University The College Units

Nirimba Campus

Year 1

Preparatory Units

700056.3	Academic English (WSTC Prep)
700201.3	Computer Studies (WSTC Prep)
700167.2	Tertiary Study Skills in Construction Management (WSTC Prep)

Students must pass the following University level units

700005.6	Accounting Information for Managers (WSTC)
700070.2	Building 1 (WSTC)
700071.2	Building 2 (WSTC)
700256.1	Construction Work Safety (WSTC)
700254.1	Enterprise Law (WSTC)
700255.1	Environmental Building Design (WSTC)
700150.2	Graphic Communication and Design (WSTC)
700154.2	Professional Competencies (WSTC)

Students may exit at this point and graduate with the Diploma in Building Design Management following a passing grade in all of the above units. Students who

progress onto Year Two may also be awarded the Diploma if they gain a passing grade in all of the above units.

- Students must pass all College Preparatory units before progressing to the Year Two units.
- Students must pass at least 70 credit points of University level units in Year One before progressing to the Year Two units.

Western Sydney University Units

For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Building Design Management.

Parramatta (Victoria Road) and Penrith Campus

Year 2

Autumn session

- 300720.2** Construction Technology 1 (Civil)
200486.3 Quantity Surveying 1

From Autumn 2019, students are advised to select the following equivalent unit, 301208 Building Measurement, which will replace 200486 Quantity Surveying 1.

- 301208.1** Building Measurement
300723.2 Development Control

And one elective

Spring session

- 300721.4** Construction Technology 2 (Substructure)
200468.2 Estimating 1

From Spring 2019, students are advised to select the following equivalent unit, 301207 Building Estimates and Tendering, which will replace 200468 Estimating 1.

- 301207.1** Building Estimates and Tendering
301085.1 Built Heritage

And one elective

Year 3

Autumn session

- 200502.4** Construction Technology 3 (Concrete Construction)
300727.2 Project Management
301086.2 Design Brief Formulation

And one elective

Spring session

- 200470.4** Construction Technology 4 (Steel Construction)
300886.1 Construction in Practice 1
301087.1 Building Design Process

And one elective

Year 4

Autumn session

- 200471.4** Construction Technology 5 (Envelope)
200504.3 Construction Economics
301099.1 Building Design Project 1

Spring session

- 300725.3** Construction Technology 6 (Services)
200484.5 Construction in Practice 3
301100.1 Building Design Project 2

Industry Experience

All students enrolled in Diploma in Building Design Management/Bachelor of Building Design Management must obtain, through their own initiative, 1200 hours of industry related employment prior to graduation.

To facilitate the recording of such experience it will be necessary to enrol in 300724 Industry Based Learning and have an Industry Experience Diary signed off by the Academic Course Advisor.

- 300724.2** Industry Based Learning

Optional Electives

- 301158.1** Modern Construction Enterprises
301159.1 Modern Construction Projects

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

- 301089.1** Special Technical Project

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Diploma in Construction Management/ Bachelor of Construction Technology

6032.1

For more information on applying please see link to The College admission pages below.

This course provides the skills and abilities necessary to perform competently at a professional level in the residential construction industry, in one or more of the following roles: Site Manager, Building Supervisor, Estimator and Building Surveyor. Students will develop specialised skills in construction management. The Construction Technology program is widely recognised for delivering the full suite of theoretical, practical, and hands-on experience in the area of residential construction. Students will study four concentrated areas related to the

delivery of residential construction projects. These are construction technology; construction economics; construction law; and construction resource management. There may be a number of opportunities during the course to obtain a cadetship in the building industry in areas including project home building, building surveying and residential development. The three year Bachelor of Construction Technology program may be used as a pathway to the four year Bachelor of Construction Management program which meets the Australian Institute of Building (AIB) professional accreditation requirements.

The first year of this course is delivered by Western Sydney University The College as an agent of Western Sydney University via extended face-to-face hours in smaller learning environments.

A Diploma in Construction Management exit point is also available at the end of the first year of the course.

For more information on Western Sydney University, The College, please refer to their web site.

For course advice during your first year of study, please use the contact below under 'Course Advice'. For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Construction Technology.

Study Mode

Three years full-time or six years part-time.

Location

Campus	Attendance	Mode
Penrith Campus	Full Time	Internal
Penrith Campus	Part Time	Internal
The College - Nirimba Education Precinct	Full Time	Internal
The College - Nirimba Education Precinct	Part Time	Internal

Admission

For more information on applying please see link to The College admission pages below.

Domestic students are required to have:

- Completed an English unit in the NSW Higher School Certificate, Or
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher.

Students are also assumed to have background in Mathematics at a senior high school level and assumed background in Science knowledge, preferably in Physics.

Met other entry requirements such as:

- An ATAR identified prior to the offer of a place, Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

International students must satisfy one of the following language requirements:

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed the College EAP 4 course with a 50% pass Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher for which advanced standing can be applied for.

Academic Entry Requirements vary according to country of origin. However, in general

- Completion of Year 12 or its equivalent is the minimum entry requirement Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

Course Structure

Qualification for this award requires the successful completion of 260 credit points which include the units listed in the recommended sequence below.

Western Sydney University The College Units

Nirimba and Penrith Campus

Please note that all campuses may not have intakes each year.

Year 1

Preparatory units

700056.3	Academic English (WSTC Prep)
700264.1	Scientific Methods for Construction Management (WSTC Prep)
700167.2	Tertiary Study Skills in Construction Management (WSTC Prep)

Students must pass the following University level units

700005.6	Accounting Information for Managers (WSTC)
700070.2	Building 1 (WSTC)
700071.2	Building 2 (WSTC)
700254.1	Enterprise Law (WSTC)
700252.1	Enterprise Leadership (WSTC)
700150.2	Graphic Communication and Design (WSTC)
700154.2	Professional Competencies (WSTC)

For 2017 choose

700126.3	Design Science (WSTC)
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From 2018 choose

700256.1	Construction Work Safety (WSTC)
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Students may exit at this point and graduate with the Diploma in Construction Management following a passing grade in all of the above units. Students who progress onto Year Two may also be awarded the Diploma if they gain a passing grade in all of the above units.

- Students must pass all College Preparatory units before progressing to the Year Two units.

- Students must pass at least 70 credit points of University level units in Year One before progressing to the Year Two units.

Western Sydney University Units

For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Construction Technology.

Penrith Campus

Year 2

Autumn session

- 300720.2** Construction Technology 1 (Civil)
200486.3 Quantity Surveying 1

From Autumn 2019, students are advised to select the following equivalent unit, 301208 Building Measurement, which will replace 200486 Quantity Surveying 1.

- 301208.1** Building Measurement
200472.4 Material Science in Construction
300723.2 Development Control

Spring session

- 300721.4** Construction Technology 2 (Substructure)
200468.2 Estimating 1

From Spring 2019, students are advised to select the following equivalent unit, 301207 Building Estimates and Tendering, which will replace 200468 Estimating 1.

- 301207.1** Building Estimates and Tendering
300885.1 Building Regulations Studies

And elective 1

Year 3

Autumn session

- 301105.1** Negotiation in the Built Environment
300727.2 Project Management
300728.3 Construction Planning

And elective 2

Spring session

- 300886.1** Construction in Practice 1
300053.4 Professional Practice
200292.2 Building Law

And elective 3

Please note

Students may choose electives from any of The University's courses, including the following units

Elective 1 Recommendation

Choose one of

- 200503.2** Construction Information Systems
301062.1 Environmental Building Design

Elective 2 Recommendation

Choose one of

- 200502.4** Construction Technology 3 (Concrete Construction)
300748.2 Quality and Value Management

Elective 3 Recommendation

Choose one of

- 200470.4** Construction Technology 4 (Steel Construction)
200487.3 Quantity Surveying 2

Diploma in Engineering/Bachelor of Engineering Studies

6033.1

Students have the opportunity to focus on a discipline area by selecting a key program in Civil, Construction, Electrical, Mechanical and Robotic & Mechatronic engineering. The program has been developed with the view of enabling graduates to practice as an engineering technologist in their chosen field. The three year Bachelor of Engineering Science program may be used as a pathway to the four year Bachelor of Engineering program that meet Engineers Australia professional accreditation requirements; an academic performance criteria will be the eligibility criteria for such transfer.

The first year of this course is delivered by Western Sydney University The College as an agent of Western Sydney University via extended face-to-face hours in smaller learning environments.

A Diploma in Engineering exit point is also available at the end of the first year of the course.

For more information on Western Sydney University, The College, please refer to their web site.

For course advice during your first year of study, please use the contact below under 'Course Advice'. For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Engineering Science.

Study Mode

Three years full-time or six years part-time.

Location

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

Admission

For more information on applying please see link to The College admission pages below.

Domestic students are required to have:

- Completed an English unit in the NSW Higher School Certificate, Or
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher.

Students are also assumed to have completed some study in Mathematics and Science at a senior high school level or equivalent.

Met other entry requirements such as:

- An ATAR identified prior to the offer of a place, Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

International students must satisfy one of the following language requirements:

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed the College EAP 4 course with a 50% pass Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher for which advanced standing can be applied for.

Academic Entry Requirements vary according to country of origin. However, in general:

- Completion of Year 12 or its equivalent is the minimum entry requirement Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

Course Structure

Qualification for this award requires the successful completion of 260 credit points which include the units listed in the recommended sequence below.

Western Sydney University The College Units

Parramatta City (George Street) and Penrith Campus

Please note that all campuses may not have intakes each year.

Year 1

Preparatory units:

- 700145.3** Foundation Physics 2 (WSTC Prep)
- 700146.4** Mathematics 2 (WSTC Prep)
- 700169.2** Tertiary Study Skills in Engineering (WSTC Prep)

Students must pass the following University level units

- 700024.3** Electrical Fundamentals (WSTC)
- 700018.2** Engineering Computing (WSTC)
- 700152.3** Engineering Materials (WSTC)
- 700151.3** Engineering Physics (WSTC)
- 700023.3** Fundamentals of Mechanics (WSTC)
- 700148.2** Introduction to Engineering Practice (WSTC)
- 700019.7** Mathematics for Engineers 1 (WSTC)

700100.4 Mathematics for Engineers Preliminary (WSTC)

Students may exit at this point and graduate with the Diploma in Engineering following a passing grade in all of the above units. Students who progress onto Year Two may also be awarded the Diploma if they gain a passing grade in all of the above units.

- Students must pass all College Preparatory units before progressing to the Year Two units.
- Students must pass at least 70 credit points of University level units in Year One before progressing to the Year Two units.

Western Sydney University Units

For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Engineering Science.

Parramatta (Victoria Road) and Penrith Campus

Year 2 - Year 3

Students must choose one of the following five key programs when commencing their second year at Western Sydney University.

KT3154.1	Civil
KT3155.1	Construction
KT3156.1	Electrical
KT3157.1	Mechanical
KT3158.1	Robotics and Mechatronics

Diploma/Bachelor of Information and Communications Technology

6039.1

The Bachelor of Information and Communications Technology is a three year course accredited by the Australian Computer Society. It provides graduates with skills and knowledge in networking and IT applications development, along with the ability to apply practical ICT solutions in real-world situations. Units available offer a solid foundation across several domains including Networking, Databases, Systems Analysis & Design, Programming, Web and Mobile Technologies, Project Management, Professional Communications, Operating Systems and Human Computer Interaction. It also covers the necessary mathematical and statistical skills as needed by an ICT practitioner. The structure of the course provides scope for electives, sub-majors or majors in further studies including the areas of Mobile Computing and Application Development, Entertainment Computing, Astroinformatics, Health Informatics, Social Media Analytics, Networking, Health Information Management, Mathematics, Statistics, Systems Security and IT Support. NB: Majors/ sub-majors may not be offered on all campuses.

The first year of this course is delivered by Western Sydney University The College as an agent of Western Sydney University via extended face-to-face hours in smaller learning environments.

A Diploma in Information and Communications Technology exit point is also available at the end of the first year of the course.

For more information on Western Sydney University, The College, please refer to their web site.

For course advice during your first year of study, please use the contact below under 'Course Advice'. For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Information and Communications Technology.

Study Mode

Three years full-time. Students will be required to attend the Kingswood or Parramatta South campus for some learning experiences.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta City Campus-George Street	Full Time	Internal
Penrith Campus	Full Time	Internal
The College - Nirimba Education Precinct	Full Time	Internal

Admission

For more information on applying please see link to The College admission pages below

Domestic Students

Domestic students are required to have

- Completed an English unit in the NSW Higher School Certificate, Or
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher.

Students are also assumed to have completed a Mathematics subject, equivalent to the Mathematics subject in the NSW Higher School Certificate.

Met other entry requirements such as

- An ATAR identified prior to the offer of a place, Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

International Students

International students must satisfy one of the following language requirements

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed the College EAP 4 course with a 50% pass Or
- Passed The College English test at IELTS 6.0 equivalent Or

- Passed The College Foundation Studies Academic English unit at C grade level or higher for which advanced standing can be applied for.

Academic Entry Requirements vary according to country of origin. However, in general

- Completion of Year 12 or its equivalent is the minimum entry requirement Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

Course Structure

Qualification for this award requires the successful completion of 260 credit points which include the units listed in the recommended sequence below.

Western Sydney University The College Units

Nirimba and Parramatta City (George Street) Campus

Term 1 of study

700171.2	Tertiary Study Skills in Information and Communications Technology (WSTC Prep)
700047.3	Programming Design (WSTC Prep)
700146.4	Mathematics 2 (WSTC Prep)
700040.3	Principles of Professional Communication 1 (WSTC)
700000.5	Information Systems in Context (WSTC)

Term 2 of study

700013.3	Systems Analysis and Design (WSTC)
700045.3	Statistics for Academic Purposes (WSTC Prep)
700008.4	Programming Fundamentals (WSTC)
700011.4	Database Design and Development (WSTC)

Term 3 of study

700039.3	Object Oriented Analysis (WSTC)
700012.3	Computer Networking (WSTC)
700041.6	Statistical Decision Making (WSTC)

Students may exit at this point and graduate with the Diploma in ICT following a passing grade in all of the above units. Students who progress onto Year Two may also be awarded the Diploma if they gain a passing grade in all of the above units.

- Students must pass all College Preparatory units before progressing to the Year Two units.
- Students must pass at least 70 credit points of University level units in Year One before progressing to the Year Two units.

Western Sydney University Units

For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Information and Communications Technology.

Campbelltown, Parramatta (Victoria Road) and Penrith Campus**Year 2****Autumn session**

300582.5	Technologies for Web Applications
300095.5	Computer Networks and Internets
300570.3	Human-Computer Interaction

And one elective

Spring session

300581.4	Programming Techniques
300583.3	Web Systems Development
300958.2	Social Web Analytics

And one elective

Year 3

300578.3	Professional Development
300698.4	Operating Systems Programming

And two electives

Spring session

300579.6	Professional Experience
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And three electives

Electives for Majors and Sub-majors

Please note: majors and sub-majors are optional.

Majors**Campbelltown, Parramatta and Penrith Campuses**

M3102.1	Cyber Security
M3068.1	Entertainment Computing
M3097.1	Health Informatics
M3054.1	Mathematics
M3074.1	Mobile Computing
M3109.1	Networking

From Autumn 2019, M3102 Cyber Security will be replaced by M3116 Cyber Security

M3116.1	Cyber Security
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Sub-majors**Campbelltown, Parramatta and Penrith Campuses**

SM3080.1	Astroinformatics
SM3101.1	Cloud Computing
SM3052.1	Entertainment Computing
SM3090.1	Health Informatics
SM3054.1	IT Support
SM3025.1	Mathematics
SM3057.1	Mobile Computing
SM3095.1	Networking
SM3053.1	Social Media Analytics
SM3089.1	Statistics
SM3077.1	Systems Security

SM3056.1

Web Application Development (for Computing Students)

Diploma/Bachelor of Information and Communications Technology (Health Information Management)**6038.1**

The increasing use of electronic health records requires the accurate and efficient capture, maintenance, security and reporting of health information and the Bachelor of Information Communications Technology (Health Information Management) course will provide students with the knowledge and skills required to build software systems and undertake roles relating to the classification, coding and management of health information within a healthcare setting.

This course will offer students the opportunity to seek employment in health information management and/or clinical coding, recognised as workforce skills shortage areas. Specific content areas addressed include Health Informatics, Systems Analysis and Design, Medical Terminology, Database Design and Development, Healthcare Data Environments, Clinical Classification and Coding, Programming, Web Development, Computer Networking, Health Service Management, Activity Based Funding and Data Quality and Healthcare Software and Systems.

The course also offers direct industry experience via a 20 day work placement.

The first year of this course is delivered by Western Sydney University The College as an agent of Western Sydney University via extended face-to-face hours in smaller learning environments.

A Diploma in Information and Communications Technology (Health Information Management) is also available as an exit point at the end of the first year of the course.

For more information on Western Sydney University, The College, please refer to their web site.

For course advice during your first year of study, please use the contact below under 'Course Advice'. For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Information and Communications Technology (Health Information Management).

Study Mode

Three years full-time. Students will be required to attend the Kingswood or Parramatta South campus for some learning experiences.

Admission

For more information on applying please see link to The College admission pages below.

Domestic Students

Domestic students are required to have

- Completed an English unit in the NSW Higher School Certificate, Or

- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher.

Students are also assumed to have completed a Mathematics subject, equivalent to the Mathematics subject in the NSW Higher School Certificate.

Met other entry requirements such as

- An ATAR identified prior to the offer of a place, Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

International Students

International students must satisfy one of the following language requirements

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed the College EAP 4 course with a 50% pass Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher for which advanced standing can be applied for.

Academic Entry Requirements vary according to country of origin. However, in general

- Completion of Year 12 or its equivalent is the minimum entry requirement Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

Course Structure

Qualification for this award requires the successful completion of 260 credit points which include the units listed in the recommended sequence below.

Western Sydney University The College Units

Nirimba Campus

Term 1 of study

- 700171.2** Tertiary Study Skills in Information and Communications Technology (WSTC Prep)
- 700047.3** Programming Design (WSTC Prep)
- 700146.4** Mathematics 2 (WSTC Prep)
- 700040.3** Principles of Professional Communication 1 (WSTC)
- 700258.1** Introduction to Health Informatics (WSTC)

Term 2 of study

- 700045.3** Statistics for Academic Purposes (WSTC Prep)
- 700013.3** Systems Analysis and Design (WSTC)
- 700008.4** Programming Fundamentals (WSTC)
- 700011.4** Database Design and Development (WSTC)

Term 3 of study

- 700012.3** Computer Networking (WSTC)
- 700041.6** Statistical Decision Making (WSTC)
- 700257.1** Programming Techniques (WSTC)

Students may exit at this point and graduate with the Diploma in ICT (Health Information Management) following a passing grade in all of the above units. Students who progress onto Year Two may also be awarded the Diploma if they gain a passing grade in all of the above units.

- Students must pass all College Preparatory units before progressing to the Year Two units.
- Students must pass at least 70 credit points of University level units in Year One before progressing to the Year Two units.

Western Sydney University Units

For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Information and Communications Technology (Health Information Management).

Campbelltown, Parramatta (Victoria Road) and Penrith Campus

Year 2

Autumn session

- 300582.5** Technologies for Web Applications
- 300095.5** Computer Networks and Internets
- 300144.5** Object Oriented Analysis
- 300950.2** Fundamentals of Medical Concepts and Terminology

Spring session

- 300583.3** Web Systems Development
- 300958.2** Social Web Analytics
- 300955.1** Healthcare Data Environments
- 400277.4** Health Services Management

Year 3

Autumn session

- 300570.3** Human-Computer Interaction
- 300578.3** Professional Development
- 300951.2** Clinical Classification and Coding
- 400787.3** Health Services Management Practice

Spring session

- 300579.6** Professional Experience
- 300956.1** Healthcare Software and Systems
- 300953.1** Advanced Clinical Classification
- 300954.1** Activity Based Funding/Casemix and Data Quality

Diploma in Information and Communications Technology / Bachelor of Information Systems

6040.1

This course will allow students to complete the ICT Diploma together with the B. Information Systems. In addition to providing core competencies in technology related skills, ICT Diploma will also prepare students to study and research at the University level in the supportive environment.

Information Systems is a growing field. Each technology implementation requires careful planning, business analysis and the identification of goals systems implemented would need to meet, so that organisations and groups can achieve required goals. By undertaking this course students will also learn about database implementations, programming, web and mobile developments, networking, systems deployment, social media, data analytics and security. This course will also give students the opportunity to learn and engage with business while undertaking their course.

The first year of this course is delivered by Western Sydney University The College, as an agent of Western Sydney University, via extended face-to-face hours in smaller learning environments.

This course has the exit point Diploma in Information and Communications Technology at the end of the first year.

For more information on Western Sydney University, The College, please refer to their web site.

For course advice during your first year of study, please use the contact below under 'Course Advice'. For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Information Systems.

Study Mode

Three years full-time or six years part-time. Students will be required to attend the Kingswood or Parramatta South campus for some learning experiences.

Location

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta City Campus-George Street	Full Time	Internal
The College - Nirimba Education Precinct	Full Time	Internal

Admission

For more information on applying please see link to The College admission pages below.

Domestic Students

Domestic students are required to have

- Completed an English unit in the NSW Higher School Certificate, Or

- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher.

Students are also assumed to have completed a Mathematics subject, equivalent to the Mathematics subject in the NSW Higher School Certificate.

Met other entry requirements such as

- An ATAR identified prior to the offer of a place, Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

International Students

International students must satisfy one of the following language requirements

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed the College EAP 4 course with a 50% pass Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher for which advanced standing can be applied for.

Academic Entry Requirements vary according to country of origin. However, in general

- Completion of Year 12 or its equivalent is the minimum entry requirement Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

Course Structure

Qualification for this award requires the successful completion of 260 credit points which include the units listed in the recommended sequence below.

Western Sydney University The College Units

Nirimba and Parramatta City (George Street) Campus

Please note that all campuses may not have intakes each year.

Term 1 of study

700171.2	Tertiary Study Skills in Information and Communications Technology (WSTC Prep)
700047.3	Programming Design (WSTC Prep)
700146.4	Mathematics 2 (WSTC Prep)
700040.3	Principles of Professional Communication 1 (WSTC)
700000.5	Information Systems in Context (WSTC)

Term 2 of study

700045.3	Statistics for Academic Purposes (WSTC Prep)
700013.3	Systems Analysis and Design (WSTC)
700008.4	Programming Fundamentals (WSTC)
700011.4	Database Design and Development (WSTC)

Term 3 of study

700039.3	Object Oriented Analysis (WSTC)
700012.3	Computer Networking (WSTC)
700041.6	Statistical Decision Making (WSTC)

Students may exit at this point and graduate with the Diploma in ICT following a passing grade in all of the above units. Students who progress onto Year Two may also be awarded the Diploma if they gain a passing grade in all of the above units.

- Students must pass all College Preparatory units before progressing to the Year Two units.
- Students must pass at least 70 credit points of University level units in Year One before progressing to the Year Two units.

Western Sydney University Units

For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Information Systems.

Parramatta (Victoria Road) Campus**Year 2****Autumn session**

300582.5	Technologies for Web Applications
300570.3	Human-Computer Interaction

And two electives

Spring session

300569.2	Computer Security
300572.2	Information Systems Deployment and Management
300960.4	Mobile Applications Development

And one elective

Year 3**Autumn session**

300578.3	Professional Development
300584.4	Emerging Trends in Information Systems

And two electives

Spring session

300579.6	Professional Experience
300961.3	Social Computing

And two electives

Suggested Majors and Sub-majors**Majors****Parramatta Campus**

M3098.1	Big Data
M3068.1	Entertainment Computing
M3097.1	Health Informatics

M3054.1	Mathematics
M3074.1	Mobile Computing
M3109.1	Networking

Sub-majors**Parramatta Campus**

SM3101.1	Cloud Computing
SM3052.1	Entertainment Computing
SM3090.1	Health Informatics
SM3025.1	Mathematics
SM3057.1	Mobile Computing
SM3095.1	Networking
SM3053.1	Social Media Analytics
SM3089.1	Statistics
SM3001.1	Systems Administration
SM3077.1	Systems Security
SM3056.1	Web Application Development (for Computing Students)

Diploma in Building Design Management**7108.1**

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is Term 3 2016 or later.

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

The program is designed to provide students with the first year units included in the Bachelor of Building Design Management degree. It presents students with a range of units covering the design, building and management aspects of construction management and aims to prepare students for study beyond the first year of the Bachelor of Building Design Management degree. It is delivered in a smaller, more supportive learning environment than usually found in first year undergraduate programs. Students who successfully complete this course will articulate into the Bachelor of Building Design Management degree at Western Sydney University with up to one year equivalent of advanced standing.

For more information on Western Sydney University, The College, please refer to their web site.

Study Mode

One year (three terms) full-time

Location

Campus	Attendance Mode	
The College - Nirimba Education Precinct	Full Time	Internal

Admission

The aim of this course is to prepare students for tertiary study in Building Design Management and is accredited by the University, as principal, to enable its agent, Western Sydney University, The College, to produce students who are fully prepared for study beyond the first year of a tertiary award.

Local students are required to have

- Completed an English unit in the NSW Higher School Certificate Or
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher for which advanced standing can be applied for.

Met other entry requirements such as

- An ATAR identified prior to the offer of a place (the ATAR will be set each year at a level below that for admission for the Bachelor of Building Design Management) Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

Assumed knowledge: HSC English and Mathematics/ Science.

International students must satisfy one of the following language requirements

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed The College EAP 4 course with a 50% pass Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher for which advanced standing can be applied for.

Academic Entry Requirements vary according to country of origin. However, in general

- Completion of Year 12 or its equivalent is the minimum entry requirement
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

Course Structure

Students must pass the following preparatory level units for which no advanced standing will be granted in the University degree program.

- 700056.3** Academic English (WSTC Prep)
700201.3 Computer Studies (WSTC Prep)

Students must pass the following core University level units

- 700005.6** Accounting Information for Managers (WSTC)
700070.2 Building 1 (WSTC)
700071.2 Building 2 (WSTC)
700256.1 Construction Work Safety (WSTC)
700254.1 Enterprise Law (WSTC)
700255.1 Environmental Building Design (WSTC)
700150.2 Graphic Communication and Design (WSTC)
700154.2 Professional Competencies (WSTC)

Students must also pass the following non-award unit which does not count for credit towards the Diploma.

- 700167.2** Tertiary Study Skills in Construction Management (WSTC Prep)

Diploma in Building Design Management Extended

7136.1

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

This program is designed to provide students with the first year units included in the Building Design Management degree. The inclusion of additional preparatory units is designed to assist students in the transition to study at University level. The Diploma is delivered via extended face to face hours in smaller learning environments.

Students who successfully complete this Diploma will articulate into the Building Design Management degree with up to one year (80 credit points) equivalent of advanced standing.

For more information on Western Sydney University, The College, please refer to their web site.

Study Mode

One and a half years (four terms) full-time.

Location

Campus	Attendance	Mode
The College - Nirimba Education Precinct	Full Time	Internal

Admission

Recent School Leavers

Completion of Year 12 with specified ATAR to be determined year by year.

Non-credentialed Students

Australian Citizens and Permanent Residents who are aged 17 years or over.

International Students

IELTS 5.5 with minimum 5.0 in each sub band; or equivalent results from The College English Language Program or The College English Entrance Test; and completion of year 11 or equivalent with specified results.

Course Structure

Students are categorised into three Pathways. See individual links below for detailed course structure.

Local Recent School Leavers

- A7158.1** WSTC Building Design Management Extended - Recent School Leaver

Non-Credentialed Applicants

- A7159.1** WSTC Building Design Management Extended - Non-Credentialed

International Students

- A7160.1** WSTC Building Design Management Extended - International

Diploma in Construction Management

7015.7

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year for this course is Term 3, 2016 or later.

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

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

The program is designed to provide students with the first year units included in the Bachelor of Construction Management degree. It presents students with a range of units covering the science, building and management aspects of construction management and aims to prepare students for study beyond the first year of the Bachelor of Construction Management degree. It is delivered in a smaller, more supportive learning environment than usually found in first year undergraduate programs. Students who successfully complete the Diploma in Construction Management will articulate into the Bachelor of Construction Management degree at Western Sydney University with up to one year equivalent of advanced standing.

For more information on Western Sydney University, The College, please refer to their web site.

Study Mode

One year full-time (three terms)

Location

Campus	Attendance	Mode
The College - Nirimba Education Precinct	Full Time	Internal

Admission

The aim of these courses is to prepare students for tertiary study in Construction Management. They are accredited by the University, as principal, to enable its agent, The College, to produce students who are fully prepared for study beyond the first year of a tertiary award.

Local students are required to have:

- Completed an English unit in the NSW Higher School Certificate Or
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher for which advanced standing can be applied for.

Students are also assumed to have background in Mathematics at a senior high school level and assumed background in Science knowledge, preferably in Physics.

Met other entry requirements such as:

- An ATAR identified prior to the offer of a place (the ATAR will be set each year at a level below that for admission for the Bachelor of Construction Management) Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

International students must satisfy one of the following language requirements:

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed the College EAP 4 course with a 50% pass Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher for which advanced standing can be applied for.

Students are also assumed to have a background in Mathematics at a senior high school level and assumed background in Science knowledge, preferably in Physics.

Academic Entry Requirements vary according to country of origin. However, in general:

- Completion of Year 12 or its equivalent is the minimum entry requirement Or
- Completed the College Foundation Studies course with a Grade Point Average of 5.5 or higher.

Course Structure

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

70005.6	Accounting Information for Managers (WSTC)
70070.2	Building 1 (WSTC)
70071.2	Building 2 (WSTC)
700126.3	Design Science (WSTC)
700254.1	Enterprise Law (WSTC)
700252.1	Enterprise Leadership (WSTC)
700150.2	Graphic Communication and Design (WSTC)
700154.2	Professional Competencies (WSTC)

From 2018, 700126 Design Science is replaced by 700256 Construction Work Safety (WSTC).

Students are advised to select 700256 Construction Work Safety (WSTC) from 2018.

700256.1 Construction Work Safety (WSTC)

Students must pass the following preparatory level units for which no advanced standing will be granted in the University degree program

700056.3 Academic English (WSTC Prep)
700264.1 Scientific Methods for Construction Management (WSTC Prep)

Students must also pass the following non-award unit, which does not count for credit towards the Diploma

700167.2 Tertiary Study Skills in Construction Management (WSTC Prep)

Diploma in Construction Management Extended

7137.1

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

This program is designed to provide students with the first year units included in the Construction Management degree. The inclusion of additional preparatory units is designed to assist students in the transition to study at University level. The Diploma is delivered via extended face to face hours in smaller learning environments.

Students who successfully complete this Diploma will articulate into the Construction Management degree with up to one year (80 credit points) equivalent of advanced standing.

For more information on Western Sydney University, The College, please refer to their web site.

Study Mode

One and a half years full-time (four terms).

Location

Campus	Attendance	Mode
The College - Nirimba Education Precinct	Full Time	Internal

Admission

Recent School Leavers

Completion of Year 12 with specified ATAR to be determined year by year.

Non-credentialed Students

Australian Citizens and Permanent Residents who are aged 17 years or over.

International Students

IELTS 5.5 with minimum 5.0 in each sub band; or equivalent results from The College English Language Program or The College English Entrance Test; and completion of year 11 or equivalent with specified results.

Course Structure

Students are categorised into three Pathways. See individual links below for detailed course structure.

Local Recent School Leavers

A7161.1 WSTC Construction Management Extended - Recent School Leavers

Non-Credentialed Applicants

A7162.1 WSTC Construction Management Extended - Non-Credentialed

International Students

A7163.1 WSTC Construction Management Extended - International

Diploma in Construction Management Fast Track

7016.6

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year for this course is Term 2, 2016 or later.

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

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

The program is designed to provide students with the first year units included in the Bachelor of Construction Management degree. It presents students with a range of units covering the science, building and management aspects of construction management and aims to prepare students for study beyond the first year of the Bachelor of Construction Management degree. It is delivered in a smaller, more supportive learning environment than usually found in first year undergraduate programs. Students who successfully complete the Diploma in Construction Management Fast Track will articulate into the Bachelor of Construction Management degree at Western Sydney University with up to one year equivalent of advanced standing.

For more information on Western Sydney University, The College, please refer to their web site.

Study Mode

Eight months full-time (two terms)

Admission

The aim of the course is to prepare students for tertiary study in Construction Management. The Diploma is accredited by the University, as principal, to enable its agent, Western Sydney University, The College to produce students who are fully prepared for study beyond the first year of a tertiary award.

Local students entering this Diploma are required to have:

- Completed an English unit in the NSW Higher School Certificate Or
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher.

Students are also assumed to have background in Mathematics at a senior high school level and assumed background in Science knowledge, preferably in Physics. Met other entry requirements such as:

- An ATAR identified prior to the offer of a place (the ATAR will be set each year at a level below that for

admission for the Bachelor of Construction Management) Or

- Completed The College Foundation Studies course with a Grade Point Average of 6.0 or higher.

International students must satisfy one of the following language requirements:

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed The College EAP 4 course with a 50% pass Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher
- Passed a College Foundation Studies Mathematics unit at C grade level or higher.

Students are also assumed to have a background in Mathematics at a senior high school level and assumed background in Science knowledge, preferably in Physics.

Academic Entry Requirements vary according to country of origin. However, in general:

- Completion of Year 12 or its equivalent is the minimum entry requirement Or
- Completed The College Foundation Studies course with a Grade Point Average of 6.0 or higher.

Course Structure

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

700005.6	Accounting Information for Managers (WSTC)
700070.2	Building 1 (WSTC)
700071.2	Building 2 (WSTC)
700126.3	Design Science (WSTC)
700254.1	Enterprise Law (WSTC)
700252.1	Enterprise Leadership (WSTC)
700150.2	Graphic Communication and Design (WSTC)
700154.2	Professional Competencies (WSTC)

Students must also pass the non-award unit below, which does not count for credit towards the Diploma.

700167.2	Tertiary Study Skills in Construction Management (WSTC Prep)
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Diploma in Engineering

7034.1

This course replaces 7023 - Diploma in Engineering Science from 2014.

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

The Diploma in Engineering is designed to engage students in, and further prepare students for, tertiary study in Engineering / Engineering Science and in so doing address any perceived deficiencies in the students' mathematical and physics knowledge and skills. The Diploma presents students with units from the first year of the Bachelor of Engineering (Honours) or Bachelor of Engineering Science degrees. The Diploma aims to

produce students who are fully prepared for study beyond the first year of the Bachelor of Engineering (Honours) / Engineering Science degrees. The Diploma, completed in a smaller, more supportive learning environment than usually found in first year undergraduate programs, is designed to develop students to have greater ability in self-directed study and have the self-esteem that comes from prior achievement in a tertiary environment.

For more information on Western Sydney University, The College, please refer to their web site.

Study Mode

One year full-time. Students will be required to attend the Kingswood or Parramatta South campus for some learning experiences.

Location

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

Admission

The aim of the course is to prepare students for tertiary study in Engineering. The Diploma is accredited by the University, as principal, to enable its agent, Western Sydney University, The College to produce students who are fully prepared for study beyond the first year of a tertiary award.

Local students entering this Diploma are required to have:

- Completed an English unit in the NSW Higher School Certificate, Or
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed the English test administered by Western Sydney University, The College at IELTS 6.0 equivalent Or
- Passed the Foundation Studies Academic English unit, offered by Western Sydney University, The College at C grade level or higher for which advanced standing can be applied for.

Assumed to have a background in mathematics at senior high school level and assumed background Science knowledge, preferably in Physics.

Met other entry requirements such as:

- An ATAR identified prior to the offer of a place (the ATAR will be set each year at a level below that for admission for the Bachelor of Engineering) or from 2016, the Bachelor of Engineering (Honours), Or
- Completed the Foundation Studies course offered by Western Sydney University, The College, with a Grade Point Average of 5.5 or higher.

English Entry Requirements. International students entering the Diploma must satisfy one of the following language requirements:

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed the EAP 4 course offered by Western Sydney University, The College with a 50% pass Or
- Passed the English test administered by Western Sydney University, The College at IELTS 6.0 equivalent Or

- Passed the Foundation Studies Academic English unit, offered by Western Sydney University, The College at C grade level or higher for which advanced standing can be applied for.

Assumed to have background in mathematics at senior high school level and assumed background Science knowledge, preferably in Physics.

Academic Entry Requirements vary according to country of origin. However, in general:

- Completion of Year 12 or its equivalent is the minimum entry requirement Or
- Completed the Foundation Studies course offered by Western Sydney University, The College, with a Grade Point Average of 5.5 or higher.

Course Structure

Students must pass the following units

700024.3	Electrical Fundamentals (WSTC)
700018.2	Engineering Computing (WSTC)
700152.3	Engineering Materials (WSTC)
700151.3	Engineering Physics (WSTC)
700023.3	Fundamentals of Mechanics (WSTC)
700148.2	Introduction to Engineering Practice (WSTC)
700019.7	Mathematics for Engineers 1 (WSTC)
700100.4	Mathematics for Engineers Preliminary (WSTC)

Students must pass the following preparatory level units for which no advanced standing will be granted in the Western Sydney University degree program

700145.3	Foundation Physics 2 (WSTC Prep)
700146.4	Mathematics 2 (WSTC Prep)

Students must also pass the following non-award unit, which does not count for credit towards the Diploma

700169.2	Tertiary Study Skills in Engineering (WSTC Prep)
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Diploma in Engineering Extended

7162.1

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

This program is designed to provide students with the first year units included in the Bachelor of Engineering Science. The inclusion of additional preparatory units is designed to assist students in the transition to study at University level. The Diploma is delivered via extended face to face hours in smaller learning environments.

Students who successfully complete this Diploma may articulate into Bachelor of Engineering (Honours) or Bachelor of Engineering Science with up to one year (80 credit points) equivalent of advanced standing.

For more information on Western Sydney University, The College, please refer to their web site.

Study Mode

One and a half years full-time (four terms).

Location

Campus	Attendance	Mode
Penrith Campus	Full Time	Internal

Admission

Recent School Leavers

Completion of Year 12 with specified ATAR to be determined year by year.

Non-Credentialed Students

Australian Citizens and Permanent Residents who are aged 17 years or over.

International Students

IELTS 5.5 with minimum 5.0 in each sub band; or equivalent results from The College English Language Program or The College English Entrance Test; and completion of year 11 or equivalent with specified results.

Course Structure

Students are categorised into three Pathways. See individual links below for detailed course structure.

Recent School Leavers

A7193.1	WSTC Engineering Extended Local Recent School Leavers
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Non-Credentialed Applicants

A7194.1	WSTC Engineering Extended Non-Credentialed Applicants
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International Students

A7195.1	WSTC Engineering Extended International Students
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Diploma in Engineering Fast Track

7035.1

This course replaces 7024 - Diploma in Engineering Science Fast Track from 2014.

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

The Diploma in Engineering Fast Track is designed to engage students in, and further prepare students for, tertiary study in Engineering / Engineering Science and in so doing address any perceived deficiencies in the students' mathematical and physics knowledge and skills. The Diploma presents students with units from the first year of the Bachelor of Engineering Science degree or the Bachelor of Engineering (Honours). The Diploma aims to produce students who are fully prepared for study beyond the first year of the Bachelor of Engineering Science / Engineering (Honours) degree. The Diploma, completed in a smaller, more supportive learning environment than usually found in first year undergraduate programs, is designed to develop students to have greater ability in self-directed study and have the self-esteem that comes from

prior achievement in a tertiary environment. Students who successfully complete the Diploma in Engineering Fast Track will articulate into the Bachelor of Engineering (Honours) at Western Sydney University with up to one year equivalent of advanced standing.

For more information on Western Sydney University, The College, please refer to their web site.

Study Mode

Eight months full-time (two terms). Students will be required to attend the Kingswood or Parramatta South campus for some learning experiences.

Location

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

Admission

The aim of the course is to prepare students for tertiary study in Engineering. The Diploma is accredited by the University, as principal, to enable its agent, Western Sydney University, The College to produce students who are fully prepared for study beyond the first year of a tertiary award.

Local students entering this Diploma are required to have:

- Completed an English unit in the NSW Higher School Certificate, Or
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed the English test administered by Western Sydney University, The College at IELTS 6.0 equivalent Or
- Passed the Foundation Studies Academic English unit, offered by Western Sydney University, The College at C grade level or higher for which advanced standing can be applied for.

Assumed to have a background in mathematics at senior high school level and assumed background Science knowledge, preferably in Physics.

Met other entry requirements such as:

- An ATAR identified prior to the offer of a place (the ATAR will be set each year at a level below that for admission for the Bachelor of Engineering Science), Or
- Completed the Foundation Studies course offered by Western Sydney University, The College, with a Grade Point Average of 6.0 or higher

English Entry Requirements. International students entering the Diploma must satisfy one of the following language requirements:

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed the EAP 4 course offered by Western Sydney University, The College with a 50% pass Or
- Passed the English test administered by Western Sydney University, The College at IELTS 6.0 equivalent Or
- Passed the Foundation Studies Academic English unit, offered by Western Sydney University, The

College at C grade level or higher for which advanced standing can be applied for.

Assumed to have background in mathematics at senior high school level and assumed background Science knowledge, preferably in Physics.

Academic Entry Requirements vary according to country of origin. However, in general:

- Completion of Year 12 or its equivalent is the minimum entry requirement Or
- Completed the Foundation Studies course offered by Western Sydney University, The College, with a Grade Point Average of 6.0 or higher.

Special Requirements

All students must complete Tertiary Study Skills with Western Sydney University, The College prior to completion of the diploma.

Course Structure

Students must pass the following units

700024.3	Electrical Fundamentals (WSTC)
700018.2	Engineering Computing (WSTC)
700152.3	Engineering Materials (WSTC)
700151.3	Engineering Physics (WSTC)
700023.3	Fundamentals of Mechanics (WSTC)
700148.2	Introduction to Engineering Practice (WSTC)
700019.7	Mathematics for Engineers 1 (WSTC)
700100.4	Mathematics for Engineers Preliminary (WSTC)

Students must also pass the following non-award unit, which does not count for credit towards the Diploma

700169.2	Tertiary Study Skills in Engineering (WSTC Prep)
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Diploma in Information and Communications Technology

7163.1

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

This program is designed to provide a tertiary level foundation for further study in the Bachelor of Information and Communications Technology and Bachelor of Information Systems degrees. It has been constructed to provide students with a sample of Information and Communications Technology (ICT) units and university experiences.

Students who successfully complete the Diploma in Information and Communications Technology will articulate into Bachelor of Information and Communications Technology degree at Western Sydney University with up to one year equivalent of advanced standing. Students may also articulate into Bachelor of Information Systems.

For more information on Western Sydney University, The College, please refer to their web site.

Study Mode

One year full-time (three terms). Students will be required to attend the Kingswood or Parramatta South campus for some learning experiences.

Location

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

Admission

Local students entering this Diploma are required to have

- Completed an English unit in the NSW Higher School Certificate, Or
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher for which advanced standing can be applied for.

Students are also assumed to have completed a Mathematics subject, equivalent to the Mathematics subject in the NSW Higher School Certificate.

Met other entry requirements such as

- An ATAR identified prior to the offer of a place (the ATAR will be set each year at a level below that for admission for the Bachelor of Information Communications Technology or Computing), Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

International students entering the Diploma must satisfy one of the following language requirements

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed The College EAP 4 course with a 50% pass Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher for which advanced standing can be applied for.

Students are also assumed to have completed a Mathematics subject, equivalent to the Mathematics subject in the NSW Higher School Certificate.

Academic Entry Requirements vary according to country of origin. However, in general

- Completion of Year 12 or its equivalent is the minimum entry requirement Or
- Completed the College Foundation Studies course with a Grade Point Average of 5.5 or higher.

Course Structure

Students must pass the following units, including the preparatory level units for which no advanced standing will be granted in the University degree program

Term 1 of study

700171.2	Tertiary Study Skills in Information and Communications Technology (WSTC Prep)
700047.3	Programming Design (WSTC Prep)
700146.4	Mathematics 2 (WSTC Prep)
700040.3	Principles of Professional Communication 1 (WSTC)
700000.5	Information Systems in Context (WSTC)

Term 2 of study

700013.3	Systems Analysis and Design (WSTC)
700045.3	Statistics for Academic Purposes (WSTC Prep)
700008.4	Programming Fundamentals (WSTC)
700011.4	Database Design and Development (WSTC)

Term 3 of study

700039.3	Object Oriented Analysis (WSTC)
700012.3	Computer Networking (WSTC)
700041.6	Statistical Decision Making (WSTC)

Diploma in Information and Communications Technology Extended**7139.1**

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

This program is designed to provide a tertiary level foundation for further study in the Bachelor of Information and Communications Technology and Bachelor of Information Systems degrees. It has been constructed to provide students with a sample of ICT units and university experiences. The inclusion of additional preparatory units is designed to assist students in the transition to study at University level.

Students who successfully complete the Diploma in Information and Communications Technology Extended will articulate into Bachelor of Information and Communications Technology degree at Western Sydney University with up to one year equivalent of advanced standing (80 credit points). Students may also articulate into Bachelor of Information Systems.

For more information on Western Sydney University, The College, please refer to their web site.

Study Mode

One and a half years full-time (four terms). Students will be required to attend the Kingswood campus for some learning experiences.

Location

Campus	Attendance	Mode
Bankstown Campus	Full Time	Internal
Lithgow site	Full Time	Internal
The College - Nirimba Education Precinct	Full Time	Internal

Admission**Recent School Leavers**

Completion of Year 12 with specified ATAR to be determined year by year.

Non-credentialed Students

Australian Citizens and Permanent Residents who are aged 17 years or over.

International Students

IELTS 5.5 with minimum 5.0 in each sub band; or equivalent results from The College English Language Program or The College English Entrance Test; and completion of year 11 or equivalent with specified results.

Course Structure

Students are categorised into three Pathways. See individual links below for detailed course structure.

Recent School Leavers

A7167.1 WSTC Information and Communications Technology Extended - Recent School Leavers

Non-Credentialed Applicants

A7168.1 WSTC Information and Communications Technology Extended - Non-Credentialed

International Students

A7169.1 WSTC Information and Communications Technology Extended - International

Diploma in Information and Communications Technology Extended - ICT**7138.1**

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

This program is designed to provide students with the first year units included in the Information and Communications Technology degree. The inclusion of additional preparatory units is designed to assist students in the transition to study at University level. The Diploma is delivered via extended face to face hours in smaller learning environments.

Students who successfully complete this Diploma will articulate into the Information and Communications Technology degree with up to one year (80 credit points) equivalent of advanced standing.

For more information on Western Sydney University, The College, please refer to their web site.

Study Mode

One and a half years full-time (four terms). Students will be required to attend the Kingswood or Parramatta South campus for some learning experiences.

Location

Campus	Attendance Mode	
The College - Nirimba Education Precinct	Full Time	Internal

Admission**Recent School Leavers**

Completion of Year 12 with specified ATAR to be determined year by year.

Non-credentialed Students

Australian Citizens and Permanent Residents who are aged 17 years or over.

International Students

IELTS 5.5 with minimum 5.0 in each sub band; or equivalent results from The College English Language Program or The College English Entrance Test; and completion of Year 11 or equivalent with specified results.

Course Structure

Students are categorised into three Pathways. See links for detailed course structure.

Recent School Leavers

A7164.1 WSTC Information and Communications Technology Extended ICT - Recent School Leavers

Non-Credentialed Applicants

A7165.1 WSTC Information and Communications Technology Extended ICT - Non-Credentialed

International Students

A7166.1 WSTC Information and Communications Technology Extended - ICT - International

Diploma in Information and Communications Technology Extended - Information Systems**7140.1**

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

This program is designed to provide students with the first year units included in the Information Systems degree. The inclusion of additional preparatory units is designed to assist students in the transition to study at University level.

The Diploma is delivered via extended face to face hours in smaller learning environments.

Students who successfully complete this Diploma will articulate into the Information Systems degree with up to one year (80 credit points) equivalent of advanced standing. For more information on Western Sydney University, The College, please refer to their website.

Study Mode

One and a half years full-time (four terms). Students will be required to attend the Kingswood campus for some learning experiences.

Location

Campus	Attendance	Mode
The College - Nirimba Education Precinct	Full Time	Internal

Admission

Recent School Leavers

Completion of Year 12 with specified ATAR to be determined year by year.

Non-credentialed Students

Australian Citizens and Permanent Residents who are aged 17 years or over.

International Students

IELTS 5.5 with minimum 5.0 in each sub band; or equivalent results from The College English Language Program or The College English Entrance Test; and completion of year 11 or equivalent with specified results.

Course Structure

Students are categorised into three Pathways. See individual links below for detailed course structure.

Local recent school leavers

A7170.1	WSTC Information and Communications Technology Extended - InfoSys - Recent School Leaver
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Non-credentialed applicants

A7171.1	WSTC Information and Communications Technology Extended - Info Sys - Non-Credentialed
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International students

A7172.1	WSTC Information and Communications Technology Extended - Info Sys - International
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Diploma in Information and Communications Technology Fast Track

7004.3

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year for this course is 2014.

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

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

This program is designed to provide a tertiary level foundation for further study in the Bachelor of Information and Communications Technology and Bachelor of Information Systems degrees. It has been constructed to provide students with a sample of ICT units and university experiences. Students who successfully complete the Diploma in Information and Communications Technology Fast Track will articulate into Bachelor of Information and Communications Technology degree at UWS with up to one year equivalent of advanced standing. Students may also articulate into Bachelor of Information Systems.

For more information on Western Sydney University, The College, please refer to their web site.

Study Mode

Eight months full-time (two terms). Students will be required to attend the Kingswood or Parramatta South campus for some learning experiences.

Location

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

Admission

The aim of the course is to prepare students for tertiary study in Information and Communications Technology or Computing. The Diploma is accredited by the University, as principal, to enable its agent, Western Sydney University, The College to produce students who are fully prepared for study beyond the first year of a tertiary award.

Local students entering this Diploma are required to have:

- Completed an English unit in the NSW Higher School Certificate, Or
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed the English test administered by Western Sydney University, The College at IELTS 6.0 equivalent Or
- Passed the Foundation Studies Academic English unit, offered by Western Sydney University, The College at C grade level or higher.
- Passed either the Foundation Studies Commercial Mathematics unit or the Mathematics B unit offered

by Western Sydney University, The College at C grade level or higher.

Students are also assumed to have completed a Mathematics subject, equivalent to the Mathematics subject in the NSW Higher School Certificate.

Met other entry requirements such as:

- An ATAR identified prior to the offer of a place (the ATAR will be set each year at a level below that for admission for the Bachelor of Information Communications Technology or Computing), Or
- Completed the Foundation Studies course offered by Western Sydney University, The College, with a Grade Point Average of 6.0 or higher.

International students entering the Diploma must satisfy one of the following language requirements:

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed the EAP 4 course offered by Western Sydney University, The College with a 50% pass Or
- Passed the English test administered by Western Sydney University, The College at IELTS 6.0 equivalent Or
- Passed the Foundation Studies Academic English unit, offered by Western Sydney University, The College at C grade level or higher.
- Passed either the Foundation Studies Commercial Mathematics unit or the Mathematics B unit offered by Western Sydney University, The College at C grade level or higher.

Students are also assumed to have completed a Mathematics subject, equivalent to the Mathematics subject in the NSW Higher School Certificate.

Academic Entry Requirements vary according to country of origin. However, in general:

- Completion of Year 12 or its equivalent is the minimum entry requirement Or
- Completed the Foundation Studies course offered by Western Sydney University, The College, with a Grade Point Average of 6.0 or higher.

Special Requirements

Students must complete Tertiary Study Skills with UWSCollege prior to completion of the diploma.

Course Structure

Students who wish to enter the Bachelor of Information Systems on completion of this Diploma course will, subject to student numbers, study 700007 Statistics for Business (WSTC). Students intending to enter the Bachelor of Information and Communications Technology will, subject to student numbers, study 700041 Statistical Decision Making (WSTC).

Students must also pass the following seven units

- 700012.3** Computer Networking (WSTC)
- 700011.4** Database Design and Development (WSTC)
- 700000.5** Information Systems in Context (WSTC)
- 700039.3** Object Oriented Analysis (WSTC)
- 700040.3** Principles of Professional Communication 1 (WSTC)
- 700008.4** Programming Fundamentals (WSTC)
- 700013.3** Systems Analysis and Design (WSTC)

Choose one of

- 700007.5** Statistics for Business (WSTC)
- 700041.6** Statistical Decision Making (WSTC)

Students must also pass the following non-award unit, which does not count for credit towards the Diploma

- 700171.2** Tertiary Study Skills in Information and Communications Technology (WSTC Prep)

Diploma in Information and Communications Technology (Health Information Management)

7164.1

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

The program is designed to provide students with the first year units included in the Bachelor of Information and Communications Technology (Health Information Management) degree. It presents students with a range of units included in the first year of the corresponding degree and aims to prepare students for study beyond the first year of University study. It is delivered in a smaller, more supportive learning environment than usually found in first year undergraduate programs.

Students who successfully complete this course will articulate into the Bachelor of Information and Communications Technology (Health Information Management) degree at Western Sydney University with up to one year equivalent of advanced standing.

For more information on Western Sydney University, the College, please refer to their website.

Study Mode

One year full-time (three terms).

Location

Campus	Attendance	Mode
The College - Nirimba Education Precinct	Full Time	Internal

Admission

Domestic students are required to have

- Completed an English unit in the NSW Higher School Certificate, Or
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher.

Students are also assumed to have completed a Mathematics subject, equivalent to the Mathematics subject in the NSW Higher School Certificate.

Met other entry requirements such as

- An ATAR identified prior to the offer of a place (the ATAR will be set each year at a level below that for

admission for the Bachelor of Information and Communications Technology (Health Information Management), Or

- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

International students must satisfy one of the following language requirements

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed the College EAP 4 course with a 50% pass Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher for which advanced standing can be applied for.

Academic Entry Requirements vary according to country of origin. However, in general

- Completion of Year 12 or its equivalent is the minimum entry requirement Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

Course Structure

Students must pass the following units, including the preparatory level units for which no advanced standing will be granted in the University degree program

Term 1 of study

- 700171.2** Tertiary Study Skills in Information and Communications Technology (WSTC Prep)
- 700047.3** Programming Design (WSTC Prep)
- 700146.4** Mathematics 2 (WSTC Prep)
- 700040.3** Principles of Professional Communication 1 (WSTC)
- 700258.1** Introduction to Health Informatics (WSTC)

Term 2 of study

- 700045.3** Statistics for Academic Purposes (WSTC Prep)
- 700013.3** Systems Analysis and Design (WSTC)
- 700008.4** Programming Fundamentals (WSTC)
- 700011.4** Database Design and Development (WSTC)

Term 3 of study

- 700012.3** Computer Networking (WSTC)
- 700041.6** Statistical Decision Making (WSTC)
- 700257.1** Programming Techniques (WSTC)

Diploma in Information and Communications Technology (Health Information Management) Extended

7141.1

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

This program is designed to provide students with the first year units included in the Information and Communications Technology (Health Information Management) degree. The inclusion of additional preparatory units is designed to assist students in the transition to study at University level. The Diploma is delivered via extended face to face hours in smaller learning environments.

Students who successfully complete this Diploma will articulate into the Information and Communications Technology (Health Information Management) degree with up to one year (80 credit points) equivalent of advanced standing.

For more information on Western Sydney University, The College, please refer to their website.

Study Mode

One and a half years full-time (four terms). Students will be required to attend the Kingswood or Parramatta South campus for some learning experiences.

Admission

Recent School Leavers

Completion of Year 12 with specified ATAR to be determined year by year.

Non-credentialed Students

Australian Citizens and Permanent Residents who are aged 17 years or over.

International Students

IELTS 5.5 with minimum 5.0 in each sub band; or equivalent results from The College English Language Program or The College English Entrance Test; and completion of year 11 or equivalent with specified results.

Course Structure

Students are categorised into three Pathways. See individual links below for detailed course structure.

Local recent school leavers

- A7173.1** WSTC Information and Communications Technology (HealthInfoMgmt) Ext - Recent School Leaver

Non-credentialed applicants

- A7174.1** WSTC Information and Communications Technology (HealthInfoMgmt) Ext - Non-Credentialed

International students

- A7175.1** WSTC Information and Communications Technology (HealthInfMgmt) Extended - International

Specialisations

The College Admission Pathway - WSTC Building Design Management Extended - Recent School Leaver

A7158.1

Location

Campus	Mode
The College - Nirimba Education Precinct	Internal

Specialisation Structure

Students must be enrolled in 7136 Diploma in Building Design Management Extended to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the Preparatory units (Level Z) prior to enrolling in the University level units (WSTC).

Term 1 of Study

700200.2	Academic Skills for Construction Management (WSTC Prep)
700264.1	Scientific Methods for Construction Management (WSTC Prep)
700216.2	Introduction to the Australian Legal System (WSTC Prep)
700275.1	Communication Skills for Construction Management (WSTC Prep)

Term 2 of Study

700056.3	Academic English (WSTC Prep)
700201.3	Computer Studies (WSTC Prep)
700167.2	Tertiary Study Skills in Construction Management (WSTC Prep)
700154.2	Professional Competencies (WSTC)
700070.2	Building 1 (WSTC)

Term 3 of Study

700150.2	Graphic Communication and Design (WSTC)
700255.1	Environmental Building Design (WSTC)
700256.1	Construction Work Safety (WSTC)

Term 4 of Study

700005.6	Accounting Information for Managers (WSTC)
700254.1	Enterprise Law (WSTC)
700071.2	Building 2 (WSTC)

The College Admission Pathway - WSTC Building Design Management Extended - Non- Credentialed

A7159.1

Location

Campus	Mode
The College - Nirimba Education Precinct	Internal

Specialisation Structure

Students must be enrolled in 7136 Diploma in Building Design Management Extended to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the Preparatory units (Level Z) prior to enrolling in the University level units (WSTC).

Term 1 of Study

700200.2	Academic Skills for Construction Management (WSTC Prep)
700264.1	Scientific Methods for Construction Management (WSTC Prep)
700216.2	Introduction to the Australian Legal System (WSTC Prep)
700275.1	Communication Skills for Construction Management (WSTC Prep)

Term 2 of Study

700056.3	Academic English (WSTC Prep)
700201.3	Computer Studies (WSTC Prep)
700167.2	Tertiary Study Skills in Construction Management (WSTC Prep)
700154.2	Professional Competencies (WSTC)
700070.2	Building 1 (WSTC)

Term 3 of Study

700150.2	Graphic Communication and Design (WSTC)
700255.1	Environmental Building Design (WSTC)
700256.1	Construction Work Safety (WSTC)

Term 4 of Study

700005.6	Accounting Information for Managers (WSTC)
700254.1	Enterprise Law (WSTC)
700071.2	Building 2 (WSTC)

**The College Admission Pathway - WSTC
Building Design Management Extended -
International****A7160.1****Location**

Campus	Mode
The College - Nirimba Education Precinct	Internal

Specialisation Structure

Students must be enrolled in 7136 Diploma in Building Design Management Extended to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the Preparatory units (Level Z) prior to enrolling in the University level units (WSTC).

Term 1 of Study

700200.2	Academic Skills for Construction Management (WSTC Prep)
700264.1	Scientific Methods for Construction Management (WSTC Prep)
700216.2	Introduction to the Australian Legal System (WSTC Prep)
700275.1	Communication Skills for Construction Management (WSTC Prep)
700270.1	English for International Students 1 (WSTC Prep)

Term 2 of Study

700056.3	Academic English (WSTC Prep)
700201.3	Computer Studies (WSTC Prep)
700167.2	Tertiary Study Skills in Construction Management (WSTC Prep)
700154.2	Professional Competencies (WSTC)
700070.2	Building 1 (WSTC)

Term 3 of Study

700150.2	Graphic Communication and Design (WSTC)
700255.1	Environmental Building Design (WSTC)
700256.1	Construction Work Safety (WSTC)

Term 4 of Study

700005.6	Accounting Information for Managers (WSTC)
700254.1	Enterprise Law (WSTC)
700071.2	Building 2 (WSTC)

**The College Admission Pathway - WSTC
Construction Management Extended - Recent
School Leavers****A7161.1****Location**

Campus	Mode
The College - Nirimba Education Precinct	Internal

Specialisation Structure

Students must be enrolled in 7137 Diploma in Construction Management Extended to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the Preparatory units (Level Z) prior to enrolling in the University level units (WSTC).

Term 1 of Study

700200.2	Academic Skills for Construction Management (WSTC Prep)
700201.3	Computer Studies (WSTC Prep)
700216.2	Introduction to the Australian Legal System (WSTC Prep)
700275.1	Communication Skills for Construction Management (WSTC Prep)

Term 2 of Study

700056.3	Academic English (WSTC Prep)
700167.2	Tertiary Study Skills in Construction Management (WSTC Prep)
700264.1	Scientific Methods for Construction Management (WSTC Prep)
700154.2	Professional Competencies (WSTC)
700070.2	Building 1 (WSTC)

Term 3 of Study

700005.6	Accounting Information for Managers (WSTC)
700150.2	Graphic Communication and Design (WSTC)
700254.1	Enterprise Law (WSTC)

Term 4 of Study

700256.1	Construction Work Safety (WSTC)
700071.2	Building 2 (WSTC)
700252.1	Enterprise Leadership (WSTC)

**The College Admission Pathway - WSTC
Construction Management Extended - Non-
Credentialed****A7162.1****Location**

Campus	Mode
The College - Nirimba Education Precinct	Internal

Specialisation Structure

Students must be enrolled in 7137 Diploma in Construction Management Extended to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the Preparatory units (Level Z) prior to enrolling in the University level units (WSTC).

Term 1 of Study

700200.2	Academic Skills for Construction Management (WSTC Prep)
700201.3	Computer Studies (WSTC Prep)
700216.2	Introduction to the Australian Legal System (WSTC Prep)
700275.1	Communication Skills for Construction Management (WSTC Prep)

Term 2 of Study

700056.3	Academic English (WSTC Prep)
700167.2	Tertiary Study Skills in Construction Management (WSTC Prep)
700264.1	Scientific Methods for Construction Management (WSTC Prep)
700154.2	Professional Competencies (WSTC)
700070.2	Building 1 (WSTC)

Term 3 of Study

700005.6	Accounting Information for Managers (WSTC)
700150.2	Graphic Communication and Design (WSTC)
700254.1	Enterprise Law (WSTC)

Term 4 of Study

700256.1	Construction Work Safety (WSTC)
700071.2	Building 2 (WSTC)
700252.1	Enterprise Leadership (WSTC)

**The College Admission Pathway - WSTC
Construction Management Extended -
International****A7163.1****Location**

Campus	Mode
The College - Nirimba Education Precinct	Internal

Specialisation Structure

Students must be enrolled in 7137 Diploma in Construction Management Extended to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the Preparatory units (Level Z) prior to enrolling in the University level units (WSTC).

Term 1 of Study

700200.2	Academic Skills for Construction Management (WSTC Prep)
700270.1	English for International Students 1 (WSTC Prep)
700201.3	Computer Studies (WSTC Prep)
700216.2	Introduction to the Australian Legal System (WSTC Prep)
700275.1	Communication Skills for Construction Management (WSTC Prep)

Term 2 of Study

700056.3	Academic English (WSTC Prep)
700167.2	Tertiary Study Skills in Construction Management (WSTC Prep)
700264.1	Scientific Methods for Construction Management (WSTC Prep)
700154.2	Professional Competencies (WSTC)
700070.2	Building 1 (WSTC)

Term 3 of Study

700005.6	Accounting Information for Managers (WSTC)
700150.2	Graphic Communication and Design (WSTC)
700254.1	Enterprise Law (WSTC)

Term 4 of Study

700256.1	Construction Work Safety (WSTC)
700071.2	Building 2 (WSTC)
700252.1	Enterprise Leadership (WSTC)

The College Admission Pathway - WSTC Information and Communications Technology Extended ICT - Recent School Leavers

A7164.1

Location

Campus	Mode
The College - Nirimba Education Precinct	Internal

Specialisation Structure

Students must be enrolled in 7138 Diploma in Information and Communications Technology Extended - ICT to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the Preparatory units (Level Z) prior to enrolling in the University level units (WSTC).

Term 1 of Study

700276.1	Academic and Professional Communication (WSTC Prep)
700205.2	Academic Skills for Information Communications Technology (WSTC Prep)
700278.1	Information Technology in Business (WSTC Prep)
700284.1	Mathematics 1 (WSTC Prep)

Term 2 of Study

700171.2	Tertiary Study Skills in Information and Communications Technology (WSTC Prep)
700047.3	Programming Design (WSTC Prep)
700146.4	Mathematics 2 (WSTC Prep)
700040.3	Principles of Professional Communication 1 (WSTC)
700000.5	Information Systems in Context (WSTC)

Term 3 of Study

700013.3	Systems Analysis and Design (WSTC)
700045.3	Statistics for Academic Purposes (WSTC Prep)
700008.4	Programming Fundamentals (WSTC)
700011.4	Database Design and Development (WSTC)

Term 4 of Study

700039.3	Object Oriented Analysis (WSTC)
700012.3	Computer Networking (WSTC)
700041.6	Statistical Decision Making (WSTC)

The College Admission Pathway - WSTC Information and Communications Technology Extended ICT - Non-Credentialed

A7165.1

Specialisation Structure

Students must be enrolled in 7138 Diploma in Information and Communications Technology Extended - ICT to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the Preparatory units (Level Z) prior to enrolling in the University level units (WSTC).

Term 1 of Study

700276.1	Academic and Professional Communication (WSTC Prep)
700205.2	Academic Skills for Information Communications Technology (WSTC Prep)
700278.1	Information Technology in Business (WSTC Prep)
700284.1	Mathematics 1 (WSTC Prep)

Term 2 of Study

700171.2	Tertiary Study Skills in Information and Communications Technology (WSTC Prep)
700047.3	Programming Design (WSTC Prep)
700146.4	Mathematics 2 (WSTC Prep)
700040.3	Principles of Professional Communication 1 (WSTC)
700000.5	Information Systems in Context (WSTC)

Term 3 of Study

700013.3	Systems Analysis and Design (WSTC)
700045.3	Statistics for Academic Purposes (WSTC Prep)
700008.4	Programming Fundamentals (WSTC)
700011.4	Database Design and Development (WSTC)

Term 4 of Study

700039.3	Object Oriented Analysis (WSTC)
700012.3	Computer Networking (WSTC)
700041.6	Statistical Decision Making (WSTC)

The College Admission Pathway - WSTC Information and Communications Technology Extended - ICT - International

A7166.1

Specialisation Structure

Students must be enrolled in 7138 Diploma in Information and Communications Technology Extended - ICT to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the Preparatory units (Level Z) prior to enrolling in the University level units (WSTC).

Term 1 of Study

- 700276.1** Academic and Professional Communication (WSTC Prep)
- 700270.1** English for International Students 1 (WSTC Prep)
- 700205.2** Academic Skills for Information Communications Technology (WSTC Prep)
- 700278.1** Information Technology in Business (WSTC Prep)
- 700284.1** Mathematics 1 (WSTC Prep)

Term 2 of Study

- 700171.2** Tertiary Study Skills in Information and Communications Technology (WSTC Prep)
- 700047.3** Programming Design (WSTC Prep)
- 700146.4** Mathematics 2 (WSTC Prep)
- 700040.3** Principles of Professional Communication 1 (WSTC)
- 700000.5** Information Systems in Context (WSTC)

Term 3 of Study

- 700013.3** Systems Analysis and Design (WSTC)
- 700045.3** Statistics for Academic Purposes (WSTC Prep)
- 700008.4** Programming Fundamentals (WSTC)
- 700011.4** Database Design and Development (WSTC)

Term 4 of Study

- 700039.3** Object Oriented Analysis (WSTC)
- 700012.3** Computer Networking (WSTC)
- 700041.6** Statistical Decision Making (WSTC)

The College Admission Pathway - WSTC Information and Communications Technology Extended - Recent School Leavers

A7167.1

Location

Campus	Mode
Bankstown Campus	Internal
Lithgow site	Internal
The College - Nirimba Education Precinct	Internal

Specialisation Structure

Students must be enrolled in 7139 Diploma in Information and Communications Technology Extended to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the Preparatory units (Level Z) prior to enrolling in the University level units (WSTC).

Term 1 of study

- 700276.1** Academic and Professional Communication (WSTC Prep)
- 700205.2** Academic Skills for Information Communications Technology (WSTC Prep)
- 700278.1** Information Technology in Business (WSTC Prep)
- 700284.1** Mathematics 1 (WSTC Prep)

Term 2 of study

- 700171.2** Tertiary Study Skills in Information and Communications Technology (WSTC Prep)
- 700047.3** Programming Design (WSTC Prep)
- 700146.4** Mathematics 2 (WSTC Prep)
- 700040.3** Principles of Professional Communication 1 (WSTC)
- 700000.5** Information Systems in Context (WSTC)

Term 3 of study

- 700045.3** Statistics for Academic Purposes (WSTC Prep)
- 700013.3** Systems Analysis and Design (WSTC)
- 700008.4** Programming Fundamentals (WSTC)
- 700011.4** Database Design and Development (WSTC)

Term 4 of study

- 700039.3** Object Oriented Analysis (WSTC)
- 700012.3** Computer Networking (WSTC)
- 700041.6** Statistical Decision Making (WSTC)

The College Admission Pathway - WSTC Information and Communications Technology Extended - Non-Credentialed

A7168.1

Location

Campus	Mode
Bankstown Campus	Internal
Lithgow site	Internal
The College - Nirimba Education Precinct	Internal

Specialisation Structure

Students must be enrolled in 7139 Diploma in Information and Communications Technology Extended to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the Preparatory units (Level Z) prior to enrolling in the University level units (WSTC).

Term 1 of study

700276.1	Academic and Professional Communication (WSTC Prep)
700205.2	Academic Skills for Information Communications Technology (WSTC Prep)
700278.1	Information Technology in Business (WSTC Prep)
700284.1	Mathematics 1 (WSTC Prep)

Term 2 of study

700171.2	Tertiary Study Skills in Information and Communications Technology (WSTC Prep)
700047.3	Programming Design (WSTC Prep)
700146.4	Mathematics 2 (WSTC Prep)
700040.3	Principles of Professional Communication 1 (WSTC)
700000.5	Information Systems in Context (WSTC)

Term 3 of study

700045.3	Statistics for Academic Purposes (WSTC Prep)
700013.3	Systems Analysis and Design (WSTC)
700008.4	Programming Fundamentals (WSTC)
700011.4	Database Design and Development (WSTC)

Term 4 of study

700039.3	Object Oriented Analysis (WSTC)
700012.3	Computer Networking (WSTC)
700041.6	Statistical Decision Making (WSTC)

The College Admission Pathway - WSTC Information and Communications Technology Extended - International

A7169.1

Location

Campus	Mode
Bankstown Campus	Internal
Lithgow site	Internal
The College - Nirimba Education Precinct	Internal

Specialisation Structure

Students must be enrolled in 7139 Diploma in Information and Communications Technology Extended to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the Preparatory units (Level Z) prior to enrolling in the University level units (WSTC).

Term 1 of study

700276.1	Academic and Professional Communication (WSTC Prep)
700270.1	English for International Students 1 (WSTC Prep)
700205.2	Academic Skills for Information Communications Technology (WSTC Prep)
700278.1	Information Technology in Business (WSTC Prep)
700284.1	Mathematics 1 (WSTC Prep)

Term 2 of study

700171.2	Tertiary Study Skills in Information and Communications Technology (WSTC Prep)
700047.3	Programming Design (WSTC Prep)
700146.4	Mathematics 2 (WSTC Prep)
700040.3	Principles of Professional Communication 1 (WSTC)
700000.5	Information Systems in Context (WSTC)

Term 3 of study

700045.3	Statistics for Academic Purposes (WSTC Prep)
700013.3	Systems Analysis and Design (WSTC)
700008.4	Programming Fundamentals (WSTC)
700011.4	Database Design and Development (WSTC)

Term 4 of study

700039.3	Object Oriented Analysis (WSTC)
700012.3	Computer Networking (WSTC)
700041.6	Statistical Decision Making (WSTC)

The College Admission Pathway - WSTC Information and Communications Technology Extended - InfoSys - Recent School Leaver

A7170.1

Location

Campus	Mode
The College - Nirimba Education Precinct	Internal

Specialisation Structure

Students must be enrolled in 7140 Diploma in Information and communications Technology Extended - Information Systems to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the Preparatory units (Level Z) prior to enrolling in the University level units (WSTC).

Term 1 of Study

700276.1	Academic and Professional Communication (WSTC Prep)
700205.2	Academic Skills for Information Communications Technology (WSTC Prep)
700278.1	Information Technology in Business (WSTC Prep)
700284.1	Mathematics 1 (WSTC Prep)

Term 2 of Study

700171.2	Tertiary Study Skills in Information and Communications Technology (WSTC Prep)
700047.3	Programming Design (WSTC Prep)
700146.4	Mathematics 2 (WSTC Prep)
700040.3	Principles of Professional Communication 1 (WSTC)
700000.5	Information Systems in Context (WSTC)

Term 3 of Study

700045.3	Statistics for Academic Purposes (WSTC Prep)
700013.3	Systems Analysis and Design (WSTC)
700008.4	Programming Fundamentals (WSTC)
700011.4	Database Design and Development (WSTC)

Term 4 of Study

700039.3	Object Oriented Analysis (WSTC)
700012.3	Computer Networking (WSTC)
700041.6	Statistical Decision Making (WSTC)

The College Admission Pathway - WSTC Information and Communications Technology Extended - Info Sys - Non-Credentialed

A7171.1

Location

Campus	Mode
The College - Nirimba Education Precinct	Internal

Specialisation Structure

Students must be enrolled in 7140 Diploma in Information and communications Technology Extended - Information Systems to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the Preparatory units (Level Z) prior to enrolling in the University level units (WSTC).

Term 1 of Study

700276.1	Academic and Professional Communication (WSTC Prep)
700205.2	Academic Skills for Information Communications Technology (WSTC Prep)
700278.1	Information Technology in Business (WSTC Prep)
700284.1	Mathematics 1 (WSTC Prep)

Term 2 of Study

700171.2	Tertiary Study Skills in Information and Communications Technology (WSTC Prep)
700047.3	Programming Design (WSTC Prep)
700146.4	Mathematics 2 (WSTC Prep)
700040.3	Principles of Professional Communication 1 (WSTC)
700000.5	Information Systems in Context (WSTC)

Term 3 of Study

700045.3	Statistics for Academic Purposes (WSTC Prep)
700013.3	Systems Analysis and Design (WSTC)
700008.4	Programming Fundamentals (WSTC)
700011.4	Database Design and Development (WSTC)

Term 4 of Study

700039.3	Object Oriented Analysis (WSTC)
700012.3	Computer Networking (WSTC)
700041.6	Statistical Decision Making (WSTC)

The College Admission Pathway - WSTC Information and Communications Technology Extended - Info Sys - International

A7172.1

Location

Campus	Mode
The College - Nirimba Education Precinct	Internal

Specialisation Structure

Students must be enrolled in 7140 Diploma in Information and communications Technology Extended - Information Systems to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the Preparatory units (Level Z) prior to enrolling in the University level units (WSTC).

Term 1 of Study

700276.1	Academic and Professional Communication (WSTC Prep)
700270.1	English for International Students 1 (WSTC Prep)
700205.2	Academic Skills for Information Communications Technology (WSTC Prep)
700278.1	Information Technology in Business (WSTC Prep)
700284.1	Mathematics 1 (WSTC Prep)

Term 2 of Study

700171.2	Tertiary Study Skills in Information and Communications Technology (WSTC Prep)
700047.3	Programming Design (WSTC Prep)
700146.4	Mathematics 2 (WSTC Prep)
700040.3	Principles of Professional Communication 1 (WSTC)
700000.5	Information Systems in Context (WSTC)

Term 3 of Study

700045.3	Statistics for Academic Purposes (WSTC Prep)
700013.3	Systems Analysis and Design (WSTC)
700008.4	Programming Fundamentals (WSTC)
700011.4	Database Design and Development (WSTC)

Term 4 of Study

700039.3	Object Oriented Analysis (WSTC)
700012.3	Computer Networking (WSTC)
700041.6	Statistical Decision Making (WSTC)

The College Admission Pathway - WSTC Information and Communications Technology (HealthInfoMgmt) Ext - Recent School Leaver

A7173.1

Location

Campus	Mode
The College - Nirimba Education Precinct	Internal

Specialisation Structure

Students must be enrolled in 7141 Diploma in Information and Communications Technology (Health Information Management) Extended to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the Preparatory units (Level Z) prior to enrolling in the University level units (WSTC).

Term 1 of Study

700276.1	Academic and Professional Communication (WSTC Prep)
700205.2	Academic Skills for Information Communications Technology (WSTC Prep)
700278.1	Information Technology in Business (WSTC Prep)
700284.1	Mathematics 1 (WSTC Prep)

Term 2 of Study

700171.2	Tertiary Study Skills in Information and Communications Technology (WSTC Prep)
700047.3	Programming Design (WSTC Prep)
700146.4	Mathematics 2 (WSTC Prep)
700040.3	Principles of Professional Communication 1 (WSTC)
700258.1	Introduction to Health Informatics (WSTC)

Term 3 of Study

700045.3	Statistics for Academic Purposes (WSTC Prep)
700013.3	Systems Analysis and Design (WSTC)
700008.4	Programming Fundamentals (WSTC)
700011.4	Database Design and Development (WSTC)

Term 4 of Study

700012.3	Computer Networking (WSTC)
700041.6	Statistical Decision Making (WSTC)
700257.1	Programming Techniques (WSTC)

The College Admission Pathway - WSTC Information and Communications Technology (HealthInfoMgmt) Ext - Non-Credentialed

A7174.1

Location

Campus	Mode
The College - Nirimba Education Precinct	Internal

Specialisation Structure

Students must be enrolled in 7141 Diploma in Information and Communications Technology (Health Information Management) Extended to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the Preparatory units (Level Z) prior to enrolling in the University level units (WSTC).

Term 1 of Study

700276.1	Academic and Professional Communication (WSTC Prep)
700205.2	Academic Skills for Information Communications Technology (WSTC Prep)
700278.1	Information Technology in Business (WSTC Prep)
700284.1	Mathematics 1 (WSTC Prep)

Term 2 of Study

700171.2	Tertiary Study Skills in Information and Communications Technology (WSTC Prep)
700047.3	Programming Design (WSTC Prep)
700146.4	Mathematics 2 (WSTC Prep)
700040.3	Principles of Professional Communication 1 (WSTC)
700258.1	Introduction to Health Informatics (WSTC)

Term 3 of Study

700045.3	Statistics for Academic Purposes (WSTC Prep)
700013.3	Systems Analysis and Design (WSTC)
700008.4	Programming Fundamentals (WSTC)
700011.4	Database Design and Development (WSTC)

Term 4 of Study

700012.3	Computer Networking (WSTC)
700041.6	Statistical Decision Making (WSTC)
700257.1	Programming Techniques (WSTC)

The College Admission Pathway - WSTC Information and Communications Technology (HealthInfMgmt) Extended - International

A7175.1

Location

Campus	Mode
The College - Nirimba Education Precinct	Internal

Specialisation Structure

Students must be enrolled in 7141 Diploma in Information and Communications Technology (Health Information Management) Extended to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the Preparatory units (Level Z) prior to enrolling in the University level units (WSTC).

Term 1 of Study

700276.1	Academic and Professional Communication (WSTC Prep)
700270.1	English for International Students 1 (WSTC Prep)
700205.2	Academic Skills for Information Communications Technology (WSTC Prep)
700278.1	Information Technology in Business (WSTC Prep)
700284.1	Mathematics 1 (WSTC Prep)

Term 2 of Study

700171.2	Tertiary Study Skills in Information and Communications Technology (WSTC Prep)
700047.3	Programming Design (WSTC Prep)
700146.4	Mathematics 2 (WSTC Prep)
700040.3	Principles of Professional Communication 1 (WSTC)
700258.1	Introduction to Health Informatics (WSTC)

Term 3 of Study

700045.3	Statistics for Academic Purposes (WSTC Prep)
700013.3	Systems Analysis and Design (WSTC)
700008.4	Programming Fundamentals (WSTC)
700011.4	Database Design and Development (WSTC)

Term 4 of Study

700012.3	Computer Networking (WSTC)
700041.6	Statistical Decision Making (WSTC)
700257.1	Programming Techniques (WSTC)

The College Admission Pathway - WSTC Engineering Extended Local Recent School Leavers

A7193.1

Specialisation Structure

Students must be enrolled in 7162 Diploma in Engineering Extended to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Note that students must pass 40 credit points from the following preparatory units prior to enrolling in the University level units listed below.

Term 1 of study

- 700283.2** Professional Communication Skills for Engineering (WSTC Prep)
- 700284.1** Mathematics 1 (WSTC Prep)
- 700144.2** Foundation Physics 1 (WSTC Prep)
- 700204.2** Introductory Programming (WSTC Prep)

Term 2 of study

- 700169.2** Tertiary Study Skills in Engineering (WSTC Prep)
- 700146.4** Mathematics 2 (WSTC Prep)
- 700145.3** Foundation Physics 2 (WSTC Prep)
- 700148.2** Introduction to Engineering Practice (WSTC)
- 700018.2** Engineering Computing (WSTC)

Term 3 of study

- 700100.4** Mathematics for Engineers Preliminary (WSTC)
- 700152.3** Engineering Materials (WSTC)
- 700151.3** Engineering Physics (WSTC)

Term 4 of study

- 700024.3** Electrical Fundamentals (WSTC)
- 700023.3** Fundamentals of Mechanics (WSTC)
- 700019.7** Mathematics for Engineers 1 (WSTC)

The College Admission Pathway - WSTC Engineering Extended Non-Credentialed Applicants

A7194.1

Specialisation Structure

Students must be enrolled in 7162 Diploma in Engineering Extended to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Note that students must pass 40 credit points from the following preparatory units prior to enrolling in the University level units listed below.

Term 1 of study

- 700283.2** Professional Communication Skills for Engineering (WSTC Prep)
- 700284.1** Mathematics 1 (WSTC Prep)
- 700144.2** Foundation Physics 1 (WSTC Prep)
- 700204.2** Introductory Programming (WSTC Prep)

Term 2 of study

- 700169.2** Tertiary Study Skills in Engineering (WSTC Prep)
- 700146.4** Mathematics 2 (WSTC Prep)
- 700145.3** Foundation Physics 2 (WSTC Prep)
- 700148.2** Introduction to Engineering Practice (WSTC)
- 700018.2** Engineering Computing (WSTC)

Term 3 of study

- 700100.4** Mathematics for Engineers Preliminary (WSTC)
- 700152.3** Engineering Materials (WSTC)
- 700151.3** Engineering Physics (WSTC)

Term 4 of study

- 700024.3** Electrical Fundamentals (WSTC)
- 700023.3** Fundamentals of Mechanics (WSTC)
- 700019.7** Mathematics for Engineers 1 (WSTC)

The College Admission Pathway - WSTC Engineering Extended International Students

A7195.1

Specialisation Structure

Students must be enrolled in 7162 Diploma in Engineering Extended to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Note that students must pass 40 credit points from the following preparatory units prior to enrolling in the University level units listed below.

Term 1 of study

- 700283.2** Professional Communication Skills for Engineering (WSTC Prep)
- 700270.1** English for International Students 1 (WSTC Prep)
- 700284.1** Mathematics 1 (WSTC Prep)
- 700144.2** Foundation Physics 1 (WSTC Prep)
- 700204.2** Introductory Programming (WSTC Prep)

Term 2 of study

- 700169.2** Tertiary Study Skills in Engineering (WSTC Prep)
- 700146.4** Mathematics 2 (WSTC Prep)

700145.3 Foundation Physics 2 (WSTC Prep)
700148.2 Introduction to Engineering Practice (WSTC)
700018.2 Engineering Computing (WSTC)

Term 3 of study

700100.4 Mathematics for Engineers Preliminary (WSTC)
700152.3 Engineering Materials (WSTC)
700151.3 Engineering Physics (WSTC)

Term 4 of study

700024.3 Electrical Fundamentals (WSTC)
700023.3 Fundamentals of Mechanics (WSTC)
700019.7 Mathematics for Engineers 1 (WSTC)

Key Program - Civil**KT3118.1**

Civil engineering covers the fields of structural design, geotechnical engineering and water engineering, together with infrastructure design and environmental engineering. Graduates will work in the fields of design, construction and management of engineering structures. Projects may cover residential and commercial buildings, highways and airports, water supply and sewerage schemes, etc. You may be an engineer in private industry, government departments, or in city, municipal or shire councils.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure**Full-time - Autumn Intake****Year 2****Autumn session**

300738.3 Surveying for Engineers
300040.2 Mechanics of Materials
300762.2 Fluid Mechanics
300985.2 Soil Mechanics

Spring session

300984.1 Pavement Materials and Design
300733.2 Introduction to Structural Engineering
300737.4 Environmental Engineering
300765.2 Hydraulics

Students may transfer to 3740 Bachelor of Engineering (Honours) or 3691 Bachelor of Engineering Science at the end of Year 2 of study.

Year 3**Autumn session**

300732.2 Structural Analysis
300983.2 Surface Water Hydrology
300736.2 Concrete Structures (UG)
300666.2 Advanced Engineering Topic 1

Spring session

300730.2 Steel Structures
301001.1 Engineering Geomechanics
300667.2 Advanced Engineering Topic 2
300488.4 Numerical Methods in Engineering

Industrial Experience

300741.2 Industrial Experience (Engineering)

Year 4**Autumn session**

300971.1 Engineering Project 1
300969.1 Advanced Engineering Thesis 1: Preliminary Investigations

And one alternate unit

And one elective unit

* Elective units must be Level 2 or higher

Spring session

300972.1 Engineering Project 2
300982.2 Transportation Engineering
300970.1 Advanced Engineering Thesis 2: Detailed Investigations

And one alternate unit

Alternate Units

300986.1 Applied Mechanics
300987.1 Composite Structures
300988.1 Highway Infrastructure
300989.1 Hydrogeology
300990.1 Pile Foundations
300991.1 Statistical Hydrology
300798.1 Sustainability and Risk Engineering
300739.2 Timber Structures (UG)
300994.1 Waste Management
300992.1 Water and Wastewater Treatment
300993.1 Water Resource Engineering

Optional Electives

301158.1 Modern Construction Enterprises
301159.1 Modern Construction Projects

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

301089.1 Special Technical Project

Key Program - Electrical

KT3120.1

This program includes core subjects from all branches of electrical engineering. Graduates will work in the fields of electronic components, computers, electro-magnetics, power generation and distribution systems, power and control in public utilities, telecommunications, manufacturing, and electrical systems.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Full-time - Autumn Intake

Year 2

Autumn session

300005.2	Circuit Theory
300025.3	Electronics
300057.4	Signals and Systems
300018.2	Digital Systems 1

Spring session

300076.3	Microprocessor Systems
300481.2	Engineering Electromagnetics
300052.2	Power and Machines
300009.3	Control Systems

Students may transfer to 3740 Bachelor of Engineering (Honours) or 3691 Bachelor of Engineering Science at the end of Year 2 of study.

Year 3

Autumn session

300007.2	Communication Systems
300071.2	Electrical Machines 1
300666.2	Advanced Engineering Topic 1

And one elective unit*

*Elective units must be level 2 or higher

Spring session

300771.1	Power Systems
300069.3	Digital Signal Processing
300667.2	Advanced Engineering Topic 2
300070.4	Electrical Drives

Industrial Experience

300741.2	Industrial Experience (Engineering)
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Year 4

Autumn session

300971.1	Engineering Project 1
300772.1	Power Electronics
300969.1	Advanced Engineering Thesis 1: Preliminary Investigations

And one alternate unit

Spring session

300972.1	Engineering Project 2
300075.4	Instrumentation and Measurement
300970.1	Advanced Engineering Thesis 2: Detailed Investigations

And one alternate unit

Alternate Units

300997.1	Data Communications
300019.4	Digital Systems 2
300029.3	Engineering Visualization
300995.1	Power Quality
300489.2	Radio and Satellite Communication
300996.1	Smart Grids and Distributed Generation
300998.1	Sustainable Energy Systems
300065.5	Wireless Communications

Optional Electives

301158.1	Modern Construction Enterprises
301159.1	Modern Construction Projects

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

301089.1	Special Technical Project
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Key Program - Civil

KT3123.1

Civil engineering covers the fields of structural design, geotechnical engineering and water engineering, together with infrastructure design and environmental engineering. Graduates will work in the fields of design, construction and management of engineering structures. Projects may cover residential and commercial buildings, highways and airports, water supply and sewerage schemes, etc. You may be an engineer in private industry, government departments, or in city, municipal or shire councils.

Location

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

Specialisation Structure

Full-time - Autumn Intake

Year 2

Autumn session

300738.3	Surveying for Engineers
300040.2	Mechanics of Materials
300762.2	Fluid Mechanics
300985.2	Soil Mechanics

Spring session

300984.1	Pavement Materials and Design
300733.2	Introduction to Structural Engineering
300737.4	Environmental Engineering
300765.2	Hydraulics

Industrial Experience

300741.2	Industrial Experience (Engineering)
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Year 3

Autumn session

300732.2	Structural Analysis
300736.2	Concrete Structures (UG)
300967.1	Engineering Science Project 1

From Autumn 2019 students will enrol in

300983.2	Surface Water Hydrology
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Spring session

300730.2	Steel Structures
300968.1	Engineering Science Project 2

And two elective units

*Elective units must be Level 2 or higher

Note: the following unit will no longer be on offer in this specialisation from Autumn 2019. Students should now enrol in 300983 Surface Water Hydrology in Year 3 Autumn.

300982.2	Transportation Engineering
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Optional Elective

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

301089.1	Special Technical Project
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Key Program - Electrical

KT3125.1

This program includes core subjects from all branches of electrical engineering. Graduates will work in the fields of electronic components, computers, electro-magnetics,

power generation and distribution systems, power and control in public utilities, telecommunications, manufacturing, and electrical systems.

Location

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

Specialisation Structure

Full-time - Autumn Intake

Year 2

Autumn session

300005.2	Circuit Theory
300025.3	Electronics
300057.4	Signals and Systems
300018.2	Digital Systems 1

Spring session

300076.3	Microprocessor Systems
300481.2	Engineering Electromagnetics
300052.2	Power and Machines
300009.3	Control Systems

Industrial Experience

300741.2	Industrial Experience (Engineering)
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Year 3

Autumn session

300007.2	Communication Systems
300071.2	Electrical Machines 1
300967.1	Engineering Science Project 1

And one elective unit

*Elective units must be level 2 or higher

Spring session

300771.1	Power Systems
300069.3	Digital Signal Processing
300968.1	Engineering Science Project 2

And one elective unit

*Elective units must be level 2 or higher

Optional Elective

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

301089.1	Special Technical Project
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Key Program - Robotics and Mechatronics

KT3127.1

This program provides the skills necessary for the design of smart machines of all types: cruise control in automobiles, pilotless spacecraft, automated factories and medical telerobotics. The course, accompanied by an extensive and integrated hands-on laboratory program, is essentially concerned with the design of intelligent mechanical systems and automation, and includes the study of robotics, computer control, automated manufacturing, microprocessor applications and machine design. Graduates in the program acquire the combined skills of mechanical and computer/electrical engineering that are needed in leading-edge industries such as aerospace systems, the car industry, automation and robotic applications, biomedical engineering, laser systems, and building materials manufacture.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Full-time - Autumn Intake

Year 2

Autumn session

300035.3	Kinematics and Kinetics of Machines
300040.2	Mechanics of Materials
300005.2	Circuit Theory
300018.2	Digital Systems 1

Spring session

300480.2	Dynamics of Mechanical Systems
300735.2	Automated Manufacturing
300052.2	Power and Machines
300044.2	Microcontrollers and PLCs

Industrial Experience

300741.2	Industrial Experience (Engineering)
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Year 3

Autumn session

300764.1	Mechanical Design
300763.1	Advanced Dynamics
300056.4	Robotics
300967.1	Engineering Science Project 1

Spring session

300043.4	Mobile Robotics
300968.1	Engineering Science Project 2

And two elective units

* Elective units must be level 2 or higher

Optional Elective

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

301089.1	Special Technical Project
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Key Program - Civil

KT3135.1

Civil engineering covers the fields of structural design, geotechnical engineering and water engineering, together with infrastructure design and environmental engineering. Graduates will work in the fields of design, construction and management of engineering structures. Projects may cover residential and commercial buildings, highways and airports, water supply and sewerage schemes, etc. You may be an engineer in private industry, government departments, or in city, municipal or shire councils.

Location

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

Specialisation Structure

Bachelor of Engineering (Honours) programs have a common first year structure.

Students choose their key program at the end of first year. Civil engineering students will undertake the units listed below.

Full-time Autumn Intake

Year 2

Autumn session

300738.3	Surveying for Engineers
300040.2	Mechanics of Materials
300762.2	Fluid Mechanics
300985.2	Soil Mechanics

Spring session

300984.1	Pavement Materials and Design
300733.2	Introduction to Structural Engineering
300737.4	Environmental Engineering
300765.2	Hydraulics

Students may transfer to 3691 Bachelor of Engineering Science at the end of Year 2 of study.

Year 3**Autumn session**

- 300732.2 Structural Analysis
 300983.2 Surface Water Hydrology
 300736.2 Concrete Structures (UG)

And one alternate unit

Spring session

- 300730.2 Steel Structures
 301001.1 Engineering Geomechanics
 300488.4 Numerical Methods in Engineering

And one alternate unit

Industrial Experience

- 300741.2 Industrial Experience (Engineering)

Year 4**Autumn session**

- 300971.1 Engineering Project 1
 300973.2 Engineering Thesis 1: Preliminary Investigations

And one alternate unit

And one elective unit

*Elective units must be level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary unit)

Spring session

- 300982.2 Transportation Engineering
 300972.1 Engineering Project 2
 300974.2 Engineering Thesis 2: Detailed Investigations

And one alternate unit

Alternate Units

Alternate units may be used to complete one of the Specialisation sub-majors listed below.

- 300986.1 Applied Mechanics
 300987.1 Composite Structures
 300988.1 Highway Infrastructure
 300989.1 Hydrogeology
 300990.1 Pile Foundations
 300991.1 Statistical Hydrology
 300798.1 Sustainability and Risk Engineering
 300739.2 Timber Structures (UG)
 300994.1 Waste Management
 300992.1 Water and Wastewater Treatment
 300993.1 Water Resource Engineering

Specialisation Sub-majors

- SM3065.1 Structures
 SM3066.1 Geotechnical
 SM3067.1 Water and Environment

Optional Electives

- 301158.1 Modern Construction Enterprises
 301159.1 Modern Construction Projects

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

- 301089.1 Special Technical Project

Key Program - Electrical**KT3137.1**

This program includes core subjects from all branches of electrical engineering. Graduates will work in the fields of electronic components, computers, electro-magnetics, power generation and distribution systems, power and control systems in public utilities, telecommunications, manufacturing, and electrical systems.

Location

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

Specialisation Structure

Bachelor of Engineering (Honours) programs have a common first year structure.

Students choose their key program at the end of first year. Electrical engineering students will undertake the units listed below.

Full-time - Autumn Intake**Year 2****Autumn session**

- 300005.2 Circuit Theory
 300025.3 Electronics
 300057.4 Signals and Systems
 300018.2 Digital Systems 1

Spring session

- 300076.3 Microprocessor Systems
 300481.2 Engineering Electromagnetics
 300052.2 Power and Machines
 300009.3 Control Systems

Students may transfer to 3691 Bachelor of Engineering Science at the end of Year 2 of study.

Year 3**Autumn session**

- 300007.2 Communication Systems
 300071.2 Electrical Machines 1

And one alternate unit

And one elective unit*

*Elective units must be level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary unit)

Spring session

300771.1	Power Systems
300069.3	Digital Signal Processing
300070.4	Electrical Drives

And one alternate unit

Industrial Experience

300741.2	Industrial Experience (Engineering)
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Year 4

Autumn session

300971.1	Engineering Project 1
300772.1	Power Electronics
300973.2	Engineering Thesis 1: Preliminary Investigations

And one alternate unit

Spring session

300972.1	Engineering Project 2
300075.4	Instrumentation and Measurement
300974.2	Engineering Thesis 2: Detailed Investigations

And one Alternate unit

Alternate Units

Alternate units may be used to complete one of the Specialisation sub-majors listed below.

401140.1	Biomechanics
301122.1	Biomedical Electronics
301121.1	Biomedical Signals and Data Analysis
300997.1	Data Communications
300019.4	Digital Systems 2
300029.3	Engineering Visualization
300361.3	Introduction to Human Biology
300995.1	Power Quality
300489.2	Radio and Satellite Communication
300996.1	Smart Grids and Distributed Generation
300998.1	Sustainable Energy Systems
300065.5	Wireless Communications

Specialisation Sub-majors

SM3069.1	Telecommunications
SM3070.1	Power Engineering
SM3091.1	Biomedical Engineering

Optional Electives

301158.1	Modern Construction Enterprises
301159.1	Modern Construction Projects

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

301089.1 Special Technical Project

Key Program - Mechanical

KT3138.1

In addition to providing training in conventional mechanical engineering subjects, the course structure introduces students to units of study that address sustainability including sustainable design and sustainable energy engineering. Graduates will be well equipped with broad-based skills that meet the demand of Australian industries and are conscious of the need to promote sustainable design and practices. Examples include mechanical and machinery design; manufacturing; energy production; and marketing and management activities. Skills gained are required in industries such as manufacturing, materials handling, automobile, aerospace, mining, building services and infrastructure development.

Location

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

Specialisation Structure

Bachelor of Engineering (Honours) programs have a common first year structure.

Students choose their key program at the end of first year. Mechanical engineering students will undertake the units listed below.

Full-time - Autumn Intake

Year 2

Autumn session

300035.3	Kinematics and Kinetics of Machines
300040.2	Mechanics of Materials
300762.2	Fluid Mechanics
301079.1	Graphics 3: 3D Engineering Specifications and Visualisation

Spring session

300480.2	Dynamics of Mechanical Systems
300735.2	Automated Manufacturing
300760.1	Thermodynamics and Heat Transfer
300761.1	Advanced Mechanics of Materials

Students may transfer to 3691 Bachelor of Engineering Science at the end of Year 2 of study.

Year 3

Autumn session

300764.1	Mechanical Design
300763.1	Advanced Dynamics

And one alternate unit

And one elective unit*

*Elective units must be level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary unit)

Spring session

300759.1 Thermal and Fluid Engineering
300488.4 Numerical Methods in Engineering
300487.3 Mechatronic Design

And one alternate unit

Industrial Experience

300741.2 Industrial Experience (Engineering)

Year 4

Autumn session

300971.1 Engineering Project 1
300056.4 Robotics
300973.2 Engineering Thesis 1: Preliminary Investigations

And one alternate unit

Spring session

300972.1 Engineering Project 2
301000.2 Computer Aided Engineering
300974.2 Engineering Thesis 2: Detailed Investigations

And one alternate unit

Alternate Units

Alternate units may be used to complete one of the Specialisation sub-majors listed below.

401140.1 Biomechanics
301122.1 Biomedical Electronics
301121.1 Biomedical Signals and Data Analysis
300999.1 Computational Fluid Dynamics
301076.1 Graphics 2: Visual Simulation
301091.1 Graphics 4: Kinetic Narratives
300570.3 Human-Computer Interaction
300361.3 Introduction to Human Biology
300044.2 Microcontrollers and PLCs
300043.4 Mobile Robotics
301081.2 Sustainable Design 2: Product Service Systems

Specialisation Sub-majors

SM3072.1 Automation
SM3092.1 Computer Aided Design (Mechanical)
SM3091.1 Biomedical Engineering

Optional Electives

301158.1 Modern Construction Enterprises
301159.1 Modern Construction Projects

The following unit is an optional elective unit offered to students who are engaged in a School approved project.

This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

301089.1 Special Technical Project

Key Program - Robotics and Mechatronics

KT3139.1

This program provides the skills necessary for the design of smart machines of all types: cruise control in automobiles, pilotless spacecraft, automated factories and medical telerobotics. The course, accompanied by an extensive and integrated hands-on laboratory program, is essentially concerned with the design of intelligent mechanical systems and automation, and includes the study of robotics, computer control, automated manufacturing, microprocessor applications and machine design. Graduates in the program acquire the combined skills of mechanical and computer/electrical engineering that are needed in leading-edge industries such as aerospace systems, the car industry, automation and robotic applications, biomedical engineering, laser systems, and building materials manufacture.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Bachelor of Engineering (Honours) programs have a common first year structure.

Students choose their key program at the end of first year. Robotics and Mechatronics engineering students will undertake the units listed below.

Full-time - Autumn Intake

Year 2

Autumn session

300035.3 Kinematics and Kinetics of Machines
300040.2 Mechanics of Materials
300005.2 Circuit Theory
300018.2 Digital Systems 1

Spring session

300480.2 Dynamics of Mechanical Systems
300735.2 Automated Manufacturing
300052.2 Power and Machines
300044.2 Microcontrollers and PLCs

Students may transfer to 3691 Bachelor of Engineering Science at the end of Year 2 of study.

Year 3

Autumn session

300764.1 Mechanical Design

300763.1 Advanced Dynamics
300025.3 Electronics

And one alternate unit

Spring session

300043.4 Mobile Robotics
300487.3 Mechatronic Design

And one alternate unit

And one elective unit

* Elective units must be level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary unit)

Industrial Experience

300741.2 Industrial Experience (Engineering)

Year 4

Autumn session

300971.1 Engineering Project 1
300056.4 Robotics
300973.2 Engineering Thesis 1: Preliminary Investigations

And one alternate unit

Spring session

300972.1 Engineering Project 2
300075.4 Instrumentation and Measurement
300974.2 Engineering Thesis 2: Detailed Investigations

And one alternate unit

Alternate Units

Alternate units may be used to complete one of the Specialisation sub-majors listed below.

401140.1 Biomechanics
301122.1 Biomedical Electronics
301121.1 Biomedical Signals and Data Analysis
300999.1 Computational Fluid Dynamics
301000.2 Computer Aided Engineering
300029.3 Engineering Visualization
300762.2 Fluid Mechanics
301076.1 Graphics 2: Visual Simulation
301079.1 Graphics 3: 3D Engineering Specifications and Visualisation
300361.3 Introduction to Human Biology
300759.1 Thermal and Fluid Engineering
300760.1 Thermodynamics and Heat Transfer

Specialisation Sub-majors

SM3074.1 Thermal and Fluid Systems
SM3091.1 Biomedical Engineering
SM3093.1 Computer Aided Design (Mechatronics)

Optional Electives

301158.1 Modern Construction Enterprises
301159.1 Modern Construction Projects

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

301089.1 Special Technical Project

Key Program - Mechanical

KT3140.1

In addition to providing training in conventional mechanical engineering subjects, the course structure introduces students to units of study that address sustainability including sustainable design and sustainable energy engineering. Graduates will be well equipped with broad-based skills that meet the demand of Australian industries and are conscious of the need to promote sustainable design and practices. Examples include mechanical and machinery design; manufacturing; energy production; and marketing and management activities. Skills gained are required in industries such as manufacturing, materials handling, automobile, aerospace, mining, building services and infrastructure development.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students choose their key program at the end of first year. Mechanical engineering students will then undertake the following units.

Full-time Autumn Intake

Year 2

Autumn session

300035.3 Kinematics and Kinetics of Machines
300040.2 Mechanics of Materials
300762.2 Fluid Mechanics
301079.1 Graphics 3: 3D Engineering Specifications and Visualisation

Spring session

300480.2 Dynamics of Mechanical Systems
300735.2 Automated Manufacturing
300760.1 Thermodynamics and Heat Transfer
300761.1 Advanced Mechanics of Materials

Students may transfer to 3740 Bachelor of Engineering (Honours) or 3691 Bachelor of Engineering Science at the end of Year 2 of study.

Year 3

Autumn session

- 300764.1** Mechanical Design
300763.1 Advanced Dynamics
300666.2 Advanced Engineering Topic 1

And one elective unit

* Elective units must be level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary unit)

Spring session

- 300759.1** Thermal and Fluid Engineering
300488.4 Numerical Methods in Engineering
300667.2 Advanced Engineering Topic 2
300487.3 Mechatronic Design

Industrial Experience

- 300741.2** Industrial Experience (Engineering)

Year 4

Autumn session

- 300971.1** Engineering Project 1
300056.4 Robotics
300969.1 Advanced Engineering Thesis 1: Preliminary Investigations

And one alternate unit

Spring session

- 300972.1** Engineering Project 2
300970.1 Advanced Engineering Thesis 2: Detailed Investigations
301000.2 Computer Aided Engineering

And one alternate unit

Alternate Units

- 300999.1** Computational Fluid Dynamics
301076.1 Graphics 2: Visual Simulation
301091.1 Graphics 4: Kinetic Narratives
300570.3 Human-Computer Interaction
300044.2 Microcontrollers and PLCs
300043.4 Mobile Robotics
301081.2 Sustainable Design 2: Product Service Systems

Optional Electives

- 301158.1** Modern Construction Enterprises
301159.1 Modern Construction Projects

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

- 301089.1** Special Technical Project

Key Program - Robotics and Mechatronics

KT3141.1

This program provides the skills necessary for the design of smart machines of all types: cruise control in automobiles, pilotless spacecraft, automated factories and medical telerobotics. The course, accompanied by an extensive and integrated hands-on laboratory program, is essentially concerned with the design of intelligent mechanical systems and automation, and includes the study of robotics, computer control, automated manufacturing, microprocessor applications and machine design. Graduates in the program acquire the combined skills of mechanical and computer/electrical engineering that are needed in leading-edge industries such as aerospace systems, the car industry, automation and robotic applications, biomedical engineering, laser systems, and building materials manufacture.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students choose their key program at the end of first year. Robotics and Mechatronics engineering students will then undertake the following units.

Full-time - Autumn Intake

Year 2

Autumn session

- 300035.3** Kinematics and Kinetics of Machines
300040.2 Mechanics of Materials
300005.2 Circuit Theory
300018.2 Digital Systems 1

Spring session

- 300480.2** Dynamics of Mechanical Systems
300735.2 Automated Manufacturing
300052.2 Power and Machines
300044.2 Microcontrollers and PLCs

Students may transfer to 3740 Bachelor of Engineering (Honours) or 3691 Bachelor of Engineering Science at the end of Year 2 of study.

Year 3

Autumn session

- 300764.1** Mechanical Design
300763.1 Advanced Dynamics
300025.3 Electronics
300666.2 Advanced Engineering Topic 1

Spring session

- 300043.4** Mobile Robotics
300667.2 Advanced Engineering Topic 2
300487.3 Mechatronic Design

And one elective unit

* Elective units must be level 2 or higher

Industrial Experience

- 300741.2** Industrial Experience (Engineering)

Year 4**Autumn session**

- 300971.1** Engineering Project 1
300056.4 Robotics
300969.1 Advanced Engineering Thesis 1: Preliminary Investigations

And one alternate unit

Spring session

- 300972.1** Engineering Project 2
300075.4 Instrumentation and Measurement
300970.1 Advanced Engineering Thesis 2: Detailed Investigations

And one alternate unit

Alternate Units

- 300999.1** Computational Fluid Dynamics
301000.2 Computer Aided Engineering
300029.3 Engineering Visualization
300762.2 Fluid Mechanics
301076.1 Graphics 2: Visual Simulation
301079.1 Graphics 3: 3D Engineering Specifications and Visualisation
300759.1 Thermal and Fluid Engineering
300760.1 Thermodynamics and Heat Transfer

Optional Electives

- 301158.1** Modern Construction Enterprises
301159.1 Modern Construction Projects

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

- 301089.1** Special Technical Project

Key Program - Mechanical**KT3142.1**

In addition to providing training in conventional mechanical engineering subjects, the course structure introduces students to units of study that address sustainability including sustainable design and sustainable energy engineering. Graduates will be well equipped with broad-

based skills that meet the demand of Australian industries and are conscious of the need to promote sustainable design and practices. Examples include mechanical and machinery design; manufacturing; energy production; and marketing and management activities. Skills gained are required in industries such as manufacturing, materials handling, automobile, aerospace, mining, building services and infrastructure development.

Location

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

Specialisation Structure

Students choose their key program at the end of first year. Mechanical engineering students will then undertake the following units.

Full-time - Autumn Intake**Year 2****Autumn session**

- 300035.3** Kinematics and Kinetics of Machines
300040.2 Mechanics of Materials
300762.2 Fluid Mechanics
301079.1 Graphics 3: 3D Engineering Specifications and Visualisation

Spring session

- 300480.2** Dynamics of Mechanical Systems
300735.2 Automated Manufacturing
300760.1 Thermodynamics and Heat Transfer
300761.1 Advanced Mechanics of Materials

Industrial Experience

- 300741.2** Industrial Experience (Engineering)

Year 3**Autumn session**

- 300764.1** Mechanical Design
300763.1 Advanced Dynamics
300967.1 Engineering Science Project 1

And one elective unit

*Elective units must be level 2 or higher

Spring session

- 300759.1** Thermal and Fluid Engineering
300488.4 Numerical Methods in Engineering
300968.1 Engineering Science Project 2

And one elective unit

*Elective units must be level 2 or higher

Optional Elective

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

301089.1 Special Technical Project

Key Program - Civil**KT3143.1**

Civil engineering covers the fields of structural design, geotechnical engineering and water engineering, together with infrastructure design and environmental engineering. Graduates will work in the fields of design, construction and management of engineering structures. Projects may cover residential and commercial buildings, highways and airports, water supply and sewerage schemes, etc. You may be an engineer in private industry, government departments, or in city, municipal or shire councils.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure**Full-time - Autumn Intake****Year 1****Autumn session**

200237.4 Mathematics for Engineers 1
300963.1 Engineering Physics

BBus core unit 1
BBus core unit 2

Spring session

200238.2 Mathematics for Engineers 2
300965.1 Engineering Materials

BBus core unit 3
BBus core unit 4

Year 2**Autumn session**

300027.2 Engineering Computing

BBus professional unit 1
BBus professional unit 2
BBus major unit 1

Spring session

300021.2 Electrical Fundamentals

300463.2 Fundamentals of Mechanics

BBus major unit 2
Bbus major unit 3

Year 3**Autumn session**

300738.3 Surveying for Engineers
300040.2 Mechanics of Materials
300762.2 Fluid Mechanics
300985.2 Soil Mechanics

Spring session

300984.1 Pavement Materials and Design
300733.2 Introduction to Structural Engineering
300737.4 Environmental Engineering
300765.2 Hydraulics

Year 4**Autumn session**

300732.2 Structural Analysis
300736.2 Concrete Structures (UG)
300983.2 Surface Water Hydrology

BBus major unit 4

Spring session

300730.2 Steel Structures
301001.1 Engineering Geomechanics

BBus major unit 5
BBus major unit 6

Industrial Experience

300741.2 Industrial Experience (Engineering)

Year 5**Autumn session**

300973.2 Engineering Thesis 1: Preliminary Investigations

BBus professional unit 3
BBus major unit 7
BBus major unit 8

Spring session

300982.2 Transportation Engineering
300974.2 Engineering Thesis 2: Detailed Investigations
300488.4 Numerical Methods in Engineering

BBus professional unit 4

Key Program - Construction

KT3144.1

The Construction Key Program consists of core subjects in structural engineering, project management and construction technologies. Graduates will work in the fields of construction, structural design, and project management. Career opportunities include those in the private or public sector on projects covering highways, airports, and residential & commercial buildings.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Full-time - Autumn Intake

Year 1

Autumn session

200237.4	Mathematics for Engineers 1
300963.1	Engineering Physics

BBus core unit 1

BBus core unit 2

Spring session

200238.2	Mathematics for Engineers 2
300965.1	Engineering Materials

BBus core unit 3

BBus core unit 4

Year 2

Autumn session

300027.2	Engineering Computing
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BBus professional unit 1

BBus professional unit 2

BBus major unit 1

Spring session

300021.2	Electrical Fundamentals
300463.2	Fundamentals of Mechanics

BBus major unit 2

Bbus major unit 3

Year 3

Autumn session

300738.3	Surveying for Engineers
300040.2	Mechanics of Materials

200486.3	Quantity Surveying 1
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From Autumn 2019, students are advised to select the following equivalent unit, 301208 Building Measurement, which will replace 200486 Quantity Surveying 1.

301208.1	Building Measurement
300985.2	Soil Mechanics

Spring session

300984.1	Pavement Materials and Design
300733.2	Introduction to Structural Engineering
200468.2	Estimating 1

From Spring 2019, students are advised to select the following equivalent unit, 301207 Building Estimates and Tendering, which will replace 200468 Estimating 1.

301207.1	Building Estimates and Tendering
300707.2	Building 2

Year 4

Autumn session

300732.2	Structural Analysis
300736.2	Concrete Structures (UG)
300728.3	Construction Planning

BBus major unit 4

Spring session

300730.2	Steel Structures
300727.2	Project Management

BBus major unit 5

BBus major unit 6

Industrial Experience

300741.2	Industrial Experience (Engineering)
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Year 5

Autumn session

300798.1	Sustainability and Risk Engineering
300973.2	Engineering Thesis 1: Preliminary Investigations

BBus professional unit 3

BBus major unit 7

Spring session

301001.1	Engineering Geomechanics
300974.2	Engineering Thesis 2: Detailed Investigations

BBus professional unit 4

BBus major unit 8

Key Program - Electrical

KT3145.1

This program includes core subjects from all branches of electrical engineering. Graduates will work in the fields of electronic components, computers, electro-magnetics, power generation and distribution systems, power and control systems in public utilities, telecommunications, manufacturing, and electrical systems.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure**Full-time - Autumn Intake****Year 1****Autumn session**

200237.4	Mathematics for Engineers 1
300963.1	Engineering Physics

BBus core unit 1
BBus core unit 2

Spring session

200238.2	Mathematics for Engineers 2
300965.1	Engineering Materials

BBus core unit 3
BBus core unit 4

Year 2**Autumn session**

300027.2	Engineering Computing
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BBus professional unit 1
BBus professional unit 2
BBus major unit 1

Spring session

300021.2	Electrical Fundamentals
300463.2	Fundamentals of Mechanics

BBus major unit 2
Bbus major unit 3

Year 3**Autumn session**

300005.2	Circuit Theory
300025.3	Electronics
300057.4	Signals and Systems

300018.2	Digital Systems 1
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Spring session

300076.3	Microprocessor Systems
300481.2	Engineering Electromagnetics
300052.2	Power and Machines
300009.3	Control Systems

Year 4**Autumn session**

300007.2	Communication Systems
300071.2	Electrical Machines 1

BBus major unit 4
BBus major unit 5

Spring session

300771.1	Power Systems
300069.3	Digital Signal Processing

BBus major unit 6
BBus major unit 7

Industrial Experience

300741.2	Industrial Experience (Engineering)
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Year 5**Autumn session**

300772.1	Power Electronics
300973.2	Engineering Thesis 1: Preliminary Investigations

BBus professional unit 3
BBus major unit 8

Spring session

300075.4	Instrumentation and Measurement
300974.2	Engineering Thesis 2: Detailed Investigations
300070.4	Electrical Drives

BBus professional unit 4

Key Program - Mechanical

KT3146.1

In addition to providing training in conventional mechanical engineering subjects, the course structure introduces students to units of study that address sustainability including sustainable design and sustainable energy engineering. Graduates will be well equipped with broad-based skills that meet the demand of Australian industries and are conscious of the need to promote sustainable design and practices. Examples include mechanical and machinery design; manufacturing; energy production; and marketing and management activities. Skills gained are required in industries such as manufacturing, materials

handling, automobile, aerospace, mining, building services and infrastructure development.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Year 1

Autumn session

200237.4	Mathematics for Engineers 1
300963.1	Engineering Physics

BBus core unit 1
BBus core unit 2

Spring session

200238.2	Mathematics for Engineers 2
300965.1	Engineering Materials

BBus core unit 3
BBus core unit 4

Year 2

Autumn session

300027.2	Engineering Computing
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BBus professional unit 1
BBus professional unit 2
BBus major unit 1

Spring session

300021.2	Electrical Fundamentals
300463.2	Fundamentals of Mechanics

BBus major unit 2
Bbus major unit 3

Year 3

Autumn session

300035.3	Kinematics and Kinetics of Machines
300040.2	Mechanics of Materials
300762.2	Fluid Mechanics
301079.1	Graphics 3: 3D Engineering Specifications and Visualisation

Spring session

300480.2	Dynamics of Mechanical Systems
300735.2	Automated Manufacturing
300760.1	Thermodynamics and Heat Transfer
300761.1	Advanced Mechanics of Materials

Year 4

Autumn session

300764.1	Mechanical Design
300763.1	Advanced Dynamics

BBus major unit 4
BBus major unit 5

Spring session

300759.1	Thermal and Fluid Engineering
300488.4	Numerical Methods in Engineering

BBus major unit 6
BBus major unit 7

Industrial Experience

300741.2	Industrial Experience (Engineering)
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Year 5

Autumn session

300056.4	Robotics
300973.2	Engineering Thesis 1: Preliminary Investigations

BBus professional unit 3
BBus major unit 8

Spring session

301000.2	Computer Aided Engineering
300974.2	Engineering Thesis 2: Detailed Investigations
300487.3	Mechatronic Design

BBus professional unit 4

Key Program - Robotics and Mechatronics

KT3147.1

This program provides the skills necessary for the design of smart machines of all types: cruise control in automobiles, pilotless spacecraft, automated factories and medical telerobotics. The course, accompanied by an extensive and integrated hands-on laboratory program, is essentially concerned with the design of intelligent mechanical systems and automation, and includes the study of robotics, computer control, automated manufacturing, microprocessor applications and machine design. Graduates in the program acquire the combined skills of mechanical and computer/electrical engineering that are needed in leading-edge industries such as aerospace systems, the car industry, automation and robotic applications, biomedical engineering, laser systems, and building materials manufacture.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Year 1

Autumn session

200237.4 Mathematics for Engineers 1
300963.1 Engineering Physics

BBus core unit 1
BBus core unit 2

Spring session

200238.2 Mathematics for Engineers 2
300965.1 Engineering Materials

BBus core unit 3
BBus core unit 4

Year 2

Autumn session

300027.2 Engineering Computing

BBus professional unit 1
BBus professional unit 2
BBus major unit 1

Spring session

300021.2 Electrical Fundamentals
300463.2 Fundamentals of Mechanics

BBus major unit 2
Bbus major unit 3

Year 3

Autumn session

300035.3 Kinematics and Kinetics of Machines
300040.2 Mechanics of Materials
300005.2 Circuit Theory
300018.2 Digital Systems 1

Spring session

300480.2 Dynamics of Mechanical Systems
300735.2 Automated Manufacturing
300052.2 Power and Machines
300044.2 Microcontrollers and PLCs

Year 4

Autumn session

300764.1 Mechanical Design
300763.1 Advanced Dynamics
300025.3 Electronics

BBus major unit 4

Spring session

300043.4 Mobile Robotics

BBus major unit 5

BBus major unit 6
BBus major unit 7

Industrial Experience

300741.2 Industrial Experience (Engineering)

Year 5

Autumn session

300056.4 Robotics
300973.2 Engineering Thesis 1: Preliminary Investigations

BBus major unit 8
BBus professional unit 3

Spring session

300075.4 Instrumentation and Measurement
300974.2 Engineering Thesis 2: Detailed Investigations
300487.3 Mechatronic Design

BBus professional unit 4

Key Program - Construction

KT3151.1

The Construction Key Program consists of core subjects in structural engineering, project management and construction technologies. Graduates will work in the fields of construction, structural design, and project management. Career opportunities include those in the private or public sector on projects covering highways, airports, and residential & commercial buildings.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Bachelor of Engineering (Honours) programs have a common first year structure.

Students choose their key program at the end of first year. Construction engineering students will undertake the units listed below.

Full-time Autumn Intake

Year 2

Autumn session

300738.3 Surveying for Engineers
300040.2 Mechanics of Materials
200486.3 Quantity Surveying 1

From Autumn 2019, students are advised to select the following equivalent unit, 301208 Building Measurement, which will replace 200486 Quantity Surveying 1.

- 301208.1** Building Measurement
300985.2 Soil Mechanics

Spring session

- 300984.1** Pavement Materials and Design
300733.2 Introduction to Structural Engineering
200468.2 Estimating 1

From Spring 2019, students are advised to select the following equivalent unit, 301207 Building Estimates and Tendering, which will replace 200468 Estimating 1.

- 301207.1** Building Estimates and Tendering

And one elective unit

* Elective units must be level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary unit)

Students may transfer to 3691 Bachelor of Engineering Science at the end of Year 2 of study.

Year 3**Autumn session**

- 300732.2** Structural Analysis
300728.3 Construction Planning
300736.2 Concrete Structures (UG)

And one alternate unit

Spring session

- 300730.2** Steel Structures
300727.2 Project Management
301001.1 Engineering Geomechanics

And one alternate unit

Industrial Experience

- 300741.2** Industrial Experience (Engineering)

Year 4**Autumn session**

- 300971.1** Engineering Project 1
200471.4 Construction Technology 5 (Envelope)
300973.2 Engineering Thesis 1: Preliminary Investigations

And one alternate unit

Spring session

- 300972.1** Engineering Project 2
300974.2 Engineering Thesis 2: Detailed Investigations
300725.3 Construction Technology 6 (Services)

And one alternate unit

Alternate Units

Alternate units may be used to complete one of the Specialisation sub-majors listed below.

- 300986.1** Applied Mechanics
300987.1 Composite Structures

- 300988.1** Highway Infrastructure
300990.1 Pile Foundations
300739.2 Timber Structures (UG)
200503.2 Construction Information Systems
300726.2 Estimating 2
200487.3 Quantity Surveying 2
300748.2 Quality and Value Management

Specialisation Sub-majors

- SM3065.1** Structures
SM3068.1 Construction Economics

Optional Electives

- 301158.1** Modern Construction Enterprises
301159.1 Modern Construction Projects

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

- 301089.1** Special Technical Project

Key Program - Construction**KT3152.1**

The Construction Key Program consists of core subjects in structural engineering, project management and construction technologies. Graduates will work in the fields of construction, structural design, and project management. Career opportunities include those in the private or public sector on projects covering highways, airports, and residential & commercial buildings.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure**Full-time - Autumn Intake****Year 2****Autumn session**

- 300738.3** Surveying for Engineers
300040.2 Mechanics of Materials
200486.3 Quantity Surveying 1

From Autumn 2019, students are advised to select the following equivalent unit, 301208 Building Measurement, which will replace 200486 Quantity Surveying 1.

- 301208.1** Building Measurement
300985.2 Soil Mechanics

Spring session

- 300984.1** Pavement Materials and Design
300733.2 Introduction to Structural Engineering
200468.2 Estimating 1

From Spring 2019, students are advised to select the following equivalent unit, 301207 Building Estimates and Tendering, which will replace 200468 Estimating 1.

- 301207.1** Building Estimates and Tendering

And one elective

* Elective units must be level 2 or higher

Students may transfer to 3740 Bachelor of Engineering (Honours) or 3691 Bachelor of Engineering Science at the end of Year 2 of study.

Year 3

Autumn session

- 300732.2** Structural Analysis
300728.3 Construction Planning
300736.2 Concrete Structures (UG)
300666.2 Advanced Engineering Topic 1

Spring session

- 300730.2** Steel Structures
300727.2 Project Management
301001.1 Engineering Geomechanics
300667.2 Advanced Engineering Topic 2

Industrial Experience

- 300741.2** Industrial Experience (Engineering)

Year 4

Autumn session

- 300971.1** Engineering Project 1
300969.1 Advanced Engineering Thesis 1: Preliminary Investigations
200471.4 Construction Technology 5 (Envelope)

And one alternate unit

Spring session

- 300972.1** Engineering Project 2
300970.1 Advanced Engineering Thesis 2: Detailed Investigations
300725.3 Construction Technology 6 (Services)

And one alternate unit

Alternate Units

- 300986.1** Applied Mechanics
300987.1 Composite Structures
300988.1 Highway Infrastructure
300990.1 Pile Foundations
300739.2 Timber Structures (UG)

Optional Electives

- 301158.1** Modern Construction Enterprises
301159.1 Modern Construction Projects

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

- 301089.1** Special Technical Project

Key Program - Construction

KT3153.1

The Construction Key Program consists of core subjects in structural engineering, project management and construction technologies. Graduates will work in the fields of construction, structural design, and project management. Career opportunities include those in the private or public sector on projects covering highways, airports, and residential & commercial buildings.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Full-time - Autumn Intake

Year 2

Autumn session

- 300738.3** Surveying for Engineers
300040.2 Mechanics of Materials
200486.3 Quantity Surveying 1

From Autumn 2019, students are advised to select the following equivalent unit, 301208 Building Measurement, which will replace 200486 Quantity Surveying 1.

- 301208.1** Building Measurement
300985.2 Soil Mechanics

Spring session

- 300984.1** Pavement Materials and Design
300733.2 Introduction to Structural Engineering
200468.2 Estimating 1

From Spring 2019, students are advised to select the following equivalent unit, 301207 Building Estimates and Tendering, which will replace 200468 Estimating 1.

- 301207.1** Building Estimates and Tendering

And one elective unit

*Elective units must be Level 2 or higher

Industrial Experience

- 300741.2** Industrial Experience (Engineering)

Year 3**Autumn session**

300732.2	Structural Analysis
300728.3	Construction Planning
300967.1	Engineering Science Project 1
200471.4	Construction Technology 5 (Envelope)

Spring session

300730.2	Steel Structures
300727.2	Project Management
300968.1	Engineering Science Project 2

And one elective unit

*Elective units must be level 2 or higher

Optional Elective

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

301089.1	Special Technical Project
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Key Program - Civil**KT3154.1**

Civil engineering covers the fields of structural design, geotechnical engineering and water engineering, together with infrastructure design and environmental engineering. Graduates will work in the fields of design, construction and management of engineering structures. Projects may cover residential and commercial buildings, highways and airports, water supply and sewerage schemes, etc. You may be an engineer in private industry, government departments, or in city, municipal or shire councils.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure**Year 2****Autumn session**

300738.3	Surveying for Engineers
300040.2	Mechanics of Materials
300762.2	Fluid Mechanics
300985.2	Soil Mechanics

Spring session

300984.1	Pavement Materials and Design
300733.2	Introduction to Structural Engineering
300737.4	Environmental Engineering
300765.2	Hydraulics

Industrial Experience

300741.2	Industrial Experience (Engineering)
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Year 3**Autumn session**

300732.2	Structural Analysis
300736.2	Concrete Structures (UG)
300967.1	Engineering Science Project 1

From Autumn 2019 students will enrol in

300983.2	Surface Water Hydrology
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Spring session

300730.2	Steel Structures
300968.1	Engineering Science Project 2
200238.2	Mathematics for Engineers 2

And one elective unit

*Elective units must be Level 2 or higher

Note: the following unit will no longer be on offer in this specialisation from Autumn 2019. Students should now enrol in 300983 Surface Water Hydrology in Year 3 Autumn.

300982.2	Transportation Engineering
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Optional Elective

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

301089.1	Special Technical Project
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Key Program - Construction**KT3155.1**

The Construction Key Program consists of core subjects in structural engineering, project management and construction technologies. Graduates will work in the fields of construction, structural design, and project management. Career opportunities include those in the private or public sector on projects covering highways, airports, and residential & commercial buildings.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure**Year 2****Autumn session**

300738.3	Surveying for Engineers
300040.2	Mechanics of Materials
200486.3	Quantity Surveying 1

From Autumn 2019, students are advised to select the following equivalent unit, 301208 Building Measurement, which will replace 200486 Quantity Surveying 1.

301208.1	Building Measurement
300985.2	Soil Mechanics

Spring session

300984.1	Pavement Materials and Design
300733.2	Introduction to Structural Engineering
200468.2	Estimating 1

From Spring 2019, students are advised to select the following equivalent unit, 301207 Building Estimates and Tendering, which will replace 200468 Estimating 1.

301207.1	Building Estimates and Tendering
200238.2	Mathematics for Engineers 2

Industrial Experience

300741.2	Industrial Experience (Engineering)
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Year 3

Autumn session

300732.2	Structural Analysis
300728.3	Construction Planning
300967.1	Engineering Science Project 1
200471.4	Construction Technology 5 (Envelope)

Spring session

300730.2	Steel Structures
300727.2	Project Management
300968.1	Engineering Science Project 2

And one elective unit

*Elective units must be level 2 or higher

Optional Elective

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

301089.1	Special Technical Project
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Key Program - Electrical

KT3156.1

This program includes core subjects from all branches of electrical engineering. Graduates will work in the fields of electronic components, computers, electro-magnetics, power generation and distribution systems, power and control in public utilities, telecommunications, manufacturing, and electrical systems.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Year 2

Autumn session

300005.2	Circuit Theory
300025.3	Electronics
300057.4	Signals and Systems
300018.2	Digital Systems 1

Spring session

300076.3	Microprocessor Systems
300481.2	Engineering Electromagnetics
300052.2	Power and Machines
300009.3	Control Systems

Industrial Experience

300741.2	Industrial Experience (Engineering)
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Year 3

Autumn session

300007.2	Communication Systems
300071.2	Electrical Machines 1
300967.1	Engineering Science Project 1
200238.2	Mathematics for Engineers 2

Spring session

300771.1	Power Systems
300069.3	Digital Signal Processing
300968.1	Engineering Science Project 2

And one elective unit

*Elective units must be level 2 or higher

Optional Elective

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

301089.1	Special Technical Project
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Key Program - Mechanical

KT3157.1

In addition to providing training in conventional mechanical engineering subjects, the course structure introduces students to units of study that address sustainability including sustainable design and sustainable energy engineering. Graduates will be well equipped with broad-

based skills that meet the demand of Australian industries and are conscious of the need to promote sustainable design and practices. Examples include mechanical and machinery design; manufacturing; energy production; and marketing and management activities. Skills gained are required in industries such as manufacturing, materials handling, automobile, aerospace, mining, building services and infrastructure development.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Year 2

Autumn session

300035.3	Kinematics and Kinetics of Machines
300040.2	Mechanics of Materials
300762.2	Fluid Mechanics
200238.2	Mathematics for Engineers 2

Spring session

300480.2	Dynamics of Mechanical Systems
300735.2	Automated Manufacturing
300760.1	Thermodynamics and Heat Transfer
300761.1	Advanced Mechanics of Materials

Industrial Experience

300741.2	Industrial Experience (Engineering)
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Year 3

Autumn session

300764.1	Mechanical Design
300763.1	Advanced Dynamics
300967.1	Engineering Science Project 1

And one elective unit

*Elective units must be level 2 or higher

Spring session

300759.1	Thermal and Fluid Engineering
300488.4	Numerical Methods in Engineering
300968.1	Engineering Science Project 2
301079.1	Graphics 3: 3D Engineering Specifications and Visualisation

Optional Elective

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

301089.1	Special Technical Project
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Key Program - Robotics and Mechatronics

KT3158.1

This program provides the skills necessary for the design of smart machines of all types: cruise control in automobiles, pilotless spacecraft, automated factories and medical telerobotics. The course, accompanied by an extensive and integrated hands-on laboratory program, is essentially concerned with the design of intelligent mechanical systems and automation, and includes the study of robotics, computer control, automated manufacturing, microprocessor applications and machine design. Graduates in the program acquire the combined skills of mechanical and computer/electrical engineering that are needed in leading-edge industries such as aerospace systems, the car industry, automation and robotic applications, biomedical engineering, laser systems, and building materials manufacture.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Year 2

Autumn session

300035.3	Kinematics and Kinetics of Machines
300040.2	Mechanics of Materials
300005.2	Circuit Theory
300018.2	Digital Systems 1

Spring session

300480.2	Dynamics of Mechanical Systems
300735.2	Automated Manufacturing
300052.2	Power and Machines
300044.2	Microcontrollers and PLCs

Industrial Experience

300741.2	Industrial Experience (Engineering)
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Year 3

Autumn session

300764.1	Mechanical Design
300763.1	Advanced Dynamics
300056.4	Robotics
300967.1	Engineering Science Project 1

Spring session

300043.4	Mobile Robotics
300968.1	Engineering Science Project 2
200238.2	Mathematics for Engineers 2

And one elective unit

* Elective units must be level 2 or higher

Optional Elective

The following unit is an optional elective unit offered to students who are engaged in a School approved project. This unit can be taken during the third year of this course, however, permission is required to enrol in the unit.

301089.1 Special Technical Project

Key Program - Civil

KT7000.1

Location

Campus Mode

Online Multi Modal

Specialisation Structure

Choose three of the following units

- 700111.2** Fluid Mechanics (WSTC AssocD)
- 700115.2** Introduction to Structural Engineering (WSTC AssocD)
- 700102.2** Mathematics for Engineers 2 (WSTC AssocD)
- 700116.2** Mechanics of Materials (WSTC AssocD)
- 700239.1** Pavement Materials and Design (WSTC AssocD)
- 700245.1** Soil Mechanics (WSTC AssocD)
- 700120.2** Surveying for Engineers (WSTC AssocD)

Key Program - Electrical

KT7001.1

Location

Campus Mode

Online Multi Modal

Specialisation Structure

Choose three of the following units

- 700243.1** Circuit Theory (WSTC AssocD)
- 700240.1** Digital Systems 1 (WSTC AssocD)
- 700242.1** Electronics (WSTC AssocD)
- 700102.2** Mathematics for Engineers 2 (WSTC AssocD)
- 700241.1** Signals and Systems (WSTC AssocD)

Key Program - Mechanical

KT7002.1

Location

Campus Mode

Online Multi Modal

Specialisation Structure

Choose three of the following units

- 700111.2** Fluid Mechanics (WSTC AssocD)
- 700244.1** Kinematics and Kinetics of Machines (WSTC AssocD)
- 700102.2** Mathematics for Engineers 2 (WSTC AssocD)
- 700116.2** Mechanics of Materials (WSTC AssocD)

Key Program - Robotics and Mechatronics

KT7003.1

Location

Campus Mode

Online Multi Modal

Specialisation Structure

Students must complete three units as follows

Choose at least one of the following units

- 700244.1** Kinematics and Kinetics of Machines (WSTC AssocD)
- 700116.2** Mechanics of Materials (WSTC AssocD)

and choose either one or two of the following units depending on how many units have been completed from the list above.

- 700243.1** Circuit Theory (WSTC AssocD)
- 700240.1** Digital Systems 1 (WSTC AssocD)
- 700242.1** Electronics (WSTC AssocD)
- 700102.2** Mathematics for Engineers 2 (WSTC AssocD)

Major - Indigenous Australian Studies

M1041.1

What does it mean to live in Indigenous Australia? The Indigenous Australian Studies Major offers students the exciting opportunity to acquire key cultural competencies that will enable them to understand and work more effectively with Indigenous Australians in professions such as the arts, communications, media industries; education; government and non-government; policy; health; sciences; and community services. The Indigenous Australian Studies Major addresses the cultural, historical, social and

economic issues affecting Indigenous and Non-Indigenous Australians and relationships.

Location

Campus	Mode
Bankstown Campus	Internal
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must complete 80 credit points as follows
Students must complete the following Level 1 unit

101751.2 Contextualising Indigenous Australia (Day Mode)

Choose seven of the following units including three Level 3 units

Level 1 units

101878.2 Indigenous Landscapes
101762.1 Who do you think you are? (Day Mode)

Level 2 units

101754.3 From Corroborees to Curtain Raisers (Day Mode)
101755.2 From Ochre to Acrylics to New Technologies
101752.2 Pigments of the Imagination
101753.3 Revaluing Indigenous Economics (Day Mode)

Level 3 units

101756.2 Bridging the Gap: Re-engaging Indigenous Learners
100961.4 Humanities Internship
101758.2 Learning through Indigenous Australian Community Service (Day Mode)
101759.2 Rethinking Research with Indigenous Australians: Independent Study Project (Day Mode)
101757.2 The Making of the 'Aborigines'

Major - Cultural and Social Analysis

M1052.1

Cultural and Social Analysis is an interdisciplinary major developing knowledge, research skills and analytic capacities relevant to understanding and interpreting landscapes of cultural diversity and social difference in our contemporary world, both in terms of the broad contours, as well as specific micro-social environments. This major provides grounding in contemporary debates and methodologies in cultural studies and social theory, and draws on various disciplines including history, sociology, communications, and linguistics. Topics include popular culture, everyday urban life, cultural and social impacts of scientific theories and new technologies, multiculturalism, and contemporary spirituality. Study in this area is relevant

for work involving commentary and analysis of contemporary social issues and cultural practices (e.g. journalism, teaching, activism) and fields concerned with designing, delivering and evaluating cultural and artistic productions, and education, communication, welfare or health services, in culturally diverse communities.

Location

Campus	Mode
Bankstown Campus	Internal
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must successfully complete 80 credit points as follows

Please note all Bachelor of Arts students including Pathways to Teaching, Dean's Scholars and double degrees must complete the structure under the heading Bachelor of Arts.

Please note all Bachelor of Creative Industries students including double degrees must complete the structure under the heading Bachelor of Creative Industries.

This specialisation is available to students in other Western Sydney University courses. If the specialisation is available on your campus, the course structure allows space for enrolment in the specialisation and pre-requisite requirements can be met, please follow the structure under the heading Bachelor of Arts. Consult your Course Advisor for further advice.

Note: Not all units will be offered each year. Units will be offered on a rotational basis.

Bachelor of Arts Students

Arts students must complete the four compulsory units below and must complete four units from the Level 2/Level 3 unit pool with a minimum of 2 units at Level 3. See below.

Compulsory Units

102410.2 Digital Cultures
100897.2 Everyday Life
101906.2 Researching Culture
101979.1 Understanding Visual Culture

Bachelor of Creative Industries Students

Creative Industries students must complete their Introduction to Major unit as part of the core requirements of the course, prior to enrolling in this major.

100897.2 Everyday Life

Creative Industry students must complete the three compulsory units below and must complete five units from the Level 2/Level 3 unit pool with a minimum of 2 units at Level 3. See below.

Compulsory Units

102410.2 Digital Cultures
101906.2 Researching Culture
101979.1 Understanding Visual Culture

Pool Units

Bachelor of Arts students must complete four units from the list below, with a minimum of 2 units at Level 3. Bachelor of Creative Industries students must complete five units from the list below, with a minimum of 2 units at Level 3.

Note: Not all units will be offered each year. Units will be offered on a rotational basis.

Level 2 Unit Pool

102192.1	Cinema and Censorship
101967.1	Cultural History of Books and Reading
101250.3	Digital Futures
102425.1	Digital Humanities and Research Methods (UG)
100964.3	Introduction to Film Studies
100882.3	Politics of Sex and Gender
101917.1	Representing Everyday Life in Literary and Visual Cultures
101990.1	The Racial State
101989.1	Thinking Cinema
100291.5	Urban Life/Urban Culture
100298.3	Youth Cultures and Moral Panics

Level 3 Unit Pool - Choose at least two

101981.1	Activism, Engagement and Social Change
101265.3	Children's Culture
101626.5	Children's Literature: Image and Text
101984.1	Cinema and Experience
101870.1	Climate Change and Culture
102413.1	Consumer Culture
102185.1	Culture, Discourse and Meaning
102479.1	Cultures of Crime and Punishment
102529.1	Cyber Justice (UG)
100996.3	Death and Culture
100860.3	Emotions, Culture and Community
100866.3	Film and Drama
102305.1	Food: A Cultural History
101716.3	Healing and Culture
101991.1	History of Sexuality
101988.1	Human Rights and Culture
100961.4	Humanities Internship
101468.2	Islam, Media and Conflict
101985.1	Politics, Power and Resistance
101987.1	Postcolonial Australian Cinema
102191.1	Queer Culture
101005.4	Representing Crime
101009.4	The Body in Culture
101848.1	Transnationalism and Migration
101731.3	Understanding Power
101898.1	Violence in Everyday Life
101010.3	What is the Human?

Please note

The Level 2 and 3 units listed below count towards completion of the major for students from 2015 or earlier, who may have previously passed these units.

Level 2 units

101409	- Aboriginal Cultural Texts
101408	- Critical Discourse Analysis
100854	- Contemporary Popular Cultures

SS238A - Genres

101251	- Introduction to Psychoanalysis
100273	- New Ethnicities, Old Racisms
G2006	- Race, Community and National Identity in Australia
100884	- Social Inequalities
100886	- Special Topics in Cultural and Social Analysis
100889	- Technocultures
10371	- The Art Museum-from the Prince to the Public
101411	- Theories of Representation
101879	- Women with Muslim Identity

Level 3 units

101295	- Aesthetics
400087	- Applied Critical Methods
100988	- Chaos and Communication
100990	- Cinema, Culture, Memory
100992	- Communication: Power and Practice
100994	- Consumer Culture
100858	- Culture and Globalisation
100998	- Evolutionary Thinking
101844	- Feminist Theories
100999	- Gender at Work
101955	- Honours Foundation
101739	- Literature and Trauma
101732	- Media, The Everyday and Uneven Modernities
101800	- Media, Violence, Protest, Terror
101252	- Psychoanalytic Criticism
101253	- Public Memory and Commemoration
101003	- Religion and Culture
101006	- Social Semiotics
101007	- Story Links and Indigenous Knowledge
101832	- Talking Normal: Sociolinguistics and Modern Literature
101008	- Technologies of Racism
101738	- The Art Game: Fraud, Forgery, Theft and Perfidy
101798	- Understanding Freedom

Major - English**M1053.1**

The English major invites students to explore contemporary approaches to language, literary study and writing, including literary criticism and theory, linguistic analysis, genre and textual study, and creative writing. The English major focuses on the imaginative workings of language, and students can study a wide selection of modern and classic literature, as well as the relationships between written texts and other media such as film and information technology. Students also have the opportunity to produce their own creative writing and to edit and publish their work. Career prospects include publishing, editing, teaching, writing and advertising.

Location

Campus	Mode
Bankstown Campus	Internal
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must successfully complete 80 credit points as follows.

Please note all Bachelor of Arts students including Pathways to Teaching, Dean's Scholars and double degrees must complete the structure under the heading Bachelor of Arts.

Please note all Bachelor of Creative Industries students including double degrees must complete the structure under the heading Bachelor of Creative Industries.

This specialisation is available to students in other Western Sydney University courses. If the specialisation is available on your campus, the course structure allows space for enrolment in the specialisation and pre-requisite requirements can be met, please follow the structure under the heading Bachelor of Arts. Consult your Course Advisor for further advice.

Note: Not all units will be offered each year. Units will be offered on a rotational basis.

Bachelor of Arts Students

Arts students must complete the four compulsory units below and must complete four units from the Level 2 / Level 3 unit pool with a minimum of 2 units at Level 3. See below.

Compulsory units

100641.3	Approaches to Text
101976.2	English Literature After 1830
101907.1	Introduction to Literary Studies
101909.1	Methods of Reading

Bachelor of Creative Industries Students

Creative Industries students must complete their Introduction to Major unit as part of the core requirements of the course, prior to enrolling in this major.

101907.1	Introduction to Literary Studies
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Creative Industry students must complete the three compulsory units below and must complete five units from the Level 2 / Level 3 unit pool with a minimum of 2 units at Level 3. See below.

Compulsory units

100641.3	Approaches to Text
101976.2	English Literature After 1830
101909.1	Methods of Reading

Pool Units

Bachelor of Arts students must complete four units from the list below, with a minimum of 2 units at Level 3. Bachelor of Creative Industries students must complete five units from the list below, with a minimum of 2 units at Level 3.

Note: Not all units will be offered each year. Units will be offered on a rotational basis.

Level 2 Unit Pool

100900.4	Comedy and Tragedy
101967.1	Cultural History of Books and Reading
100584.2	Experimental Writing and Electronic Publication
100964.3	Introduction to Film Studies
102572.1	Literature and Decolonisation
101978.1	Modern Australian Poetry and Poetics
101917.1	Representing Everyday Life in Literary and Visual Cultures
101964.1	Sexual/Textual Politics in Victorian Women's Writing
102507.1	The Gothic
101795.3	The Musical
102414.1	Working Grammar
100896.3	Writing Fiction

Level 3 Unit Pool

101796.1	19th Century American Literature
102099.1	20th Century American Literature
100849.4	Australian Textual Studies
102205.1	Children's and Young Adult Fiction
101626.5	Children's Literature: Image and Text
101984.1	Cinema and Experience
100856.4	Creative Non-Fiction
100859.3	Creative Writing Project
102315.1	Crime Fiction
102185.1	Culture, Discourse and Meaning
100866.3	Film and Drama
100961.4	Humanities Internship
102186.1	Introduction to Stylistics
102416.1	Law, Literature and Culture
101724.2	Literary Animals
100875.4	Literature and Philosophy
101739.3	Literature and Trauma
101033.4	Modernism
101001.3	Modernity and Cinema
102434.1	Postcolonial Literatures: Partition, Dependence and Exile
101650.3	Race in Literature
102078.1	Reading Ireland in the 1990s: Fiction, Poetry, Drama
101005.4	Representing Crime
101791.2	Short Fiction in the Americas
100893.4	The Novel
101880.1	The Space of Literature
101977.1	Women, Travel and Empire
102374.1	Women's Writing
101669.3	World Literature in Translation
101908.1	Writing and Reading Sci Fi and Fantasy
101670.3	Writing and Society
100895.4	Writing For Performance
101011.3	Writing Poetry

Note: The Level 3 unit 100961 Humanities Internship cannot count towards completion of SM1129 English Teaching Specialisation (Birth-5/Birth-12) or M1126 Education Studies Major - Primary English Teaching Specialisation for students enrolled in courses 1708 Bachelor of Arts (Pathway to Teaching Birth - 5/Birth - 12), 1651 Bachelor of Arts (Pathway to Teaching Primary), 1822 Bachelor of Arts (Pathway to Teaching Primary) Dean's Scholars, 6017 Diploma in Arts/Bachelor of Arts (Pathway to Teaching Birth-5/Birth-12), 6019 Diploma in Arts/Bachelor of Arts (Pathway to Teaching Primary) as this would not satisfy the professional accreditation requirements for NESA.

Please note

The Level 2 and 3 units listed below count towards completion of the major for students from 2016 or earlier, who may have previously passed these units.

Level 2 units

101408 - Critical Discourse Analysis
100993 - Constructions of the Script
SS238A - Genres
101452 - History of the English Language
100870 - Hypertext Fictions
101986 - International Texts and Contexts
100880 - Poetry and Poetics
100505 - Special Topics in English, Text and Writing
101869 - Studies in Postcolonial Literature
101873 - The Sound of Language
101455 - The Structure of English

Level 3 units

100845 - American Literature
400087 - Applied Critical Methods
101242 - Childrens Literature
100256 - Film and Affect
101000 - hom/e/scapes
101955 - Honours Foundation
100874 - Literature, History and Culture
101966 - Literatures of Decolonisation
101406 - Queering Text
101006 - Social Semiotics
101832 - Talking Normal: Sociolinguistics and Modern Literature
101453 - Text and Discourse in English
101668 - World Cinema
101471 - Women in Arabic and Islamic Literature
100582 - Writing Portfolio

Major - History and Political Thought

M1054.1

Since the revival of humanist thought in the Renaissance, universities have placed studies in history and political thought at the centre of exploring what it is to be human. At

the heart of the History and Political Thought major are four compulsory units which introduce the student to the modern (since 1500) history of humanity. Although Europe is very prominent in the Major, the student will be invited to compare its history to the histories of Asia, Africa and the Americas. The Major culminates in a capstone unit in students' final semester discussing historical theories and methods. A wide range of elective units covers European, American, Australian and Asian history and political thought and includes thematic units which range widely over time and place.

Location

Campus	Mode
Bankstown Campus	Internal
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must successfully complete 80 credit points from the units listed below, with no less than three Level 3 units.

Students must complete the following compulsory units

101910.1	Global History
102000.1	Modern European History and Politics
101992.1	Religion and the Emergence of Modern Politics
102001.1	Theories and Methods of History

Note: Not all Level 2 and 3 pool units will be offered each year. Units will be offered on a rotational basis.

Level 2 Unit Pool

101882.1	A History of Modern Global Buddhism
100244.2	Ancient Western Culture: Periclean Athens
101973.1	Australian Politics
101967.1	Cultural History of Books and Reading
100861.3	Empire: European Colonial Rule and its Subjects, 1750-1920
100001.3	Keeping the Past
101797.2	Political Terror
100882.3	Politics of Sex and Gender
102002.1	Religion and the Origins of Modern Science
101867.2	The Ethical Life
101912.1	Western Political Philosophy

Level 3 Unit Pool

100985.2	American Foreign Policy Since 1945
100966.3	American History, 1898-1945
102004.1	Australian Colonial History
102516.1	Australian History Around Us
101872.1	Australian Indigenous History from Federation to Reconciliation
101919.1	Australian Indigenous History: From first contact to 'dying race'
102079.1	Britain in the Age of Botany Bay, 1760-1815
102492.1	Catastrophe: The Environmental History of the Ancient and Modern World
102003.1	Comparative Nationalism
101799.2	Convicts and Settlers - Australian History 1788 - 1840
100903.2	Democracy in Asia

- 102188.1** Dictators, Democrats and Dreamers: Indonesia 1942 to now
- 101974.1** Enlightenment and Revolution
- 102007.1** Ethics in Historical Perspective
- 100254.3** Exploring Local History
- 102305.1** Food: A Cultural History
- 102520.1** From Vindication to Liberation: A Comparative History of Feminism
- 101735.2** Global Politics
- 102006.2** Histories of Crime and Punishment
- 101991.1** History of Sexuality
- 100507.4** History of Modern China to 1949
- 102184.1** History of Muslim Civilisations and Ideas
- 100961.4** Humanities Internship
- 101988.1** Human Rights and Culture
- 102522.1** International Study Tours
- 101733.2** Looking at Global Politics Through Film
- 100271.3** Modern Japanese History
- 102495.1** Mystical Islam: The Emergence of Sufism in World History
- 102343.1** Napoleon: the Making of a Legend
- 102493.1** Philosophy of History
- 100278.2** Politics of Post-War Japan
- 101985.1** Politics, Power and Resistance
- 63178.2** Social and Political Developments in Contemporary China
- 102187.1** Sultans, Colonists and Nationalists: Indonesia C1200-1942
- 101782.2** The History and Politics of Contemporary Central Asia
- 102491.1** The History of Southeast Asia
- 101783.2** The International Relations of the Middle East Since 1945
- 102005.1** The Politics of Civilisation
- 101913.1** Theories of Authority
- 100969.2** Theories of Conflict and Violence
- 101999.1** Twentieth Century Australia
- 101798.2** Understanding Freedom
- 101731.3** Understanding Power
- 101866.1** United States Government and Politics
- 102423.1** War
- 101993.1** War and Society in the Twentieth Century
- 102142.1** Warlords, Artists and Emperors: Power and Authority in Japanese History
- 101830.2** WWII in Asia and the Pacific
- 101010.3** What is the Human?
- 100904 - Politics and Business in Asia
- 100277 - Politics of Australia and Asia Relations
- 101972 - The History of Modern Indonesia
- 101294 - The Western Philosophical Tradition
- 100892 - The Westminster System: England's Constitutional Culture
- 101871 - War
- Level 3**
- 101295 - Aesthetics
- 100957 - Alternative Histories: The State and Civil Society in Australian History
- 100987 - Australian History Since 1920
- 100991 - Citizenship Ancient and Modern
- 100992 - Communication: Power and Practice
- 101249 - Culture and Thought in Twentieth-Century China
- 100860 - Emotions, Culture and Community
- 100864 - Europe in the Twentieth Century
- 101844 - Feminist Theories
- 101674 - Global Histories of Food
- 100963 - Interpreting Australia: Australian Historians and Historiography
- 101801 - Interpreting Fascism
- 101823 - Lay Participation in Justice Processes (replaced by 102006)
- 100875 - Literature and Philosophy
- 100275 - Philosophies of Love and Death
- 100879 - Philosophy Today
- 100908 - Race Politics
- 100284 - Special Topics in Australian History
- 100887 - Sport and Australian History
- 101667 - The External Relations of the European Union
- 101405 - The Politics of Contemporary Indonesia
- 101831 - Transport and the Making of the Modern World
- 101375 - War and Peace
- 100971 - Which New World Order?
- 100894 - World War 1

Please note

The Level 2 and Level 3 units listed below count towards completion of the major for students who may have passed units in the list in 2015 or earlier.

Level 2

- 101737 - World Politics: An Introduction
- 100248 - Australian Labour History
- 101407 - Britain 1500-1800: Before Botany Bay
- 100852 - Classics of Modern Philosophy
- 100853 - Contemporary Australia
- 100869 - Foundations of Modern Europe 1500-1800
- 101543 - India: Global Contexts
- 100878 - Meanings of a Commonwealth - English Political Ideas 1500-1800
- 101843 - Philosophy and Environment

Major - International Relations and Asian Studies**M1055.1**

This major has been designed to meet the needs of Australian government, business and society to engage the states and peoples of Asia at all levels in pursuit of national interests and as part of the globalisation process. It provides students with the opportunity to study contemporary Asia, as well as the rich and diverse histories, politics, cultures and languages of Asian countries and the international issues affecting Australia's interests and role in the region and in the world at large. The major area also includes a range of units concerned with the United States and Europe as well as with Asia itself, and units in international relations covering other parts of the world. It seeks to produce graduates with a broad, liberal

education with the skills to mediate between Australia and the world in general and Asia in particular through political, economic, commercial, cultural, diplomatic and strategic links. Students are encouraged to undertake a sub-major in an Asian language in conjunction with the major.

Employment opportunities may be found in the State and Commonwealth public service, overseas organisations, the media, business and industry, education and research.

Location

Campus	Mode
Bankstown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

This major may be able to be studied entirely online, depending on student unit selection.

Students must complete the following compulsory units

101442.2	Asia in the World
101956.1	Introduction to International Relations
100277.4	Politics of Australia and Asia Relations
101957.2	The Asian Century

And four units from the following pools, with no less than three Level 3 units in order to pass the major.

Note: Not all units will be offered each year. Units will be offered on a rotational basis.

Level 2 Unit Pool

101882.1	A History of Modern Global Buddhism
101968.1	Civil Society in Contemporary China
100861.3	Empire: European Colonial Rule and its Subjects, 1750-1920
101797.2	Political Terror

Level 3 Unit Pool

100985.2	American Foreign Policy Since 1945
100903.2	Democracy in Asia
102188.1	Dictators, Democrats and Dreamers: Indonesia 1942 to now
101735.2	Global Politics
100507.4	History of Modern China to 1949
100961.4	Humanities Internship
102189.1	International Organisations and Global Governance
102190.1	International Relations of Southeast Asia
102193.1	International Special Study
102522.1	International Study Tours
101467.2	Islam in Southeast Asia
101733.2	Looking at Global Politics Through Film
100271.3	Modern Japanese History
100278.2	Politics of Post-War Japan
63178.2	Social and Political Developments in Contemporary China
102187.1	Sultans, Colonists and Nationalists: Indonesia C1200-1942
102491.1	The History of Southeast Asia
101783.2	The International Relations of the Middle East Since 1945
102005.1	The Politics of Civilisation
101866.1	United States Government and Politics

102423.1	War
102142.1	Warlords, Artists and Emperors: Power and Authority in Japanese History
101830.2	WWII in Asia and the Pacific

Please note

The units listed below count towards completion of the major for students who may have passed units in the list in 2015 or earlier.

101737 - World Politics: An Introduction (Level 1)

Level 2

100872 - Asia and the West: the Imperial Encounter
100245 - Asian Cinema
100850 - Buddhism in the Contemporary World
100855 - Contemporary Japan: Culture and Society
101857 - Doing Business in China
100847 - International Politics of North Asia
100904 - Politics and Business in Asia
63111 - Special Topics in Asian and International Studies
101972 - The History of Modern Indonesia
101871 - War

Level 3

400087 - Applied Critical Methods
101249 - Culture and Thought in Twentieth Century China
101543 - India: Global Contexts
100962 - International Politics of the South East Asia Region
101667 - The External Relations of the European Union
101963 - Understanding Global Insecurity
101375 - War and Peace
100971 - Which New World Order?

Major - Islamic Studies

M1056.1

Students engage in interdisciplinary study essential to an understanding of Islam, past and present. The area of study balances historical and modern Islamic studies and research methods. One of the keys to Islamic Studies is 'relevance' to contemporary Australian society but relevance can only come from a sound comprehension of past traditions in Islamic scholarship and their socio-historical contexts. Preparation for graduate study is also a key objective of this program, with its focus on developing critical and interdisciplinary research skills through a combination of approaches. Students are encouraged to undertake a sub-major in Arabic to complement the Islamic Studies major.

Location

Campus	Mode
Bankstown Campus	Internal

Specialisation Structure

This major may be able to be studied entirely online, depending on student unit selection.

Students must successfully complete 80 credit points from the units listed below, with no less than three level 3 units.

Students must complete the following four compulsory units:

102296.1	Hadith: The Prophetic Tradition
101465.2	Islamic Law in a Changing World
101911.2	The Qur'an: An Introduction
101462.2	Understanding Islam and Muslim Societies

The remaining four units must be drawn from the following Level 2 and 3 unit pools

Note: Not all units will be offered each year. Units will be offered on a rotational basis.

Level 2 units

102294.1	Islam in the Modern World
101879.2	Women with Muslim Identity

Level 3 Units

102494.1	Conceptualising Islam
101466.2	Ethical Traditions in Islam
102184.1	History of Muslim Civilisations and Ideas
100961.4	Humanities Internship
101822.3	Islam in the West
101467.2	Islam in Southeast Asia
101468.2	Islam, Media and Conflict
102297.1	Islamic Revivalism in the Globalised World
102495.1	Mystical Islam: The Emergence of Sufism in World History
101359.5	Sociology of Religion
101783.2	The International Relations of the Middle East Since 1945

Please note

The Level 2 and Level 3 units listed below count towards completion of the major for students who passed any of these units in 2015 or earlier.

Level 2

101464 - Great Texts of Islam: Quran and Hadith
100273 - New Ethnicities, Old Racisms

Level 3

101688 - Anthropology of Religion
400087 - Applied Critical Methods
101463 - Islam in the Modern World
100877 - Multicultural Studies
101792 - Texts in Contemporary Arab Society and Culture
101471 - Women in Arabic and Islamic Literature

Major - Philosophy

M1058.1

Philosophy has always asked the "big questions" about our lives. These are questions, for example, about the limits of

our knowledge, the best way that humans can live together, how we understand the world around us, and what is the good life. A philosophy major will enable students to develop particular skills and attributes - such as clear thinking, capacities to assess arguments and values, sound understanding of important philosophical views that have always been essential to university scholarship, and which continue to be valuable for graduates in both public and private life.

Location

Campus	Mode
Bankstown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must complete the following compulsory units

102570.1	Books that Changed how we Think
101915.1	Ethics and Philosophy
101918.1	Introduction to Philosophy
102571.1	Thinkers That Changed the World

Plus four units from the following pools with no fewer than two Level 3 units.

Note: Not all units will be offered each year. Units will be offered on a rotational basis.

Level 2 Pool Units

100244.2	Ancient Western Culture: Periclean Athens
101881.2	Philosophy and the Good Life
101867.2	The Ethical Life
101989.1	Thinking Cinema
101983.1	Truth and Knowledge
101912.1	Western Political Philosophy

Level 3 Pool Units - Choose at least two

101295.2	Aesthetics
102420.1	Classics of Modern Philosophy
102007.1	Ethics in Historical Perspective
100961.4	Humanities Internship
100875.4	Literature and Philosophy
100275.4	Philosophies of Love and Death
102417.1	Philosophy and Environment
102493.1	Philosophy of History
101965.1	Philosophy of Religion
100969.2	Theories of Conflict and Violence
101913.1	Theories of Authority
101798.2	Understanding Freedom
101731.3	Understanding Power
101010.3	What is the Human?

Please note

The Core units and the Level 2 and 3 pool units listed below count towards completion of the major for students who may have passed units in the list below in 2017 or earlier.

Core units

101914 - Case Studies in Philosophy: Thinker
101916 - Case Studies in Philosophy: Text

102415 - Key Philosophers
102419 - Philosophy in Focus

Level 2

101843 - Philosophy and Environment
100852 - Classics of Modern Philosophy

Level 3

101844 - Feminist Theories

Major - Arabic**M1059.1**

Language specialisations aim to enable students to develop an appropriate level of proficiency in a second language, which may be used for professional purposes such as teaching, interpreting and translation, business or international relations. Students undertaking a language specialisation will be able to use the language in question according to its grammatical and pragmatic principles, communicate with native speakers appropriately in the spoken as well as the written mode, and demonstrate an understanding of the cultures and societies associated with the language.

Location

Campus	Mode
Bankstown Campus	Internal

Specialisation Structure

There are three entry levels into language majors. Beginner's level is for those with no previous study or minimal study of the language. Intermediate level is typically for students who: are non-native speakers with study of the language to HSC 2 Unit level or have a home background in the language but no comprehensive formal study, or who speak a non-standard variety (e.g. dialect). Post-Intermediate level is typically for students who are non-native speakers with substantial formal study and near-native competence; or are literate native speakers of a standard variety. Students should consult with the Languages staff regarding the progression sequence that best fits their level of skill. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher or lower class. Students may consult with the Languages Academic Course Advisor, if they are unsure of their entry level. Students should avoid enrolling in units at different levels at the one time (e.g. you should not enrol in Arabic 201 and 301 at the same time). Please check the current timetable as some units may not be offered every year. Advanced (Level 3) units may be offered on a rotational basis.

A major in Arabic comprises a sequence of 80 credit points with 60 credit points at Level 2 and 3 (with no less than 30 credit points of these at Level 3), however students commencing at beginner's level, that is units 101 and 102, and who follow the recommended course structure, are only required to complete 20 credit points at Level 3.

Students should take units that reflect their level of competence in the language and they should not backtrack, i.e. they must not:

- take a Level 1 unit after passing a Level 2 unit in the same language; or
- take a Level 2 unit after passing a Level 3 unit in the same language.

Level 1 units

100041.2 Arabic 101
100042.2 Arabic 102

Level 2 units

102019.1 Arabic 201
102020.1 Arabic 202
102021.1 Arabic 203
102022.1 Arabic 204

Level 3 units

101949.2 Arabic 301
100048.2 Arabic 302 - Arabic Advanced Language and Grammar
100049.2 Arabic 303: Advanced Writing Skills
100050.2 Arabic 304: Arabic Advanced Speaking
100052.2 Arabic 306: Arabic Novel and Short Story
100054.2 Arabic 308: Language Past and Present
101950.1 Intercultural Communication
100201.3 Special Study in Languages and Linguistics

Advanced entry level Arabic students may complete the following Level 1 pool units. The units will be recognised as Level 3 pool units for the purpose of specialisation completion.

100194.2 Introduction to Interpreting
100195.2 Introduction to Translation

Please note

The Level 2 and 3 units listed below count towards completion of the major for students who may have passed units in the list below in 2015 or earlier.

100051 - Arabic 305: Arabic Contemporary Poetry
101454 - Intercultural Pragmatics
101699 - Language and Communication Skills 2A: Arabic
101704 - Language and Communication Skills 2B: Arabic
101709 - Languages and Grammatical Concepts 3A: Arabic
101792 - Texts in Contemporary Arab Society and Culture
101668 - World Cinema

Inherent Requirements

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

Major - Chinese

M1060.1

Language majors aim to enable students to develop an appropriate level of proficiency in a second language which may be used for professional purposes such as teaching, interpreting and translation, business or international relations. Students undertaking a language major will be able to use the language in question according to its grammatical and pragmatic principles, communicate with native speakers appropriately in the spoken as well as the written mode, and demonstrate an understanding of the cultures and societies associated with the language.

Location

Campus	Mode
Bankstown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

There are Inherent Requirements for this major, please check the information online.

There are three entry levels into language majors. Beginner's level is for those with no previous study or minimal study of the language. Intermediate level is typically for students who: are non-native speakers with study of the language to HSC 2 Unit level or have a home background in the language but no comprehensive formal study, or who speak a non-standard variety (eg dialect). Post-Intermediate level is typically for students who are non-native speakers with substantial formal study and near-native competence; or are literate native speakers of a standard variety. Students should consult with the Languages staff regarding the progression sequence that best fits their level of skill. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher or lower class. Students may consult with the Languages Course Advisor, if they are unsure of their entry level. Students should avoid enrolling in units at different levels at the one time (eg: you should not enrol in Chinese 201 and 301 at the same time). Please check the current timetable as some units may not be offered every year. Advanced (Level 3) units may be offered on a rotational basis.

A major in Chinese comprises a sequence of 80 credit points with 60 credit points at Level 2 and 3 (with no less than 30 credit points of these at Level 3), however students commencing at beginners level, that is units 101 and 102, and who follow the recommended course structure, are only required to complete 20 credit points at Level 3.

Students should take units that reflect their level of competence in the language and they should not backtrack, i.e. they must not:

- take a Level 1 unit after passing a Level 2 unit in the same language; or
- take a Level 2 unit after passing a Level 3 unit in the same language.

Level 1 units

100056.2	Chinese 101
100057.2	Chinese 102

Level 2 units

102024.1	Chinese 201
102025.1	Chinese 202
102026.1	Chinese 203
102027.1	Chinese 204

Level 3 units

101951.1	Chinese 301
100063.2	Chinese 302
100064.2	Chinese 303: Twentieth-Century Chinese Literature
100065.2	Chinese 304: Chinese Classical Literature
100066.2	Chinese 305: Chinese Cinema
100510.2	Chinese 306: Traditional Chinese Thought
100067.2	Chinese 307: The Cultural Context of China
101950.1	Intercultural Communication
100201.3	Special Study in Languages and Linguistics

Advanced entry level Chinese students may complete the following Level 1 pool units. The units will be recognised as Level 3 pool units for the purpose of specialisation completion.

100194.2	Introduction to Interpreting
100195.2	Introduction to Translation

Please note

The Level 2 and Level 3 units listed below count towards completion of the major for students who may have passed units in the list below in 2015 or earlier.

- 400087- Applied Critical Methods
- 101454 - International Pragmatics
- 101710 - Languages and Grammatical Concepts 3A: Chinese
- 101668 - World Cinema

Inherent Requirements

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

Major - Japanese

M1062.1

Language majors aim to enable students to develop an appropriate level of proficiency in a second language which may be used for professional purposes such as teaching, interpreting and translation, business or international relations. Students undertaking a language major will be able to use the language in question according to its grammatical and pragmatic principles, communicate with native speakers appropriately in the spoken as well as the

written mode, and demonstrate an understanding of the cultures and societies associated with the language.

Location

Campus	Mode
Bankstown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

There are Inherent Requirements for this major, please check the information online.

There are three entry levels into language majors. Beginner's level is for those with no previous study or minimal study of the language. Intermediate level is typically for students who: are non-native speakers with study of the language to HSC 2 Unit level or have a home background in the language but no comprehensive formal study. Post-Intermediate level is typically for students who are non-native speakers with substantial formal study and near-native competence; or are literate native speakers of the language. Students should consult with the Languages staff regarding the progression sequence that best fits their level of skill. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher or lower class. Students may consult with the Languages Course Advisor, if they are unsure of their entry level. Students should avoid enrolling in units at different levels at the one time (e.g. you should not enrol in Japanese 201 and 301 at the same time). Please check the current timetable as some units may not be offered every year. Advanced (Level 3) units may be offered on a rotational basis.

A major in Japanese comprises a sequence of 80 credit points with 60 credit points at Levels 2 and 3 (with no less than 30 credit points of these at Level 3), however students commencing at beginners level, that is units 101 and 102, and who follow the recommended course structure, are only required to complete 20 credit points at Level 3.

Students should take units that reflect their level of competence in the language and they should not backtrack, i.e. they must not:

- take a Level 1 unit after passing a Level 2 unit in the same language; or
- take a Level 2 unit after passing a Level 3 unit in the same language.

Level 1 units

100085.2	Japanese 101
100086.3	Japanese 102

Level 2 units

102028.1	Japanese 201
102029.1	Japanese 202: Speaking and Listening
102030.1	Japanese 203
102031.1	Japanese 204

Level 3 units

101952.1	Japanese 301
100092.3	Japanese 302

100093.2	Japanese 303: Contemporary Culture and Society
101970.1	Japanese 304: Discourse in Japanese
101971.1	Japanese 305: Advanced Reading and Writing
102219.1	Japanese 306: Japanese Popular Culture
101950.1	Intercultural Communication
100201.3	Special Study in Languages and Linguistics

Advanced entry level Japanese students may complete the following Level 1 pool units. The units will be recognised as Level 3 pool units for the purpose of specialisation completion.

100194.2	Introduction to Interpreting
100195.2	Introduction to Translation

Please note

The Level 3 units listed below count towards completion of the major for students who may have passed units in the list below in 2015 or earlier.

400087	- Applied Critical Methods
101454	- Intercultural Pragmatics
100096	- Japanese 306: Japanese for Business
100098	- Japanese 308: Japanese Textual Studies
101668	- World Cinema
101669	- World Literature in Translation

Inherent Requirements

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

Major - Criminology and Criminal Justice

M1069.1

This criminology major offers students the opportunity to study crime and criminal justice in a critical way that particularly stresses social and cultural definitions of criminality and the reactions to it. Areas of focus include criminal justice institutions and practices; the development of criminology as a discipline and its various strands; forms and patterns of victimisation; crime prevention strategies and debates; aspects of juvenile justice; the evolution of prisons and different forms of punishment; law enforcement and surveillance; violence, gender and crime; cultural depictions of crime and contemporary debates in criminology.

Location

Campus	Mode
Liverpool Campus	Internal
Penrith Campus	Internal
Sydney City Campus	Internal
WSU Online	Multi Modal

Specialisation Structure

Students must complete 80 credit points as follows

Recommended Sequence - Liverpool, Penrith and Sydney City Campuses**Year 1****Autumn session**

101560.3 Introduction to Crime and Criminal Justice

From 2019 students should take the following unit in place of 101560 Introduction to Crime and Criminal Justice:

102709.1 Introduction to Criminal Justice

Spring session

102039.1 Crime, Deviance and Society

Year 2**Autumn session**

400684.5 Juvenile Crime and Justice

From 2019 students should take the following unit in place of 400684 Juvenile Crime and Justice:

102699.1 Youth Justice and Practice

Spring session

102038.1 Crime Prevention and Community
102036.1 Prisons, Punishment and Criminal Justice

Year 3**Autumn session**

102037.1 Perspectives in Criminology
101561.2 Gender, Crime and Violence

Spring session

101562.3 Culture and Crime

Recommended Sequence - WSU Online**Year 1****Trimester 2**

102039.1 Crime, Deviance and Society
101560.3 Introduction to Crime and Criminal Justice

From 2019 students should take the following unit in place of 101560 Introduction to Crime and Criminal Justice:

102709.1 Introduction to Criminal Justice

Trimester 3

102038.1 Crime Prevention and Community
400684.5 Juvenile Crime and Justice

From 2019 students should take the following unit in place of 400684 Juvenile Crime and Justice:

102699.1 Youth Justice and Practice

Year 2**Trimester 4**

102036.1 Prisons, Punishment and Criminal Justice

Trimester 5

102037.1 Perspectives in Criminology
101561.2 Gender, Crime and Violence

Trimester 6

101562.3 Culture and Crime

Major - Geography and Urban Studies**M1071.1**

Students in this major examine the geography of contemporary Australian cities and regions. Geography is the integrated study of people, places and environments. The cutting edge interests of today's Geographers include post-colonialism, the emergence of global information economies, indigenous issues, class and cultural disparities, population movement, sexuality and space, and the global diffusion of popular culture. Urban Studies is a newer discipline focused on social justice within the city, through its critical assessments of peoples' access to scarce urban resources, such as housing, transport, education and employment. The political, economic, and cultural forces that shape cities and urban policy are the key concerns of the Urban Studies curriculum. These applied interests in urban well-being and city structure are the intellectual basis for the Urban Planning profession. The Geography and Urban Studies major is a compulsory component of the University's accredited Planning course.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must complete 80 credit points as follows

Year 1**Autumn Session**

101589.2 Cities: Introduction to Urban Studies

Year 2**Autumn Session**

101590.2 Cultural and Social Geographies

Spring Session

- 101591.2** The Economics of Cities and Regions
101646.2 Analysis of Spatial Data

Year 3**Autumn Session**

- 101593.3** Planning the City: Development, Community and Systems
101645.2 Transport, Access and Equity

Spring Session

- 101694.2** Geographies of Migration
101905.2 Indigenous Cultures: A Global Perspective

Major - Sociology**M1073.1**

The major in Sociology provides students with a thorough training in the methods, theories and select leading areas of contemporary sociology. As well as units in which methods and theories are taught, through the social science core, students enrolled in the Sociology major will have opportunities to study a number of particular themes from a sociological perspective, including inequalities, deviance, identities, gender, religion, medicine and health care, ethnicity and migration, and the family, among other possibilities. A Bachelor of Social Science (BSS) with a major in Sociology will prepare students for both employment and a research higher degree.

Location

Campus	Mode
Liverpool Campus	Internal
Penrith Campus	Internal

Specialisation Structure

Students must complete 80 credit points as follows

Year 1**Spring session**

- 101886.1** Brave New World: Negotiating Social Change in the 21st Century

Year 2**Autumn session**

- 101610.2** Health, Illness and Biomedicine: A Sociological Perspective
101612.3 Identity and Belonging

Spring session

- 102039.1** Crime, Deviance and Society
102143.1 Families and Intimate Life

Year 3**Autumn session**

- 101611.2** Home and Away: Ethnicity and Migration in Australia
101359.5 Sociology of Religion

Spring session

- 101330.3** Self and Society

Major - Heritage and Tourism**M1077.1**

In a highly mobile world (migration, tourism, media and communications, travel and transport) and in contemporary life where the preservation of historical and natural environments present as one of the major challenges facing all societies, heritage has become a touchstone for social and cultural identity, our understanding of modernity, peace and development, our senses of citizenship, custodianship and community. At the same time heritage places have become significant tourist destinations and so in a world of flows and networks, the heritage-tourism relationship is a critical one. In the 21st century it is impossible to disentangle the two. This major introduces contemporary heritage issues and provides an in-depth understanding of tourism as a social phenomenon. It enables a critical examination of the relationship between heritage and tourism in number of settings within Australia (including Indigenous Australia) and internationally. Graduates with a heritage and tourism major can contemplate careers within a diverse range of government, non-government organization and businesses that require understanding, insight and skills related to heritage and tourism.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must complete 80 credit points as follows

Year 1**Autumn session**

- 101901.1** Tourism and Global Trends

Spring session

- 101598.4** Tourism in Society
101601.3 Issues in Contemporary Heritage

Year 2**Autumn session**

- 101599.3** Heritage and Tourism
101590.2 Cultural and Social Geographies

Spring session

- 101643.2** Heritage Interpretation

Year 3**Autumn session**

- 101904.2** Tourism Policy and Planning

Spring session

- 101905.2** Indigenous Cultures: A Global Perspective

Major - Peace and Development Studies**M1083.1**

The Peace and Development Studies major is concerned with methods for promoting peace, human rights and sustainability. It involves a critical analysis of inequalities of power and opportunity that lead to international and local conflict, social dislocation and environmental degradation. Students will examine the structural causes of racist and gendered violence, environmental crises, forced migration, poverty, resource conflict, and inter-generational inequity. The inter-related network of solutions includes empowerment and self-determination, sustainable living, constructive development, peacemaking and peace building. These require understanding of the theories and method for identifying, measuring and resolving conflict and environmental degradation. The assumptions and failings of traditional development practice are critically assessed. Students will engage social theory within an interdisciplinary and applied framework, at local, national and international levels. The major is comprised of three fields: 1) structural inequality, social justice & human rights; 2) development and sustainability; 3) peace and humanitarian responses/ actions.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must complete 80 credit points as follows

Year 1 Autumn session

- 101573.2** Human Rights, Peace and Development

Year 1 Spring session

- 101572.2** Development and Sustainability

Year 2 Autumn session

- 101331.2** Issues in World Development: Rich World, Poor World

Year 2 Spring session

- 101575.2** Peace-Making and Peace-Building
101905.2 Indigenous Cultures: A Global Perspective

Year 3 Autumn session

- 101569.2** Sustainable Futures

Year 3 Spring session

- 101570.2** Alternatives to Violence
101571.2 Peace & Development Project

Major - Indonesian**M1093.1**

Language specialisations aim to enable students to develop an appropriate level of proficiency in a second language, which may be used for professional purposes such as teaching, interpreting and translation, business or international relations. Students undertaking a language specialisation will be able to use the language in question according to its grammatical and pragmatic principles, communicate with native speakers appropriately in the spoken as well as the written mode, and demonstrate an understanding of the cultures and societies associated with the language.

Location

Campus	Mode
Bankstown Campus	Internal

Specialisation Structure

There are three entry levels into language specialisations. Beginner's level is for those with no previous study or minimal study of the language. Intermediate level is typically for students who: are non-native speakers with study of the language to HSC 2 Unit level or have a home background in the language but no comprehensive formal study, or who speak a non-standard variety (e.g. dialect). Post-Intermediate level is typically for students who are non-native speakers with substantial formal study and near-native competence; or are literate native speakers of a standard variety. Students should consult with the Languages staff regarding the progression sequence that best fits their level of skill. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher or lower class. Students may consult with the Languages Academic Course Advisor, if they are unsure of their entry level. Students should avoid enrolling in units at different levels at the one time (e.g. you should not enrol in Indonesian 201 and 301 at the same time). Please check the current timetable as some units may not be offered

every year. Advanced (Level 3) units may be offered on a rotational basis.

A specialisation in Indonesian comprises a sequence of 80 credit points with 60 credit points at Level 2 and 3 (with no less than 30 credit points of these at Level 3).

Students should take units that reflect their level of competence in the language and they should not backtrack, i.e. they must not:

- take a Level 1 unit after passing a Level 2 unit in the same language; or
- take a Level 2 unit after passing a Level 3 unit in the same language.

Level 1 units

102316.1 Indonesian 101
102326.1 Indonesian 102

Level 2 units

102319.2 Indonesian 201
102327.1 Indonesian 202

Level 3 units

102320.1 Indonesian 301: Indonesian for Academic Purposes
102328.1 Indonesian 302: Indonesian for Professional Purposes
102329.1 Indonesian 303: Indonesian for Business
102330.1 Indonesian 304: Contemporary Indonesia
102331.1 Indonesian 305: Past and Present of Indonesian
102332.1 Indonesian 306: Indonesian Literature
101950.1 Intercultural Communication
100201.3 Special Study in Languages and Linguistics

Inherent Requirements

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

Major - Anthropology

M1097.1

Social Anthropology is the study of humans and the cultures they create. The major in Anthropology within the Bachelor of Social Science offers students the opportunity to examine social patterns and practices across cultures, to discover similarities and differences between cultures, and to understand the processes by which humans organise and create meaning. Areas of focus include the development of anthropology as a discipline; globalisation and culture; power and politics; gender and sexuality; identity and belonging; ethnography and ethnographic methods; indigenous peoples and nation states. Specific attention is given to cultures of Australasia, Southeast Asia and the Pacific, and to cross cultural interactions, at both global and local levels. The major seeks to equip students with multi-cultural knowledge as well as to provide a

thorough grounding in research methods and ethics with utility in a variety of professional and academic contexts.

Location

Campus	Mode
Liverpool Campus	Internal
Penrith Campus	Internal

Specialisation Structure

Students must complete 80 credit points as follows

Year 1

Autumn Session

102344.1 Different Ways of Being in the World: Introduction to Social Anthropology

Spring session

102345.1 Global Structures, Local Cultures

Year 2

Autumn Session

102346.1 Ethnographies of Southeast Asia and the Pacific
101612.3 Identity and Belonging

Spring session

102347.1 Anthropologies of the Everyday

Year 3

Autumn Session

102348.1 Power as a Cultural System
102349.1 The Anthropologies of Gender and Sexualities

Spring session

101905.2 Indigenous Cultures: A Global Perspective

Major - International English

M1108.1

International English examines English in its many varieties with a focus on the international development of this language, extending far beyond native English speakers, and identifying features of the language essential to academic and professional performance. The major provides a basis for international students who may intend to teach English in different countries, or enter other language-centred professions, or for local students intending to pursue post-graduate qualifications in education or wanting to improve English skills. The major provides studies in the varieties and structures of English,

informed by specific studies in linguistics, English teaching and bilingualism and language acquisition.

Location

Campus	Mode
Bankstown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must successfully complete 80 credit points as follows

Students must complete the following four compulsory units

102438.1	English as an International Language
102439.1	English Language Analysis
101950.1	Intercultural Communication
102474.1	TESOL Teaching Methodology

Students must complete four of the following pool units, with no less than two units at Level 3:

Level 1 Unit Pool

101945.2	Introduction to Linguistics
102042.1	The Sound of Language

Level 2 Unit Pool

102475.1	Language Assessment and Testing
102489.1	Meaning in Language
102490.1	Pragmatics
101948.3	Structure of Language
102414.1	Working Grammar

Level 3 Unit Pool

101449.2	Bilingualism and Biculturalism
102476.1	English Language Linguistics
100023.6	Psychology of Language
101451.2	Second Language Acquisition
101450.2	Sociolinguistics
102477.1	TESOL Curriculum Design
102478.1	TESOL Placement

Major - Creative Writing

M1113.1

The Creative Writing major provides students the opportunity to produce their own creative writing and to edit and publish their work. Students study with professional authors, editors and publishers from the Writing and Society Research Centre and staff from the School of Humanities and Communication Arts. In addition, students have the opportunity to study contemporary approaches to language and literary studies, including literary criticism and theory, linguistic analysis, genre and textual study, and to read and examine a wide selection of modern and classic literatures. Career prospects include publishing, editing, teaching, writing and advertising.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must successfully complete 80 credit points as follows.

Please note all Bachelor of Arts students including Pathways to Teaching, Dean's Scholars and double degrees must complete the structure under the heading Bachelor of Arts.

Please note all Bachelor of Creative Industries students including double degrees must complete the structure under the heading Bachelor of Creative Industries.

This specialisation is available to students in other Western Sydney University courses. If the specialisation is available on your campus, the course structure allows space for enrolment in the specialisation and pre-requisite requirements can be met, please follow the structure under the heading Bachelor of Arts. Consult your Course Advisor for further advice.

Note: Not all units will be offered each year. Units will be offered on a rotational basis.

Bachelor of Arts Students

Compulsory units

102437.1	Creative Writing: Practical Skills and Knowledge
102436.2	Creative Writing: The Imaginative Life
102435.1	Editing and Publishing
100582.3	Writing Portfolio

Bachelor of Creative Industries Students

Creative Industries students must complete their Introduction to major unit as part of the core requirements of the course, prior to enrolling in this major.

102436.2	Creative Writing: The Imaginative Life
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Creative Industry students must complete the three compulsory units below and must complete five units from the Level 2 / Level 3 unit pool with a minimum of 2 units at Level 3. See below.

Compulsory units

102437.1	Creative Writing: Practical Skills and Knowledge
102435.1	Editing and Publishing
100582.3	Writing Portfolio

Pool Units

Bachelor of Arts students must complete four units from the list below, with a minimum of 2 units at Level 3. Bachelor of Creative Industries students must complete five units from the list below, with a minimum of 2 units at Level 3.

Note: Not all units will be offered each year. Units will be offered on a rotational basis.

Level 2 Unit Pool

100900.4	Comedy and Tragedy
100584.2	Experimental Writing and Electronic Publication
102572.1	Literature and Decolonisation
101978.1	Modern Australian Poetry and Poetics
101917.1	Representing Everyday Life in Literary and Visual Cultures
101964.1	Sexual/Textual Politics in Victorian Women's Writing
102507.1	The Gothic
101795.3	The Musical
102414.1	Working Grammar
100896.3	Writing Fiction

Level 3 Unit Pool (choose at least two)

101796.1	19th Century American Literature
102099.1	20th Century American Literature
100849.4	Australian Textual Studies
102205.1	Children's and Young Adult Fiction
101626.5	Children's Literature: Image and Text
100856.4	Creative Non-Fiction
100859.3	Creative Writing Project
102315.1	Crime Fiction
100866.3	Film and Drama
100961.4	Humanities Internship
102186.1	Introduction to Stylistics
102416.1	Law, Literature and Culture
101724.2	Literary Animals
101033.4	Modernism
102434.1	Postcolonial Literatures: Partition, Dependence and Exile
101650.3	Race in Literature
102078.1	Reading Ireland in the 1990s: Fiction, Poetry, Drama
101005.4	Representing Crime
101791.2	Short Fiction in the Americas
100893.4	The Novel
101880.1	The Space of Literature
101977.1	Women, Travel and Empire
102374.1	Women's Writing
101669.3	World Literature in Translation
101908.1	Writing and Reading Sci Fi and Fantasy
101670.3	Writing and Society
100895.4	Writing For Performance
101011.3	Writing Poetry

Note: The Level 3 unit 100961 Humanities Internship cannot count towards completion of SM1129 English Teaching Specialisation (Birth-5/Birth-12) or M1126 Education Studies Major - Primary English Teaching Specialisation for students enrolled in courses 1708 Bachelor of Arts (Pathway to Teaching Birth - 5/Birth - 12), 1651 Bachelor of Arts (Pathway to Teaching Primary), 1822 Bachelor of Arts (Pathway to Teaching Primary) Dean's Scholars, 6017 Diploma in Arts/Bachelor of Arts (Pathway to Teaching Birth-5/Birth-12), 6019 Diploma in Arts/Bachelor of Arts (Pathway to Teaching Primary) as this would not satisfy the professional accreditation requirements for NESA.

Please note

The Level 2 and 3 units listed below count towards completion of the Major for students from 2016 or earlier, who may have previously passed these units.

Level 2 units

101869 - Studies in Postcolonial Literature

Level 3 units

101966 - Literatures of Decolonisation

Major - Musicology**M1114.1**

The Musicology major provides students from outside the Music program with an introduction to the history of Western classical music, and popular and classical musics in the twentieth and twenty-first centuries. It offers perspectives on modernism, postmodernism and post-postmodernism, and incorporates social, political and philosophical critiques of music.

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Students must complete 80 credit points as follows

Year 1**Autumn session**

102546.1 Western Art Music History

Choose one of

102558.1 Music Production
102564.1 Music Theory Fundamentals

Spring session

102547.1 Popular Music Histories

Year 2**Summer session**

102281.1 Popular Music Communities

Autumn session

102551.1 Music, Culture and Discourse

Spring session

102552.1 The Politics of Australian Music

Year 3**Autumn session**

102429.1 Music Careers Research

Spring session

102573.1 Music and Critical Thought

Equivalent Specialisation Units

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

- 101520 - Basic Composition, Craft and Theory
- 101523 - Cultural Paradigms and Music
- 101526 - Introduction to Sound Technologies
- 101528 - Modes and Codes in Music Production
- 101742 - Music and Philosophy
- 102427 - Western Art Music 1
- 102428 - Western Art Music 2

Major - Music Performance**M1115.1**

The Music Performance major provides students with the opportunity to develop their professional and creative potential in making and appreciating a range of different kinds of music. Students will gain practical experience in performance as a soloist and in groups, and through improvising and collaborating.

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure**Special Requirement**

Either by an audition; or on a demonstrated level of attainment in 6th grade AMEB musical performance (instrument or voice) or equivalent, and 4th grade AMEB music theory and/or musicianship or equivalent; or on the successful completion of a TAFE diploma or advanced diploma.

Students must complete 80 credit points as follows

Please note: Students will complete one of these two units only - 102564 Music Theory Fundamentals or 102565 Songwriting and Music Theory.

Year 1**Autumn session**

- 102553.1 Music Performance 1
- 102564.1 Music Theory Fundamentals

Spring session

- 102554.1 Music Performance 2
- 102565.1 Songwriting and Music Theory

Year 2**Autumn session**

- 102555.1 Music Group Performance

Spring session

- 101539.4 The Composer-Performer

Year 3**Autumn session**

- 102556.1 Expanded Music Performance

Spring session

- 102557.1 Repertoire and Identity in Performance
- 102430.1 Professional Music Project

Equivalent Specialisation Units

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

- 101520 - Basic Composition, Craft and Theory
- 101521 - Collaboration and Live Music Performance
- 101522 - Composition, Craft and Theory
- 101524 - Free and Notated Music Performance
- 101525 - Introduction to Music Performance
- 101533 - Music Performance: Repertoire and Identity
- 101535 - Sound and Performance: Expanded Practice

Major - Linguistics**M1119.1**

Language is fundamental to the human experience. Through study of how language works, students make contact with fundamental philosophical, socio-cultural, and psychological questions about what it means to be human. Linguistics prepares students with a foundation for many careers including primary and secondary teaching, policy analysis, communication, and social services in culturally diverse communities. Linguistics students also gain the analytical tools of empirical science including the ability to break complex problems into components with tractable solutions and to evaluate theories on the basis of empirical facts. These skills prepare students for success in post-graduate studies and careers in research, analytics, business and law.

Location

Campus	Mode
Bankstown Campus	Multi Modal

Specialisation Structure

Students must complete the following compulsory units

- 101449.2 Bilingualism and Biculturalism
- 101945.2 Introduction to Linguistics
- 101451.2 Second Language Acquisition
- 101948.3 Structure of Language
- 102042.1 The Sound of Language
- 102489.1 Meaning in Language

And students must complete two of the following pool units

Level 2 Unit Pool

102490.1 Pragmatics

Level 3 Unit Pool

101946.1 Discourse Analysis
102043.1 Historical Linguistics
101950.1 Intercultural Communication
100023.6 Psychology of Language
102625.1 Discovering language: Everything you've ever wanted to know but never asked
101450.2 Sociolinguistics

Please note:

The Level 2 and Level 3 units listed below count towards completion of the major for students who passed any of these units in 2015 or earlier.

Level 2

100194 - Introduction to Interpreting - [level 1]
 100195 - Introduction to Translation - [level 1]
 101947 - Pragmatics [level 2]
 101873 - The Sound of Language [level 2]

Level 3

400087 - Applied Critical Methods
 101441 - English Semantics and Pragmatics
 101454 - Intercultural Pragmatics
 101709 - Languages and Grammatical Concepts 3A: Arabic
 101710 - Languages and Grammatical Concepts 3A: Chinese
 101711 - Languages and Grammatical Concepts 3A: Italian
 101712 - Languages and Grammatical Concepts 3A: Japanese
 101713 - Languages and Grammatical Concepts 3A: Spanish
 101721 - Second Language Learning and Teaching
 101832 - Talking Normal: Sociolinguistics and Modern Literature
 101453 - Text and Discourse in English

The Level 3 unit listed below counts towards completion of the major for students who passed this unit in 2018 or earlier.

102044 - Research Methods in Linguistics

Major - International English

M1129.1

International English examines English in its many varieties with a focus on the international development of this language, extending far beyond native English speakers, and identifying features of the language essential to academic and professional performance. The major provides a basis for international students who may intend to teach English in different countries, or enter other language-centred professions, or for local students

intending to pursue post-graduate qualifications in education or wanting to improve English skills. The major provides studies in the varieties and structures of English, informed by specific studies in linguistics, grammar and English in particular discourse settings.

Location

Campus	Mode
Bankstown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must complete the following eight compulsory units:

101946.1 Discourse Analysis
102438.1 English as an International Language
102439.1 English Language Analysis
102476.1 English Language Linguistics
101945.2 Introduction to Linguistics
102489.1 Meaning in Language
101450.2 Sociolinguistics
102042.1 The Sound of Language

Major - Economy and Markets

M2510.1

The Economy and Markets major provides a broad pluralist perspective on fundamental aspects of relationships between individuals, firms, institutions and countries. Students will learn how economies function and how public policy and the way organisations behave affect diverse social, economic and environmental problems. Students are introduced to a wide array of competing economic theories, so that they are critically informed about the ways in which they can transform the world. A major in this area prepares students to be active participants in addressing the wide range of problems faced by governments, social organisations and the business community in the domestic and international economies. Students who study economics can expect to develop their analytical and problem solving skills and to be intellectually challenged, whether they view the discipline as providing specific vocational skills or as an area of academic and intellectual interest to them. A major in this area is very highly regarded in the business world and opens up a very large range of career prospects in general business, finance and the public sector.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must successfully complete 80 credit points including all of the core units listed below.

The units in this major are offered at the Parramatta City campus and the core units in the Bachelor of Arts are

offered at the Parramatta South, Bankstown and Penrith campuses. Students will be required to travel between campuses in order to complete this major.

200922.1	Consumers, Firms and Markets
200923.1	Corporations, Economic Power and Policy
200924.2	Cost Benefit Analysis
200048.2	Financial Institutions and Markets
200815.2	Globalisation and Sustainability
200925.1	Growth, Cycles and Crises
200926.1	Macroeconomic Measures and Models
200549.2	The Australian Macroeconomy

Major - Organisations and Work

M2512.1

The Organisations and Work major is designed for people interested in careers in organisational development, where there is emphasis on human resource management. Graduates have knowledge of how leadership and management of people can support organisational objectives and create organisational opportunities. That is, graduates develop commercial acumen and appreciate the competing interests around work, aware of trends locally and internationally. Throughout the major, students are challenged to develop and demonstrate communication, cultural and analytic skills required to be innovative and responsible team-members and leaders. Students must be enrolled in one of the following courses: 1706 Bachelor of Arts, 1655 Bachelor of Arts (Dean's Scholars), 1651 Bachelor of Arts (Pathway to Teaching Primary), 1822 Bachelor of Arts (Pathway to Teaching Primary) Dean's Scholars, 1652 Bachelor of Arts (Pathway to Teaching Secondary), 1823 Bachelor of Arts (Pathway to Teaching Secondary) Dean's Scholars or 1708 Bachelor of Arts (Pathway to Teaching Birth - 5 / Birth - 12).

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must successfully complete 80 credit points including all of the core units listed below.

The units in this major are offered at the Parramatta City campus and the core units in the Bachelor of Arts are offered at the Parramatta South, Bankstown and Penrith campuses. Students will be required to travel between campuses in order to complete this major.

200158.4	Business, Society and Policy
200614.2	Enterprise Industrial Relations
200912.1	Enterprise Leadership
200865.1	Managing Operations
200300.2	Managing People at Work
200585.4	Organisational Behaviour
200157.4	Organisational Learning and Development
200861.1	Work Health and Safety

Major - Global Business

M2513.1

The global economy is becoming increasingly important for organisations seeking out new opportunities to expand their customer base and develop partnerships. Managers who are well versed in the needs of doing business internationally and who can exploit these opportunities will therefore play an integral role in any such corporation. Building on a solid foundation in domestic business education, including global sustainability, international business strategy, managing in a global environment, and international marketing, this major equips graduates with the detailed knowledge of the international dimension of business and the necessary understanding of the workings of that market system.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must successfully complete 80 credit points including all of the core units listed below.

The units in this major are offered at the Parramatta City campus and the core units in the Bachelor of Arts are offered at the Parramatta South, Bankstown and Penrith campuses. Students will be required to travel between campuses in order to complete this major.

200589.2	Export Strategy and Applications
200815.2	Globalisation and Sustainability
200626.2	International Business Strategy
200094.4	International Marketing
200591.2	Introduction to International Business
200863.1	Leadership and Entrepreneurship
200864.1	Managing in the Global Environment
200098.3	The Markets of Asia

Major - Innovation and Change

M2514.1

In a world that is undergoing a continuous cycle of change and new ideas, the Innovation and Change major provides students with the key concepts, business models and issues that bring advancement within the context of contemporary business. Students will learn to compete on a global platform and deal with issues surrounding business ethics, corporate social responsibility and cultural awareness. The knowledge and skills acquired through this major will enable future leaders to revitalise organisations and create value in the process of transforming innovations into products or services.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must successfully complete 80 credit points including all of the core units listed below.

The units in this major are offered at the Parramatta City campus and the core units in the Bachelor of Arts are offered at the Parramatta South, Bankstown and Penrith campuses. Students will be required to travel between campuses in order to complete this major.

200924.2	Cost Benefit Analysis
200862.1	Creating Change and Innovation
200918.1	Design Thinking for Creativity
200911.1	Enterprise Innovation and Markets
200815.2	Globalisation and Sustainability
200863.1	Leadership and Entrepreneurship
200864.1	Managing in the Global Environment
200915.2	The Service Enterprise

Major - Information Technology**M3002.1**

This major is not available to students enrolled in the Networks or Information Systems Key Programs within the Bachelor of Computing course, and the Bachelor of Information and Communications Technology course. All other students may select this major.

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Students must complete 80 credit points as follows

300565.2	Computer Networking
300095.5	Computer Networks and Internets
300580.3	Programming Fundamentals
300585.2	Systems Analysis and Design
300582.5	Technologies for Web Applications
300583.3	Web Systems Development

Choose one of

300575.2	Networked Systems Design
300166.3	Systems and Network Management

Choose one of

300569.2	Computer Security
300104.4	Database Design and Development
300570.3	Human-Computer Interaction

Major - Web Systems Development**M3003.1**

This major is not available to students enrolled in the Bachelor of Computing, Bachelor of Computer Science or the Bachelor of Information and Communications Technology courses. All other students may select this major.

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Students must complete the following eight units

300104.4	Database Design and Development
300111.2	Developing Web Applications with XML
300570.3	Human-Computer Interaction
300572.2	Information Systems Deployment and Management
300580.3	Programming Fundamentals
300585.2	Systems Analysis and Design
300582.5	Technologies for Web Applications
300583.3	Web Systems Development

Major - Mathematics**M3054.1**

This major covers topics in the traditional areas of calculus and algebra. Single and multivariable calculus are covered, as well as topics in linear algebra, analysis and mathematical modelling. This major is available to all undergraduate students and may meet the NSW Institute of Teachers accreditation requirements for teaching Mathematics as a first subject in NSW state high schools.

Location

Campus	Mode
Campbelltown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must complete eight units as follows

Level 1

200025.2	Discrete Mathematics
300672.2	Mathematics 1A
300673.2	Mathematics 1B

Level 2

Choose two units from the Level 2 units below

200028.3	Advanced Calculus
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200030.4 Differential Equations
200027.3 Linear Algebra

Level 3

200193.2 Abstract Algebra
200023.3 Analysis
200022.3 Mathematical Modelling

Major - Entertainment Computing**M3068.1**

This major will deal with a comprehensive focus on the technical and theoretical knowledge of design, development and deployment of software applications in the field of Entertainment Computing.

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Students must complete 80 credit points as follows.

300093.7 Computer Graphics
300565.2 Computer Networking
300104.4 Database Design and Development
300491.2 Games Technology
300580.3 Programming Fundamentals
300578.3 Professional Development
300585.2 Systems Analysis and Design
300862.2 Video Games Development

Major - Networking**M3070.1**

The Networking Major provides the students with in-depth knowledge for the analysis, design, and implementation of networked systems. It offers the students the opportunity to develop the technical skills needed for management and secure operation of a broad range of systems, including LANs, WANs, wireless networks, distributed systems, and large heterogeneous networks.

Location

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

Specialisation Structure

Students must complete 80 credit points as follows

300565.2 Computer Networking
300095.5 Computer Networks and Internets
300138.3 LAN Workshop
300143.4 Network Security
300575.2 Networked Systems Design
300166.3 Systems and Network Management
300952.2 Wireless and Mobile Networks

Choose one of

300569.2 Computer Security
301124.2 Ethical Hacking Principles and Practice

Please note

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

300957 - Parallel and Distributed Computing

Major - Mobile Computing**M3074.1**

This major is only available to students enrolled in the Bachelor of Information and Communications Technology, Bachelor of Information and Communications Technology (Advanced), Bachelor of Computer Science, Bachelor of Computer Science (Advanced), Bachelor of Information Systems or Bachelor of Information Systems (Advanced). This major covers theories and technologies used for the development of distributed applications for hand-held mobile devices. Students completing this major will understand the advanced principles related to mobile hardware devices, data storage and transmission, and communication networks. In addition they will identify, analyse, and formulate solutions to real-world problems in the mobile domain. In devising these solutions students will also consider principles associated with user interface design, professional and ethical issues, in particular those relating to security and privacy of user data and user behaviour related to mobile devices and its applications.

Location

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

Specialisation Structure

Students must complete 80 credit points as follows

300104.4 Database Design and Development
300570.3 Human-Computer Interaction
300960.4 Mobile Applications Development
300143.4 Network Security
300579.6 Professional Experience
300961.3 Social Computing
300976.1 Technologies for Mobile Applications
300952.2 Wireless and Mobile Networks

Major - Visualisation and Graphics

M3091.1**Location**

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Students must complete 80 credit points as follows.

Core Units

301074.2	Graphics 1: 2D and 3D Industrial Design Communication
301076.1	Graphics 2: Visual Simulation
301079.1	Graphics 3: 3D Engineering Specifications and Visualisation
300570.3	Human-Computer Interaction

Alternate Units

301091.1	Graphics 4: Kinetic Narratives
301092.2	Graphics 5: Creative Computing
300580.3	Programming Fundamentals

Choose one of

300976.1	Technologies for Mobile Applications
301088.1	Tangible Interaction Design

Major - Design Management and Entrepreneurship

M3092.1**Location**

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Students must complete 80 credit points as follows.

Core Units

301082.1	Design Management 2: Operation and Supply Chain
300014.3	Design Management 3: Organisational Skills for Designers
301095.1	Sustainable Design 1: Materials and Technology
301081.2	Sustainable Design 2: Product Service Systems

Alternate Units

200862.1	Creating Change and Innovation
301093.1	Design Management 1: Process and Manufacturing

301094.1	Design Management 4: Strategy and Lean Start-Up
200863.1	Leadership and Entrepreneurship

Major - Design-led Innovation and Management

M3093.1**Location**

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Students must complete 80 credit points as follows.

Core Units

300014.3	Design Management 3: Organisational Skills for Designers
301084.1	Design Studio 6: Ambience, Place and Behaviour

Alternate Units

200088.3	Brand and Product Management
301094.1	Design Management 4: Strategy and Lean Start-Up
200094.4	International Marketing
200083.2	Marketing Principles
101184.3	Psychology: Human Behaviour
301088.1	Tangible Interaction Design

Major - Health Informatics

M3097.1

Increasingly, healthcare information is being captured electronically and newer technology modes are being applied in many innovative ways to support efficient and effective clinical care. This major aims to promote understanding of Information and Communications Technology (ICT) concepts in healthcare including electronic healthcare records; healthcare data analysis; fundamentals of medicine concepts and disease classification; healthcare system interoperability and design. This specialisation will prepare students for the ICT challenges ahead in the healthcare domain, and equip students with the knowledge and skills for taking up employment opportunities with major public and private healthcare providers and technology suppliers.

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Students must complete 80 credit points as follows

300951.2	Clinical Classification and Coding
300104.4	Database Design and Development
300950.2	Fundamentals of Medical Concepts and Terminology
300955.1	Healthcare Data Environments
300956.1	Healthcare Software and Systems
300570.3	Human-Computer Interaction
300566.2	Introduction to Health Informatics
300585.2	Systems Analysis and Design

Major - Big Data

M3098.1

This major covers theories and technologies of big data with applications to information systems. Students completing this major will possess and apply the technical skills for managing large volumes and varieties of data in the information systems context.

Location

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

Specialisation Structure

Students must complete eight units as follows:

301110.1	Applications of Big Data
300584.4	Emerging Trends in Information Systems
300573.2	Information Systems in Context
301033.1	Introduction to Data Science
300580.3	Programming Fundamentals
200032.6	Statistics for Business
300958.2	Social Web Analytics
301109.2	Visual Analytics

Major - Cyber Security

M3102.1

From Autumn 2019, this major is replaced by M3116 Cyber Security. The Cyber Security major aims to develop graduates with sound skills in the discipline of information systems security. Today, the widespread use of networked systems means protecting these systems from various attacks is more important than ever. Cyber Security is an essential aspect of today's information systems. This major covers fundamental information security knowledge and security protocols from basic cryptography algorithms to their applications in computer systems and networked systems. Students will learn fundamental security concepts, practical implementation of the security application programs as well as ethical hacking techniques to protect cyber security.

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Students must complete 80 credit points as follows.

Students must complete the following six units

300096.6	Computer Organisation
301124.2	Ethical Hacking Principles and Practice
300404.2	Formal Software Engineering
300128.5	Information Security
300143.4	Network Security
300167.4	Systems Programming 1

Choose two units from the following

300799.1	Advanced Theoretical Computer Science
300095.5	Computer Networks and Internets
300130.4	Internet Programming
300698.4	Operating Systems Programming
300958.2	Social Web Analytics
300165.4	Systems Administration Programming

Major - Interactive Analytics

M3107.1

This major covers theories, technologies and methodologies in analytics and human-machine interaction and communication to support big data analytics. By completing this Major, students will gain technical skills for producing effective representation of analytical works supporting big data analytics.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must complete 80 credit points as follows.

300093.7	Computer Graphics
102265.1	Graphic Design: Interactive Digital Media
300570.3	Human-Computer Interaction
301033.1	Introduction to Data Science
200032.6	Statistics for Business
300958.2	Social Web Analytics
301109.2	Visual Analytics
101922.1	Web and Time-based Design

Major - Networking

M3109.1

The Networking major provides students with in-depth knowledge for the analysis, design, and implementation of networked systems. It offers students the opportunity to

develop the technical skills needed for management and secure operation of a broad range of systems, including LANs, WANs, wireless and mobile networks, and large heterogeneous networks.

Location

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

Specialisation Structure

Students must complete 80 credit points as follows

300565.2	Computer Networking
300095.5	Computer Networks and Internets
300138.3	LAN Workshop
300143.4	Network Security
300575.2	Networked Systems Design
300166.3	Systems and Network Management
300952.2	Wireless and Mobile Networks

Choose one of

300569.2	Computer Security
301124.2	Ethical Hacking Principles and Practice

Major - Artificial Intelligence

M3110.1

Advanced development of Artificial Intelligence (AI) and Robotics has resulted in increased AI applications in many industries as well as our everyday life. This major aims to introduce students to the foundations of AI as well as its modern practical applications. The major delivers solid knowledge, skills, techniques and practical applications in robotic programming, problem solving, expert systems, logic reasoning, knowledge representation, data visualization, data mining and machine learning. The objective of this major is to equip the students with AI capabilities that are in high demand in many aspects of modern industries and modern living.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must complete 80 credit points as follows.

Students must complete the following six units

301174.1	Artificial Intelligence
300103.4	Data Structures and Algorithms
301033.1	Introduction to Data Science
300960.4	Mobile Applications Development

301205.1	Robotic Programming
301109.2	Visual Analytics

Choose two units from the following

300093.7	Computer Graphics
300130.4	Internet Programming
300698.4	Operating Systems Programming
301034.1	Predictive Modelling
300165.4	Systems Administration Programming
300958.2	Social Web Analytics

Major - Systems Programming

M3114.1

This major aims to develop graduates with sound skills in the discipline of programming. The focus is on programming at the level of system calls to the underlying operating system and many of the units use the industry standard language for systems programming, namely C/C+++, as the vehicle of instruction. There is a strong emphasis on the development of highly efficient and reliable code that can provide support services for higher level application oriented programs, as well as the development of programs suitable for systems administration and management. Practical work utilises the Unix environment. This major is appropriate where a career in systems programming or systems administration is planned, or where the student wishes to develop advanced systems programming skills.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must complete 80 credit points as follows.

Students must complete the following six units

300103.4	Data Structures and Algorithms
300960.4	Mobile Applications Development
300698.4	Operating Systems Programming
301205.1	Robotic Programming
300167.4	Systems Programming 1
300583.3	Web Systems Development

Choose two units from the following

301174.1	Artificial Intelligence
300093.7	Computer Graphics
301124.2	Ethical Hacking Principles and Practice
300130.4	Internet Programming
301033.1	Introduction to Data Science
300165.4	Systems Administration Programming
300958.2	Social Web Analytics

Major - Networked Systems

M3115.1

This major is only available to students enrolled in the Bachelor of Computer Science and Bachelor of Computer Science Advanced. This major aims to develop graduates with sound skills in the discipline of networked computer systems. Recent advances in computer and telecommunications networked systems, particularly those based on TCP/IP, have increased the importance of network technologies in the discipline of computer science. This major covers a wide range of topics including computer communication network concepts and protocols, multimedia systems, Internet standards and technologies, network security, wireless and mobile computing, and distributed systems. The candidates are also introduced to some of the relevant current key research issues of the field.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must complete 80 credit points as follows.
Students must complete the following six units

300565.2	Computer Networking
300095.5	Computer Networks and Internets
300128.5	Information Security
300575.2	Networked Systems Design
300143.4	Network Security
300952.2	Wireless and Mobile Networks

Choose two units from the following

301124.2	Ethical Hacking Principles and Practice
300698.4	Operating Systems Programming
300166.3	Systems and Network Management
300165.4	Systems Administration Programming
300958.2	Social Web Analytics

Major - Cyber Security

M3116.1

The Cyber Security major aims to develop graduates with sound skills in the discipline of information systems security. Today, the widespread use of networked systems means protecting these systems from various attacks is more important than ever. Cyber Security is an essential aspect of today's information systems. This major covers fundamental information security knowledge and security protocols from basic cryptography algorithms to their applications in computer systems and networked systems. Students will learn fundamental security concepts, practical

implementation of the security application programs as well as ethical hacking techniques to protect cyber security.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must complete 80 credit points as follows.
Students must complete the following five units

300096.6	Computer Organisation
300103.4	Data Structures and Algorithms
301124.2	Ethical Hacking Principles and Practice
300128.5	Information Security
300143.4	Network Security

Choose one unit from the following

300698.4	Operating Systems Programming
300167.4	Systems Programming 1

Choose two units from the following

300095.5	Computer Networks and Internets
300130.4	Internet Programming
300958.2	Social Web Analytics
300165.4	Systems Administration Programming
300166.3	Systems and Network Management

Major - Applied Finance

MT2021.1

The Applied Finance major equips you with the expert skills to create a career as a finance specialist. In this major you will develop in-depth knowledge of finance with a focus on investment and securities, economics, and banking and finance. The core units in the Bachelor of Business will provide you a foundation of business knowledge and develop your skills in innovation, career planning, and numeracy. The Applied Finance major builds on this knowledge and skills in an applied discipline based context. Finance specialists work in a range of roles within the rapidly growing finance sector. This major fulfils the educational requirements for admission as an Associate (A Fin) of the Financial Services Institute of Australasia (FINSIA) provided the applicant is at least working in the financial services industry. All other students are eligible to apply for Affiliate membership (no postnominals apply).

Location

Campus	Mode
Parramatta City Campus-Macquarie Street	Internal
Sydney City Campus	Internal
Uni of Economics Ho Chi Minh City	Internal

Specialisation Structure

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

Core Units for this Major

200818.1	Bank Management
200488.4	Corporate Financial Management
200079.3	Derivatives
200916.1	Economic and Financial Modelling
200048.2	Financial Institutions and Markets
200055.5	International Finance
200819.2	Investment Management
200921.1	Security Analysis and Business Valuation

Professional Units for Careers in Money

Students undertaking the Applied Finance major are advised to take the following four units to satisfy the requirements for their professional core:

200537.4	Economics and Finance Engagement Project
200917.1	Innovation, Enterprise and Society
200914.1	Working in Professions

Choose one of

200052.6	Introduction to Economic Methods
200032.6	Statistics for Business

Recommended Sequence

Qualification for the award of Bachelor of Business with a major in Applied Finance requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time

Year 1

Autumn session

200909.2	Enterprise Law
200910.1	Financing Enterprises
200048.2	Financial Institutions and Markets

Choose one of

200052.6	Introduction to Economic Methods
200032.6	Statistics for Business

Spring session

200912.1	Enterprise Leadership
200488.4	Corporate Financial Management
200911.1	Enterprise Innovation and Markets

And one elective

Year 2

Autumn session

200819.2	Investment Management
200914.1	Working in Professions

And two electives

Spring session

200916.1	Economic and Financial Modelling
200055.5	International Finance

And two electives

Year 3

Autumn session

200818.1	Bank Management
200079.3	Derivatives
200917.1	Innovation, Enterprise and Society

And one elective

Spring session

200921.1	Security Analysis and Business Valuation
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Enterprise Engaged Unit:

200537.4	Economics and Finance Engagement Project
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And two electives

Part-time

Year 1

Autumn session

200909.2	Enterprise Law
200048.2	Financial Institutions and Markets

Spring session

200911.1	Enterprise Innovation and Markets
200910.1	Financing Enterprises

Year 2

Autumn session

200488.4	Corporate Financial Management
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Choose one of

200052.6	Introduction to Economic Methods
200032.6	Statistics for Business

Spring session

200912.1	Enterprise Leadership
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And one elective

Year 3

Autumn session

200819.2	Investment Management
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And one elective

Spring session

200914.1	Working in Professions
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And one elective

Year 4**Autumn session****200055.5** International Finance

And one elective

Spring session**200916.1** Economic and Financial Modelling

And one elective

Year 5**Autumn session****200818.1** Bank Management
200917.1 Innovation, Enterprise and Society**Spring session****200079.3** Derivatives

And one elective

Year 6**Autumn session**

Enterprise Engaged Unit:

200537.4 Economics and Finance Engagement Project

And one elective

Spring session**200921.1** Security Analysis and Business Valuation

And one elective

Major - Economics**MT2022.1**

The Economics major provides a broad pluralist perspective on fundamental aspects of relationships between individuals, firms, institutions and countries. Students will learn how economies function and how public policy and the way organisations behave affect diverse social, economic and environmental problems. Students are introduced to a wide array of competing economic theories, so that they are critically informed about the ways in which they can transform the world. A major in Economics prepares students to be active participants in addressing the wide range of problems faced by governments, social organisations and the business community in the domestic and international economies. Students who study economics can expect to develop their analytical and problem solving skills and to be intellectually challenged, whether they view the discipline as providing specific vocational skills or as an area of academic and intellectual interest to them. An Economics major is very highly regarded in the business world and opens up a very large range of career prospects in general business, finance and the public sector.

Location**Campus**

Parramatta City Campus-Macquarie Street

Mode

Internal

Specialisation Structure

Qualification for the Economics major requires the successful completion of 80 credit points including all of the core units listed below.

Core Units for this Major

200922.1 Consumers, Firms and Markets
200923.1 Corporations, Economic Power and Policy
200924.2 Cost Benefit Analysis
200916.1 Economic and Financial Modelling
200815.2 Globalisation and Sustainability
200925.1 Growth, Cycles and Crises
200926.1 Macroeconomic Measures and Models
200549.2 The Australian Macroeconomy

Professional Units for Careers in Money

Students undertaking the Economics major are advised to take the following four units to satisfy the requirements for their professional core:

200537.4 Economics and Finance Engagement Project
200917.1 Innovation, Enterprise and Society
200914.1 Working in Professions

Choose one of

200052.6 Introduction to Economic Methods
200032.6 Statistics for Business

Recommended Sequence

Qualification for the award of Bachelor of Business with a major in Economics requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time**Year 1****Autumn session**

200909.2 Enterprise Law
200910.1 Financing Enterprises
200922.1 Consumers, Firms and Markets

Choose one of

200052.6 Introduction to Economic Methods
200032.6 Statistics for Business

Spring session

200549.2 The Australian Macroeconomy
200912.1 Enterprise Leadership
200911.1 Enterprise Innovation and Markets

And one elective

Year 2**Autumn session**

- 200924.2** Cost Benefit Analysis
200914.1 Working in Professions

And two electives

Spring session

- 200916.1** Economic and Financial Modelling
200926.1 Macroeconomic Measures and Models

And two electives

Year 3**Autumn session**

- 200815.2** Globalisation and Sustainability
200923.1 Corporations, Economic Power and Policy
200917.1 Innovation, Enterprise and Society

And one elective

Spring session

- 200925.1** Growth, Cycles and Crises

Enterprise Engaged Unit:

- 200537.4** Economics and Finance Engagement Project

And two electives

Part-time**Year 1****Autumn session**

- 200909.2** Enterprise Law
200911.1 Enterprise Innovation and Markets

Spring session

- 200910.1** Financing Enterprises
200922.1 Consumers, Firms and Markets

Year 2**Autumn session**

- 200549.2** The Australian Macroeconomy

Choose one of

- 200052.6** Introduction to Economic Methods
200032.6 Statistics for Business

Spring session

- 200912.1** Enterprise Leadership

And one elective

Year 3**Autumn session**

- 200924.2** Cost Benefit Analysis

And one elective

Spring session

- 200914.1** Working in Professions

And one elective

Year 4**Autumn session**

- 200926.1** Macroeconomic Measures and Models

And one elective

Spring session

- 200916.1** Economic and Financial Modelling

And one elective

Year 5**Autumn session**

- 200815.2** Globalisation and Sustainability
200917.1 Innovation, Enterprise and Society

Spring session

- 200923.1** Corporations, Economic Power and Policy

And one elective

Year 6**Autumn session**

Enterprise Engaged Unit:

- 200537.4** Economics and Finance Engagement Project

And one elective

Spring session

- 200925.1** Growth, Cycles and Crises

And one elective

Major - Human Resource Management***MT2024.1***

This major (including online) is accredited with the Australian Human Resources Institute (AHR). The Human Resource Management Major is designed for people who seek careers in human resource management and industrial relations. Graduates' careers focus on enhancing the value of human and social capital through supporting employee engagement for many different kinds of organisations, market-oriented and community-oriented organisations and many kinds of people. The teaching philosophy is based on knowledge in action, a fusion of the Australia Human Resource Institute's capabilities for HR professionals and the Western Sydney University Graduate Attributes designed to secure success. An aim of the program is to instil those values and attitudes that can

support leaders in judgements about balancing the pursuit of organisational objectives with creating opportunities for developing people's capacities and careers. The perspectives are local and international, with an emphasis on the value of cultural and demographic diversity. Graduates have knowledge of how leadership and management of people can support organisational objectives and create organisational opportunities. This capacity comes from grounding in human resource management and industrial relations practice using contemporary law and research in applied projects. Students combine this with an education in the pressures organisations experience in inter-disciplinary subjects focused on money, markets and management. That is, graduates develop commercial acumen and appreciate the competing interests around work, aware of trends locally and internationally. Throughout the program, students are challenged to develop and demonstrate communication, cultural, and analytic skills required to be innovative and responsible team-members and leaders.

Location

Campus	Mode
Bankstown Campus	Internal
Campbelltown Campus	Internal
Parramatta City Campus-Macquarie Street	Internal
WSU Online	Multi Modal

Specialisation Structure

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

Core Units for this Major

200614.2	Enterprise Industrial Relations
200740.4	Human Resource and Industrial Relations Strategy
200859.1	Human Resource Development
200621.3	International Human Resource Management
200300.2	Managing People at Work
200613.2	Negotiation, Bargaining and Advocacy
200860.1	People, Work and Society
200739.2	Reward and Performance Management

Professional Units for Careers in Management

Students undertaking the Human Resource Management major are advised to take the following four units to satisfy the requirements for their professional core:

200919.1	Innovation and Professional Practice
301123.1	Management Analytics
200376.3	Managing and Developing Careers
200575.3	Processes and Evaluation in Employment Relations

Note: Students enrolled in MT2024 Human Resource Management are advised that the enterprise engaged unit 200575 Processes and Evaluation in Employment Relations is required for accreditation purposes.

Recommended Sequence

Qualification for the award of Bachelor of Business with a major in Human Resource Management requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time

Year 1

Autumn session

200910.1	Financing Enterprises
200912.1	Enterprise Leadership
200909.2	Enterprise Law
200300.2	Managing People at Work

Spring session

200911.1	Enterprise Innovation and Markets
200859.1	Human Resource Development
301123.1	Management Analytics

And one elective

Year 2

Autumn session

200614.2	Enterprise Industrial Relations
200621.3	International Human Resource Management

And two electives

Spring session

200739.2	Reward and Performance Management
200376.3	Managing and Developing Careers

And two electives

Year 3

Autumn session

200860.1	People, Work and Society
200613.2	Negotiation, Bargaining and Advocacy
200919.1	Innovation and Professional Practice

And one elective

Spring session

200740.4	Human Resource and Industrial Relations Strategy
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Enterprise Engaged Unit:

200575.3	Processes and Evaluation in Employment Relations
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And two electives

Part-time

Year 1

Autumn session

200910.1	Financing Enterprises
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200912.1 Enterprise Leadership**Spring session****301123.1** Management Analytics
200911.1 Enterprise Innovation and Markets**Year 2****Autumn session****200909.2** Enterprise Law
200300.2 Managing People at Work**Spring session****200859.1** Human Resource Development

And one elective

Year 3**Autumn session****200614.2** Enterprise Industrial Relations

And one elective

Spring session**200376.3** Managing and Developing Careers

And one elective

Year 4**Autumn session****200621.3** International Human Resource Management

And one elective

Spring session**200739.2** Reward and Performance Management

And one elective

Year 5**Autumn session****200860.1** People, Work and Society

And one elective

Spring session**200919.1** Innovation and Professional Practice

And one elective

Year 6**Autumn session****200613.2** Negotiation, Bargaining and Advocacy

And one elective

Spring session**200740.4** Human Resource and Industrial Relations Strategy

Enterprise Engaged Unit:

200575.3 Processes and Evaluation in Employment Relations**Major - International Business****MT2025.1**

The global economy is becoming increasingly important for organisations seeking out new opportunities to expand their customer base and develop partnerships. Managers who are well versed in the needs of doing business internationally and who can exploit these opportunities will therefore play an integral role in any such corporation. Building on a solid foundation in domestic business education, including global sustainability, international business strategy, managing in a global environment, and international marketing, this major equips graduates with the detailed knowledge of the international dimension of business and the necessary understanding of the workings of that market system.

Location

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

Specialisation Structure

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

Core Units for this Major

200589.2	Export Strategy and Applications
200815.2	Globalisation and Sustainability
200626.2	International Business Strategy
200094.4	International Marketing
200591.2	Introduction to International Business
200863.1	Leadership and Entrepreneurship
200864.1	Managing in the Global Environment
200098.3	The Markets of Asia

Professional Units for Careers in Markets

Students undertaking the International Business major are advised to take the following four units to satisfy the requirements for their professional core:

200918.1	Design Thinking for Creativity
200590.2	International Business Project
200032.6	Statistics for Business
200915.2	The Service Enterprise

Recommended Sequence

Qualification for the award of Bachelor of Business with a major in International Business requires the successful

completion of 240 credit points as per the recommended sequence below.

Full-time

Year 1

Autumn session

200911.1	Enterprise Innovation and Markets
200912.1	Enterprise Leadership
200591.2	Introduction to International Business
200032.6	Statistics for Business

Spring session

200909.2	Enterprise Law
200910.1	Financing Enterprises
200864.1	Managing in the Global Environment

And one elective

Year 2

Autumn session

200915.2	The Service Enterprise
200815.2	Globalisation and Sustainability

And two electives

Spring session

200589.2	Export Strategy and Applications
200098.3	The Markets of Asia

And two electives

Year 3

Autumn session

200094.4	International Marketing
200918.1	Design Thinking for Creativity
200863.1	Leadership and Entrepreneurship

And one elective

Spring session

200626.2	International Business Strategy
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Enterprise Engaged Unit:

200590.2	International Business Project
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And two electives

Part-time

Year 1

Autumn session

200911.1	Enterprise Innovation and Markets
200909.2	Enterprise Law

Spring session

200910.1	Financing Enterprises
200912.1	Enterprise Leadership

Year 2

Autumn session

200591.2	Introduction to International Business
200032.6	Statistics for Business

Spring session

200864.1	Managing in the Global Environment
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And one elective

Year 3

Autumn session

200815.2	Globalisation and Sustainability
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And one elective

Spring session

200915.2	The Service Enterprise
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And one elective

Year 4

Autumn session

200589.2	Export Strategy and Applications
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And one elective

Spring session

200098.3	The Markets of Asia
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And one elective

Year 5

Autumn session

200094.4	International Marketing
200863.1	Leadership and Entrepreneurship

Spring session

200918.1	Design Thinking for Creativity
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And one elective

Year 6

Autumn session

200626.2	International Business Strategy
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And one elective

Spring session

Enterprise Engaged Unit:

200590.2	International Business Project
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And one elective

Major - Management

MT2026.1

The Management major equips you with the expert skills to create a career as a management specialist. You will be prepared to succeed in a range of roles in contemporary private, public, and not-for-profit organisations in Australia and abroad. In this major you will develop strategic management knowledge to enable effective organisational decision making. The units in this major focus on organisational learning and development and behaviour, operations management, leadership and entrepreneurship, change and innovation, and policy. You can look forward to a range of careers in the broad and complex field of management.

Location

Campus	Mode
Bankstown Campus	Internal
Campbelltown Campus	Internal
Parramatta City Campus-Macquarie Street	Internal
Sydney City Campus	Internal
WSU Online	Multi Modal

Specialisation Structure

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

Core Units for this Major

200158.4	Business, Society and Policy
200862.1	Creating Change and Innovation
200863.1	Leadership and Entrepreneurship
200864.1	Managing in the Global Environment
200865.1	Managing Operations
200585.4	Organisational Behaviour
200157.4	Organisational Learning and Development
200587.2	Strategic Management

Professional Units for Careers in Management

Students undertaking the Management major are advised to take the following four units to satisfy the requirements for their professional core:

200568.3	Contemporary Management Issues
200919.1	Innovation and Professional Practice
301123.1	Management Analytics
200376.3	Managing and Developing Careers

Recommended Sequence

Qualification for the award of Bachelor of Business with a major in Management requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time

Year 1

Autumn session

200910.1	Financing Enterprises
200912.1	Enterprise Leadership
200911.1	Enterprise Innovation and Markets
200585.4	Organisational Behaviour

Spring session

200909.2	Enterprise Law
301123.1	Management Analytics
200864.1	Managing in the Global Environment

And one elective

Year 2

Autumn session

200158.4	Business, Society and Policy
200862.1	Creating Change and Innovation

And two electives

Spring session

200865.1	Managing Operations
200157.4	Organisational Learning and Development
200376.3	Managing and Developing Careers

And one elective

Year 3

Autumn session

200863.1	Leadership and Entrepreneurship
200919.1	Innovation and Professional Practice

And two electives

Spring session

200587.2	Strategic Management
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Enterprise Engaged Unit:

200568.3	Contemporary Management Issues
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And two electives

Part-time

Year 1

Autumn session

200910.1	Financing Enterprises
200912.1	Enterprise Leadership

Spring session

200909.2	Enterprise Law
301123.1	Management Analytics

Year 2**Autumn session**

200911.1 Enterprise Innovation and Markets
200585.4 Organisational Behaviour

Spring session

200864.1 Managing in the Global Environment

And one elective

Year 3**Autumn session**

200158.4 Business, Society and Policy

And one elective

Spring session

200865.1 Managing Operations

And one elective

Year 4**Autumn session**

200862.1 Creating Change and Innovation

And one elective

Spring session

200376.3 Managing and Developing Careers

And one elective

Year 5**Autumn session**

200863.1 Leadership and Entrepreneurship

And one elective

Spring session

200157.4 Organisational Learning and Development

And one elective

Year 6**Autumn session**

200919.1 Innovation and Professional Practice

And one elective

Spring session

200587.2 Strategic Management

Enterprise Engaged Unit:

200568.3 Contemporary Management Issues

Major - Marketing**MT2027.1**

Marketing focuses on the exchange process built around understanding and satisfying the needs and wants of customers. Often this is associated as doing business within a highly competitive business environment, yet marketing strategy is also important for government and not-for-profit organisations. This major introduces students to the core concepts of marketing theory, consumer behaviour, marketing communications, brand management, and marketing strategy. Graduates are equipped with the skills for marketing careers in a range of diverse industries across an international platform. This major satisfies the educational requirements for recognition as a Certified Practising Marketer and eligibility for membership of the Australian Marketing Institute.

Location

Campus	Mode
Bankstown Campus	Internal
Campbelltown Campus	Internal
Parramatta City Campus-Macquarie Street	Internal
Sydney City Campus	Internal
Uni of Economics Ho Chi Minh City	Internal
WSU Online	Multi Modal

Specialisation Structure

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

Core Units for this Major

200088.3	Brand and Product Management
200091.4	Business to Business Marketing
200084.2	Consumer Behaviour
200094.4	International Marketing
200086.3	Marketing Communications
200083.2	Marketing Principles
200592.2	Marketing Research
200087.3	Strategic Marketing Management

Professional Units for Careers in Markets

Students undertaking the Marketing major are advised to take the following four units to satisfy the requirements for their professional core:

200918.1	Design Thinking for Creativity
200096.3	Marketing Planning Project
200032.6	Statistics for Business
200915.2	The Service Enterprise

Recommended Sequence

Qualification for the award of Bachelor of Business with a major in Marketing requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time**Year 1****Autumn session**

200911.1	Enterprise Innovation and Markets
200912.1	Enterprise Leadership
200083.2	Marketing Principles
200032.6	Statistics for Business

Spring session

200910.1	Financing Enterprises
200909.2	Enterprise Law
200084.2	Consumer Behaviour

And one elective

Year 2**Autumn session**

200915.2	The Service Enterprise
200086.3	Marketing Communications

And two electives

Spring session

200088.3	Brand and Product Management
200592.2	Marketing Research

And two electives

Year 3**Autumn session**

200091.4	Business to Business Marketing
200918.1	Design Thinking for Creativity
200094.4	International Marketing

And one elective

Spring session

200087.3	Strategic Marketing Management
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Enterprise Engaged Unit:

200096.3	Marketing Planning Project
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And two electives

Part-time**Year 1****Autumn session**

200911.1	Enterprise Innovation and Markets
200909.2	Enterprise Law

Spring session

200083.2	Marketing Principles
200032.6	Statistics for Business

Year 2**Autumn session**

200912.1	Enterprise Leadership
200084.2	Consumer Behaviour

Spring session

200910.1	Financing Enterprises
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And one elective

Year 3**Autumn session**

200915.2	The Service Enterprise
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And one elective

Spring session

200086.3	Marketing Communications
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And one elective

Year 4**Autumn session**

200592.2	Marketing Research
-----------------	--------------------

And one elective

Spring session

200088.3	Brand and Product Management
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And one elective

Year 5**Autumn session**

200091.4	Business to Business Marketing
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And one elective

Spring session

200918.1	Design Thinking for Creativity
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And one elective

Year 6**Autumn session**

200094.4	International Marketing
200087.3	Strategic Marketing Management

Spring session

Enterprise Engaged Unit:

200096.3	Marketing Planning Project
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And one elective

Major - Accounting

MT2030.1

The Accounting major equips you with the expert skills to create a career as an accounting specialist. You will be prepared to succeed in a range of roles in accounting practices, and also in both public and private enterprises. In this major you will develop in-depth knowledge of accounting, supported by knowledge of law, economics, and finance. Accounting major units focus on the fundamentals of financial and management accounting, as well as accounting information and corporate systems. If you are seeking professional accreditation, you will also undertake specialised units in taxation and audit and assurance. The core units in the Bachelor of Business will provide you a foundation of business knowledge and develop your skills in innovation, career planning, and numeracy. The Accounting major builds on this knowledge and skills in an applied discipline based context. Accountants are in high global demand by enterprises in corporate, public, and not-for-profit sectors. The Bachelor of Business (Accounting) (including online) is accredited with and satisfies the pre-admission educational requirements for membership of CPA Australia (CPA), Chartered Accountants Australia and New Zealand (CAANZ) and the Institute of Public Accountants (IPA). Completion of this degree will allow students to claim a number of exemptions from the Chartered Institute of Management Accountants (CIMA) in obtaining the CIMA Professional Qualification.

Location

Campus	Mode
Bankstown Campus	Internal
Campbelltown Campus	Internal
Parramatta City Campus-Macquarie Street	Internal
Sydney City Campus	Internal
WSU Online	Multi Modal

Specialisation Structure

Students must successfully complete 80 credit points including all of the core units listed below.

Units in the Accounting Major

200972.1	Accounting in Context
200534.3	Accounting Information Systems
200974.1	Accounting Standards and Governance
200535.2	Auditing and Assurance Services
200109.6	Corporate Accounting Systems
200111.3	Financial Accounting Applications
200116.5	Management Accounting Fundamentals
200973.2	Techniques in Financial Accounting

Accreditation Units

Students seeking accreditation with the Australian professional accounting bodies must complete the following four units as part of their elective pool:

200108.2	Contemporary Management Accounting
200488.4	Corporate Financial Management
200183.4	Law of Business Organisations
200187.3	Taxation Law

Note: Students must also complete the Bachelor of Business core units, the Accounting Major as well as a numeracy unit (either 200032 Statistics for Business or 200052 Introduction to Economic Methods) and the Enterprise Engaged Unit 200118 The Accountant as a Consultant to be eligible to apply for professional recognition.

Professional Units for Careers in Money

Students planning to progress to the major in Accounting are advised to take the following four units to satisfy the requirements for their professional core:

200917.1	Innovation, Enterprise and Society
200118.3	The Accountant as a Consultant
200914.1	Working in Professions

Choose one of

200052.6	Introduction to Economic Methods
200032.6	Statistics for Business

Recommended Sequence

Qualification for the award of Bachelor of Business with a major in Accounting requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time

Year 1

Autumn session

200910.1	Financing Enterprises
200909.2	Enterprise Law
200972.1	Accounting in Context

Choose one of

200052.6	Introduction to Economic Methods
200032.6	Statistics for Business

Spring session

200912.1	Enterprise Leadership
200111.3	Financial Accounting Applications
200911.1	Enterprise Innovation and Markets

And one elective

This may include the Accreditation elective unit below

200488.4	Corporate Financial Management
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Year 2

Autumn session

200116.5 Management Accounting Fundamentals
200973.2 Techniques in Financial Accounting
200914.1 Working in Professions

And one elective

Spring session

200974.1 Accounting Standards and Governance
200917.1 Innovation, Enterprise and Society
200534.3 Accounting Information Systems

And one elective

This may include the Accreditation elective unit below

200183.4 Law of Business Organisations

Year 3

Autumn session

200109.6 Corporate Accounting Systems

And three electives

These may include the Accreditation elective units below

200108.2 Contemporary Management Accounting
200187.3 Taxation Law

Spring session

200535.2 Auditing and Assurance Services

Enterprise Engaged Unit:

200118.3 The Accountant as a Consultant

And two electives

Part-time

Year 1

Autumn session

200910.1 Financing Enterprises
200909.2 Enterprise Law

Spring session

200972.1 Accounting in Context

Choose one of

200052.6 Introduction to Economic Methods
200032.6 Statistics for Business

Year 2

Autumn session

200912.1 Enterprise Leadership
200911.1 Enterprise Innovation and Markets

Spring session

200111.3 Financial Accounting Applications
200914.1 Working in Professions

Year 3

Autumn session

200116.5 Management Accounting Fundamentals
200973.2 Techniques in Financial Accounting

Spring session

Two electives

These may include the two Accreditation elective units below

200488.4 Corporate Financial Management
200183.4 Law of Business Organisations

Year 4

Autumn session

200974.1 Accounting Standards and Governance
200917.1 Innovation, Enterprise and Society

Spring session

200534.3 Accounting Information Systems

And one elective

This may include the Accreditation elective unit below

200108.2 Contemporary Management Accounting

Year 5

Autumn session

200109.6 Corporate Accounting Systems

And one elective

This may include the Accreditation elective unit below

200187.3 Taxation Law

Spring session

Two electives

Year 6

Autumn session

200535.2 Auditing and Assurance Services

And one elective

Spring session

Enterprise Engaged Unit:

200118.3 The Accountant as a Consultant

And one elective

Major - Hospitality Management

MT2035.1

The Hospitality Management major is designed to prepare you for a career that goes beyond providing customer 'service' and focuses on providing customer 'experience'. This major equips you with the expert skills required to effectively and efficiently manage hotels, resorts, clubs, food-service enterprises or other service-oriented businesses. The Hospitality Management major units focus on hospitality operations management, planning and design of hospitality facilities, and business management, with opportunities to undertake industry-related projects. Hospitality Management leads to exciting and varied careers across a range of local and international sectors.

Location

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

Specialisation Structure

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

Core Units for this Major

200992.1	Food and Beverage Management
200995.1	Hospitality and Tourism in Practice
200989.1	Hospitality Places and Spaces
200994.1	Hospitality Profitability and Entrepreneurship
200991.1	Service Industry Analytics
200990.1	Special Event Management
200993.1	The Accommodation Industry
200988.1	The Business of Hospitality

Professional Units for Careers in Markets

Students undertaking the Hospitality Management major are advised to take the following four units to satisfy the requirements for their professional core:

200918.1	Design Thinking for Creativity
200561.3	Hospitality Management Applied Project
200032.6	Statistics for Business
200915.2	The Service Enterprise

Recommended Sequence

Qualification for the award of Bachelor of Business with a major in Hospitality Management requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time

Year 1

Autumn session

200911.1	Enterprise Innovation and Markets
200912.1	Enterprise Leadership
200988.1	The Business of Hospitality
200032.6	Statistics for Business

Spring session

200909.2	Enterprise Law
200910.1	Financing Enterprises
200992.1	Food and Beverage Management

And one elective

Year 2

Autumn session

200915.2	The Service Enterprise
200993.1	The Accommodation Industry
200990.1	Special Event Management

And one elective

Spring session

200989.1	Hospitality Places and Spaces
200918.1	Design Thinking for Creativity

And two electives

Year 3

Autumn session

200991.1	Service Industry Analytics
200994.1	Hospitality Profitability and Entrepreneurship

And two electives

Spring session

200995.1	Hospitality and Tourism in Practice
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Enterprise Engaged Unit:

200561.3	Hospitality Management Applied Project
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And two electives

Part-time

Year 1

Autumn session

200911.1	Enterprise Innovation and Markets
200909.2	Enterprise Law

Spring session

200910.1	Financing Enterprises
200032.6	Statistics for Business

Year 2

Autumn session

200988.1	The Business of Hospitality
200912.1	Enterprise Leadership

Spring session**200992.1** Food and Beverage Management

And one elective

Year 3**Autumn session****200915.2** The Service Enterprise**200993.1** The Accommodation Industry**Spring session****200994.1** Hospitality Profitability and Entrepreneurship

And one elective

Year 4**Autumn session****200990.1** Special Event Management

And one elective

Spring session**200989.1** Hospitality Places and Spaces

And one elective

Year 5**Autumn session**

Two electives

Spring session**200918.1** Design Thinking for Creativity

And one elective

Year 6**Autumn session****200991.1** Service Industry Analytics

And one elective

Spring session**200995.1** Hospitality and Tourism in Practice

Enterprise Engaged Unit:

200561.3 Hospitality Management Applied Project**Major - Sport Management****MT2036.1**

The Sport Management major is designed for people who seek careers in Australian and international Sport management. Specialist units provide students with a capacity to understand and function within the increasingly dedicated context in which sport is played, organised and

managed. Students who complete this major will be equipped with the skills and knowledge to manage sport experiences pertaining to globalisation and emerging contemporary issues in sport. Graduates find career employment at all levels of government as well as within the private sector for both commercial and non-commercial organisations. Positions include project management of facilities and events, management and coordination of leisure, sport and civic event departments, sport marketing, player management and sport public relations, elite sport development, sport and leisure programming.

Location

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

Specialisation Structure

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

Core Units for this Major

200997.1	Developing Sport Professionals
201001.1	Our Sporting Future
200991.1	Service Industry Analytics
200990.1	Special Event Management
200999.1	Sport and Society
200996.1	Sport Entertainment
200998.1	Strategic Sport Leadership
201000.1	The World of Sport Business

Professional Units for Careers in Markets

Students undertaking the Sport Management major are advised to take the following four units to satisfy the requirements for their professional core:

200918.1	Design Thinking for Creativity
200751.2	Sport Management Applied Project
200032.6	Statistics for Business
200915.2	The Service Enterprise

Recommended Sequence

Qualification for the award of Bachelor of Business with a major in Sport Management requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time**Year 1****Autumn session**

200911.1	Enterprise Innovation and Markets
200912.1	Enterprise Leadership
201000.1	The World of Sport Business
200032.6	Statistics for Business

Spring session

200910.1	Financing Enterprises
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200909.2 Enterprise Law
200996.1 Sport Entertainment

And one elective

Year 2

Autumn session

200915.2 The Service Enterprise
200999.1 Sport and Society
200990.1 Special Event Management

And one elective

Spring session

200997.1 Developing Sport Professionals
200918.1 Design Thinking for Creativity

And two electives

Year 3

Autumn session

200998.1 Strategic Sport Leadership
200991.1 Service Industry Analytics

And two electives

Spring session

201001.1 Our Sporting Future

Enterprise Engaged Unit:

200751.2 Sport Management Applied Project

And two electives

Part-time

Year 1

Autumn session

200911.1 Enterprise Innovation and Markets
200909.2 Enterprise Law

Spring session

200910.1 Financing Enterprises
200912.1 Enterprise Leadership

Year 2

Autumn session

201000.1 The World of Sport Business
200032.6 Statistics for Business

Spring session

200996.1 Sport Entertainment

And one elective

Year 3

Autumn session

200915.2 The Service Enterprise
200999.1 Sport and Society

Spring session

Two electives

Year 4

Autumn session

200990.1 Special Event Management

And one elective

Spring session

200918.1 Design Thinking for Creativity

And one elective

Year 5

Autumn session

200998.1 Strategic Sport Leadership

And one elective

Spring session

200997.1 Developing Sport Professionals

And one elective

Year 6

Autumn session

200991.1 Service Industry Analytics

And one elective

Spring session

201001.1 Our Sporting Future

Enterprise Engaged Unit:

200751.2 Sport Management Applied Project

Major - Game Programming

MT3012.1

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must successfully complete 80 credit points as follows

300565.2 Computer Networking
300093.7 Computer Graphics
200025.2 Discrete Mathematics
300570.3 Human-Computer Interaction

- 301173.1** Special Effects Programming
300582.5 Technologies for Web Applications
300862.2 Video Games Development

Choose one of

- 300147.4** Object Oriented Programming
300581.4 Programming Techniques

Major - Game Design

MT3013.1

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must successfully complete 80 credit points as follows

- 102261.2** Graphic Design: Understanding the Principles

Note: Unit 102261 Graphic Design: Understanding the Principles is a 20 credit point unit.

- 102276.1** Graphic Design: Developing a Personal Portfolio
101922.1 Web and Time-based Design
300570.3 Human-Computer Interaction
102273.2 Motion Design
300862.2 Video Games Development
102317.1 Visual Effects

Sub-major - Music Performance Studies

SM1047.1

The Music Performance Studies submajor provides students from outside the Music program with a thorough grounding in a variety of group music making practices as well as offering the framework for self-directed musical projects. A number of approaches to writing about music performance are also covered, from theoretical approaches to proposal and review writing. Studies of stagecraft and collaboration further inform students in the music performance stream, who are also encouraged to discover and develop new hybrids.

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Music Performance Studies sub-major are existing music units offered only to students external to the B. Music. B. Music students complete a different configuration of units as a Music Performance sub-major.

Students must complete the following compulsory units

- 102553.1** Music Performance 1
102554.1 Music Performance 2

Choose two of

- 102556.1** Expanded Music Performance
102555.1 Music Group Performance
102557.1 Repertoire and Identity in Performance
101539.4 The Composer-Performer

Equivalent Specialisation Units

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

- 101521 - Collaboration and Live Music Performance
 101524 - Free and Notated Music Performance
 101525 - Introduction to Music Performance
 101533 - Music Performance: Repertoire and Identity
 101535 - Sound and Performance: Expanded Practice

Sub-major - Indigenous Australian Studies

SM1049.1

What does it mean to live in Indigenous Australia? The Indigenous Australian Studies sub-major offers students the exciting opportunity to acquire key cultural competencies that will enable them to understand and work more effectively with Indigenous Australians in professions such as the arts, communications, media industries; education; government and non-government; policy; health; sciences; and community services. The Indigenous Australian Studies sub-major addresses the cultural, historical, social and economic issues affecting Indigenous and Non-Indigenous Australians and relationships.

Location

Campus	Mode
Bankstown Campus	Internal
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must successfully complete 40 credit points from the units below.

Students must complete the following compulsory unit

- 101751.2** Contextualising Indigenous Australia (Day Mode)

Students must also complete 3 units from the following Level 2/3 pool

Level 2 units

- 101754.3** From Corroborees to Curtain Raisers (Day Mode)
101755.2 From Ochre to Acrylics to New Technologies

- 101752.2** Pigments of the Imagination
101753.3 Revaluating Indigenous Economics (Day Mode)

Level 3 units

- 101756.2** Bridging the Gap: Re-engaging Indigenous Learners
100961.4 Humanities Internship
101758.2 Learning through Indigenous Australian Community Service (Day Mode)
101759.2 Rethinking Research with Indigenous Australians: Independent Study Project (Day Mode)
101757.2 The Making of the 'Aborigines'

Sub-major - Musicology**SM1065.1**

The Musicology submajor provides students from outside the Music program with an introduction to Western classical music and its history, and popular and classical musics in the twentieth and twenty-first centuries. It offers perspectives on modernism, postmodernism and post-postmodernism, and incorporates social, political and philosophical critiques of music.

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Choose four of the following units

- 102573.1** Music and Critical Thought
102429.1 Music Careers Research
102551.1 Music, Culture and Discourse
102547.1 Popular Music Histories
102552.1 The Politics of Australian Music
102546.1 Western Art Music History

Equivalent Specialisation Units

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

- 101523 - Cultural Paradigms and Music
 101528 - Modes and Codes of Music Production
 101742 - Music and Philosophy
 101740 - Music History 1
 101741 - Music History 2
 101532 - Music in Theory and Practice
 102427 - Western Art Music 1
 102428 - Western Art Music 2

Sub-major - Cultural and Social Analysis**SM1070.1**

Cultural and Social Analysis is an interdisciplinary sub-major developing knowledge, research skills and analytic capacities relevant to understanding and interpreting landscapes of cultural diversity and social difference in our contemporary world, both in terms of the broad contours, as well as specific micro-social environments. This sub-major provides grounding in contemporary debates and methodologies in cultural studies and social theory, and draws on various disciplines including history, sociology, communications, and linguistics. Topics include popular culture, everyday urban life, cultural and social impacts of scientific theories and new technologies, multiculturalism, and contemporary spirituality. Study in this area is relevant for work involving commentary and analysis of contemporary social issues and cultural practices (e.g. journalism, teaching, activism) and fields concerned with designing, delivering and evaluating cultural and artistic productions, and education, communication, welfare or health services, in culturally diverse communities.

Location

Campus	Mode
Bankstown Campus	Internal
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must successfully complete 40 credit points as follows.

Please note all Bachelor of Arts students including Pathways to Teaching, Dean's Scholars and double degrees must complete the structure under the heading Bachelor of Arts.

Please note all Bachelor of Creative Industries students including double degrees must complete the structure under the heading Bachelor of Creative Industries.

This specialisation is available to students in other Western Sydney University Courses. If the specialisation is available on your campus, the course structure allows space for enrolment in the specialisation and pre-requisite requirements can be met, please follow the structure under the heading Bachelor of Arts. Consult your Course Advisor for further advice.

Note: Not all units will be offered each year. Units will be offered on a rotational basis.

Bachelor of Arts Students

Arts students must choose at least two of the following four units:

- 102410.2** Digital Cultures
100897.2 Everyday Life
101906.2 Researching Culture
101979.1 Understanding Visual Culture

Bachelor of Creative Industries Students

Creative Industries students will have already completed 100897 Everyday Life as their Introduction to Major unit as part of the core requirements of the course and must choose at least two from the following three units:

102410.2	Digital Cultures
101906.2	Researching Culture
101979.1	Understanding Visual Culture

Pool Units

Additional units to complete the sub major can be chosen from the following pool units.

Note: Not all Units will be offered each year. Units will be offered on a rotational basis.

Level 2 Unit Pool

102192.1	Cinema and Censorship
101967.1	Cultural History of Books and Reading
101250.3	Digital Futures
102425.1	Digital Humanities and Research Methods (UG)
100964.3	Introduction to Film Studies
100882.3	Politics of Sex and Gender
101917.1	Representing Everyday Life in Literary and Visual Cultures
101990.1	The Racial State
101989.1	Thinking Cinema
100291.5	Urban Life/Urban Culture
100298.3	Youth Cultures and Moral Panics

Level 3 Unit Pool

101981.1	Activism, Engagement and Social Change
101265.3	Children's Culture
101626.5	Children's Literature: Image and Text
101984.1	Cinema and Experience
101870.1	Climate Change and Culture
102413.1	Consumer Culture
102185.1	Culture, Discourse and Meaning
102479.1	Cultures of Crime and Punishment
102529.1	Cyber Justice (UG)
100996.3	Death and Culture
100860.3	Emotions, Culture and Community
100866.3	Film and Drama
102305.1	Food: A Cultural History
101716.3	Healing and Culture
101991.1	History of Sexuality
101988.1	Human Rights and Culture
100961.4	Humanities Internship
101468.2	Islam, Media and Conflict
101985.1	Politics, Power and Resistance
101987.1	Postcolonial Australian Cinema
102191.1	Queer Culture
101005.4	Representing Crime
101009.4	The Body in Culture
101848.1	Transnationalism and Migration
101731.3	Understanding Power
101898.1	Violence in Everyday Life
101010.3	What is the Human?

Please note

The Level 2 and 3 units listed below count towards completion of the sub-major for students from 2015 or earlier, who may have previously passed these units.

Level 2 units

101409 - Aboriginal Cultural Texts
100845 - Contemporary Popular Cultures
101408 - Critical Discourse Analysis
SS238A - Genres
101251 - Introduction to Psychoanalysis
100273 - New Ethnicities, Old Racisms
G2006 - Race, Community and National Identity in Australia
100884 - Social Inequalities
100886 - Special Topics in Cultural and Social Analysis
100889 - Technocultures
10371 - The Art Museum-from the Prince to the Public
101411 - Theories of Representation
101879 - Women with Muslim Identity

Level 3 units

101295 - Aesthetics
400087 - Applied Critical Methods
100988 - Chaos and Communication
100990 - Cinema, Culture, Memory
100992 - Communication: Power and Practice
100994 - Consumer Culture
100858 - Culture and Globalisation
100998 - Evolutionary Thinking
101844 - Feminist Theories
100999 - Gender at Work
101955 - Honours Foundation
101739 - Literature and Trauma
101732 - Media, The Everyday and Uneven Modernities
101800 - Media, Violence, Protest, Terror
101252 - Psychoanalytic Criticism
101253 - Public Memory and Commemoration
101003 - Religion and Culture
101006 - Social Semiotics
101007 - Story Links and Indigenous Knowledge
101832 - Talking Normal: Sociolinguistics and Modern Literature
101008 - Technologies of Racism
101738 - The Art Game: Fraud, Forgery, Theft and Perfidy
101798 - Understanding Freedom

Sub-major - English**SM1071.1**

The English sub-major invites students to explore contemporary approaches to language, literary study and writing, including literary criticism and theory, linguistic analysis, genre and textual study, and creative writing. The

English sub-major focuses on the imaginative workings of language, and students can study a wide selection of modern and classic literature, as well as the relationships between written texts and other media such as film and information technology. Students also have the opportunity to produce their own creative writing and to edit and publish their work. Career prospects include publishing, editing, teaching, writing and advertising.

Location

Campus	Mode
Bankstown Campus	Internal
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must successfully complete 40 credit points as follows.

Please note all Bachelor of Arts students including Pathways to Teaching, Dean's Scholars and double degrees must complete the structure under the heading Bachelor of Arts.

Please note all Bachelor of Creative Industries students including double degrees must complete the structure under the heading Bachelor of Creative Industries.

This specialisation is available to students in other Western Sydney University courses. If the specialisation is available on your campus, the course structure allows space for enrolment in the specialisation and pre-requisite requirements can be met, please follow the structure under the heading Bachelor of Arts. Consult your Course Advisor for further advice.

Note: Not all units will be offered each year. Units will be offered on a rotational basis.

Bachelor of Arts Students

Arts students must choose at least two of the following four units:

100641.3	Approaches to Text
101976.2	English Literature After 1830
101907.1	Introduction to Literary Studies
101909.1	Methods of Reading

Additional units to complete the sub-major can be chosen from the above four units or from the pool units listed below.

Bachelor of Creative Industries Students

Creative Industries students will have already completed 101907 Introduction to Literary Studies as their Introduction to Major unit as part of the core requirements of the course and must choose at least two from the following three units:

100641.3	Approaches to Text
101976.2	English Literature After 1830
101909.1	Methods of Reading

Additional units to complete the sub-major can be chosen from the above three units or from the pool units listed below.

Pool Units

Note: Not all units will be offered each year. Units will be offered on a rotational basis.

Level 2 Unit Pool

100900.4	Comedy and Tragedy
101967.1	Cultural History of Books and Reading
100584.2	Experimental Writing and Electronic Publication
100964.3	Introduction to Film Studies
102572.1	Literature and Decolonisation
101978.1	Modern Australian Poetry and Poetics
101917.1	Representing Everyday Life in Literary and Visual Cultures
101964.1	Sexual/Textual Politics in Victorian Women's Writing
102507.1	The Gothic
101795.3	The Musical
102414.1	Working Grammar
100896.3	Writing Fiction

Level 3 Unit Pool

101796.1	19th Century American Literature
102099.1	20th Century American Literature
100849.4	Australian Textual Studies
102205.1	Children's and Young Adult Fiction
101626.5	Children's Literature: Image and Text
101984.1	Cinema and Experience
100856.4	Creative Non-Fiction
100859.3	Creative Writing Project
102315.1	Crime Fiction
102185.1	Culture, Discourse and Meaning
100866.3	Film and Drama
100961.4	Humanities Internship
102186.1	Introduction to Stylistics
102416.1	Law, Literature and Culture
101724.2	Literary Animals
100875.4	Literature and Philosophy
101739.3	Literature and Trauma
101033.4	Modernism
101001.3	Modernity and Cinema
102434.1	Postcolonial Literatures: Partition, Dependence and Exile
101650.3	Race in Literature
102078.1	Reading Ireland in the 1990s: Fiction, Poetry, Drama
101005.4	Representing Crime
101791.2	Short Fiction in the Americas
100893.4	The Novel
101880.1	The Space of Literature
101977.1	Women, Travel and Empire
102374.1	Women's Writing
101669.3	World Literature in Translation
101908.1	Writing and Reading Sci Fi and Fantasy
101670.3	Writing and Society
100895.4	Writing For Performance
101011.3	Writing Poetry

Note: The Level 3 unit 100961 Humanities Internship cannot count towards completion of SM1129 English Teaching Specialisation (Birth-5/Birth-12) or M1126 Education Studies Major - Primary English Teaching Specialisation for students enrolled in courses 1708 Bachelor of Arts (Pathway to Teaching Birth - 5/Birth - 12),

1651 Bachelor of Arts (Pathway to Teaching Primary), 1822 Bachelor of Arts (Pathway to Teaching Primary) Dean's Scholars, 6017 Diploma in Arts/Bachelor of Arts (Pathway to Teaching Birth-5/Birth-12), 6019 Diploma in Arts/Bachelor of Arts (Pathway to Teaching Primary) as this would not satisfy the professional accreditation requirements for NESAs.

Please note

The Level 2 and 3 units listed below count towards completion of the Major for students from 2016 or earlier, who may have previously passed these units.

Level 2 units

100993 - Constructions of the Script
101408 - Critical Discourse Analysis
SS238A - Genres
101452 - History of the English Language
100870 - Hypertext Fictions
101986 - International Texts and Contexts
100880 - Poetry and Poetics
100505 - Special Topics in English, Text and Writing
101869 - Studies in Postcolonial Literature
101873 - The Sound of Language
101455 - The Structure of English

Level 3 units

100845 - American Literature
400087 - Applied Critical Methods
101242 - Childrens Literature
100256 - Film and Affect
101000 - hom/e/scapes
101955 - Honours Foundation
100874 - Literature, History and Culture
101966 - Literatures of Decolonisation
101406 - Queering Text
101006 - Social Semiotics
101832 - Talking Normal: Sociolinguistics and Modern Literature
101453 - Text and Discourse in English
101668 - World Cinema
101471 - Women in Arabic and Islamic Literature
100582 - Writing Portfolio

Sub-major - History and Political Thought

SM1072.1

Since the revival of humanist thought in the Renaissance, universities have placed studies in history and political thought at the centre of exploring what it is to be human. At the heart of the History and Political Thought sub-major are two compulsory units which introduce the student to the modern (since 1500) history of humanity. Although Europe is very prominent in the sub-major, the student will be invited to compare its history to the histories of Asia, Africa and the Americas. The sub-major culminates in a capstone unit in students' final semester discussing historical theories

and methods. A wide range of elective units covers European, American, Australian and Asian history and political thought and includes thematic units which range widely over time and place.

Location

Campus	Mode
Bankstown Campus	Internal
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

To complete a sub-major in History and Political Thought, students must successfully complete 40 credit points from the units listed below.

Choose at least two of the following four units

101910.1	Global History
102000.1	Modern European History and Politics
101992.1	Religion and the Emergence of Modern Politics
102001.1	Theories and Methods of History

Additional units to complete the sub-major can be chosen from the above four units, or from the following Level 2 and 3 unit pools.

Note: Not all units will be offered each year. Units will be offered on a rotational basis.

Level 2 Unit Pool

101882.1	A History of Modern Global Buddhism
100244.2	Ancient Western Culture: Periclean Athens
101973.1	Australian Politics
101967.1	Cultural History of Books and Reading
100861.3	Empire: European Colonial Rule and its Subjects, 1750-1920
100001.3	Keeping the Past
101797.2	Political Terror
100882.3	Politics of Sex and Gender
102002.1	Religion and the Origins of Modern Science
101867.2	The Ethical Life
101912.1	Western Political Philosophy

Level 3 Unit Pool

100985.2	American Foreign Policy Since 1945
100966.3	American History, 1898-1945
102004.1	Australian Colonial History
102516.1	Australian History Around Us
101872.1	Australian Indigenous History from Federation to Reconciliation
101919.1	Australian Indigenous History: From first contact to 'dying race'
102079.1	Britain in the Age of Botany Bay, 1760-1815
102492.1	Catastrophe: The Environmental History of the Ancient and Modern World
102003.1	Comparative Nationalism
101799.2	Convicts and Settlers - Australian History 1788 - 1840
100903.2	Democracy in Asia
102188.1	Dictators, Democrats and Dreamers: Indonesia 1942 to now
101974.1	Enlightenment and Revolution

102007.1	Ethics in Historical Perspective
100254.3	Exploring Local History
102305.1	Food: A Cultural History
102520.1	From Vindication to Liberation: A Comparative History of Feminism
101735.2	Global Politics
102006.2	Histories of Crime and Punishment
101991.1	History of Sexuality
100507.4	History of Modern China to 1949
102184.1	History of Muslim Civilisations and Ideas
100961.4	Humanities Internship
101988.1	Human Rights and Culture
102522.1	International Study Tours
101733.2	Looking at Global Politics Through Film
100271.3	Modern Japanese History
102495.1	Mystical Islam: The Emergence of Sufism in World History
102343.1	Napoleon: the Making of a Legend
102493.1	Philosophy of History
100278.2	Politics of Post-War Japan
101985.1	Politics, Power and Resistance
63178.2	Social and Political Developments in Contemporary China
102187.1	Sultans, Colonists and Nationalists: Indonesia C1200-1942
101782.2	The History and Politics of Contemporary Central Asia
102491.1	The History of Southeast Asia
101783.2	The International Relations of the Middle East Since 1945
102005.1	The Politics of Civilisation
101913.1	Theories of Authority
100969.2	Theories of Conflict and Violence
101999.1	Twentieth Century Australia
101798.2	Understanding Freedom
101731.3	Understanding Power
101866.1	United States Government and Politics
102423.1	War
101993.1	War and Society in the Twentieth Century
102142.1	Warlords, Artists and Emperors: Power and Authority in Japanese History
101830.2	WWII in Asia and the Pacific
101010.3	What is the Human?

Please note

The Level 2 and Level 3 units listed below count towards completion of the sub-major for students who passed any of these units in 2015 or earlier.

Level 2 Units

100248	- Australian Labour History
101407	- Britain 1500-1800: Before Botany Bay
100852	- Classics of Modern Philosophy
100853	- Contemporary Australia
100869	- Foundations of Modern Europe 1500-1800
101543	- India: Global Contexts
100878	- Meanings of a Commonwealth - English Political Ideas 1500-1800
101843	- Philosophy and Environment
100904	- Politics and Business in Asia
100277	- Politics of Australia and Asia Relations
101972	- The History of Modern Indonesia
101294	- The Western Philosophical Tradition

100892 - The Westminster System: England's Constitutional Culture

101871 - War

101737 - World Politics: An Introduction

Level 3 Units

101295 - Aesthetics

100957 - Alternative Histories: The State and Civil Society in Australian History

100987 - Australian History since 1920

100991 - Citizenship Ancient and Modern

100992 - Communication: Power and Practice

101249 - Culture and Thought in Twentieth-Century China

100860 - Emotions, Culture and Community

100864 - Europe in the Twentieth Century

101844 - Feminist Theories

101674 - Global Histories of Food

100963 - Interpreting Australia: Australian Historians and Historiography

101801 - Interpreting Fascism

101823 - Lay Participation in Justice Processes (replaced by 102006)

100875 - Literature and Philosophy

100275 - Philosophies of Love and Death

100879 - Philosophy Today

100908 - Race Politics

100284 - Special Topics in Australian History

100887 - Sport and Australian History

101667 - The External Relations of the European Union

101405 - The Politics of Contemporary Indonesia

101831 - Transport and the Making of the Modern World

101375 - War and Peace

100971 - Which New World Order?

100894 - World War 1

Sub-major - International Relations and Asian Studies**SM1073.1**

This sub-major has been designed to meet the needs of Australian government, business and society to engage the states and peoples of Asia at all levels in pursuit of national interests and as part of the globalisation process. It provides students with the opportunity to study contemporary Asia, as well as the rich and diverse histories, politics, cultures and languages of Asian countries and the international issues affecting Australia's interests and role in the region and in the world at large. The sub-major area also includes a range of units concerned with the United States and Europe as well as with Asia itself, and units in international relations covering other parts of the world. It seeks to produce graduates with a broad, liberal education with the skills to mediate between Australia and the world in general and Asia in particular through political, economic, commercial, cultural, diplomatic and strategic links. Employment opportunities may be

found in the State and Commonwealth public service, overseas organisations, the media, business and industry, education and research.

Location

Campus	Mode
Bankstown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

To complete a sub-major in International Relations and Asian Studies, students must complete 40 credit points from the units listed below.

Choose two of

101442.2	Asia in the World
101956.1	Introduction to International Relations
100277.4	Politics of Australia and Asia Relations
101957.2	The Asian Century

Additional units to complete the sub-major can be chosen from the above four units, or from the following pool units.

Note: Not all units will be offered each year. Units will be offered on a rotational basis.

Level 2 Unit Pool

101882.1	A History of Modern Global Buddhism
101968.1	Civil Society in Contemporary China
100861.3	Empire: European Colonial Rule and its Subjects, 1750-1920
101797.2	Political Terror

Level 3 Unit Pool

100985.2	American Foreign Policy Since 1945
100903.2	Democracy in Asia
102188.1	Dictators, Democrats and Dreamers: Indonesia 1942 to now
101735.2	Global Politics
100507.4	History of Modern China to 1949
100961.4	Humanities Internship
102189.1	International Organisations and Global Governance
102190.1	International Relations of Southeast Asia
102193.1	International Special Study
102522.1	International Study Tours
101467.2	Islam in Southeast Asia
101733.2	Looking at Global Politics Through Film
100271.3	Modern Japanese History
100278.2	Politics of Post-War Japan
63178.2	Social and Political Developments in Contemporary China
102187.1	Sultans, Colonists and Nationalists: Indonesia C1200-1942
102491.1	The History of Southeast Asia
101783.2	The International Relations of the Middle East Since 1945
102005.1	The Politics of Civilisation
101866.1	United States Government and Politics
102423.1	War
102142.1	Warlords, Artists and Emperors: Power and Authority in Japanese History
101830.2	WWII in Asia and the Pacific

Please note

The Level 2 and level 3 units listed below count towards completion of the sub-major for students who passed any of these units in 2015 or earlier.

101737 - World Politics: An Introduction (Level 1)

Level 2

100872 - Asia and the West: the Imperial Encounter
100245 - Asian Cinema
100850 - Buddhism in the Contemporary World
100855 - Contemporary Japan: Culture and Society
101857 - Doing Business in China
100847 - International Politics of North Asia
100904 - Politics and Business in Asia
63111 - Special Topics in Asian and International Studies
101972 - The History of Modern Indonesia
101871 - War

Level 3

400087 - Applied Critical Methods
101249 - Culture and Thought in Twentieth Century China
101543 - India: Global Contexts
100962 - International Politics of the South East Asia Region
101667 - The External Relations of the European Union
101963 - Understanding Global Insecurity
101375 - War and Peace
100971 - Which New World Order?

Sub-major - Philosophy

SM1076.1

Philosophy has always asked the “big questions” about our lives. These are questions, for example, about the limits of our knowledge, the best way that humans can live together, how we understand the world around us, and what is the good life. A philosophy sub-major will enable students to develop particular skills and attributes - such as clear thinking, capacities to assess arguments and values, sound understanding of important philosophical views that have always been essential to university scholarship, and which continue to be valuable for graduates in both public and private life.

Location

Campus	Mode
Bankstown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

To complete a sub-major in Philosophy, students must complete 40 credit points. At least two units must come from the following four foundation units

102570.1	Books that Changed how we Think
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101915.1	Ethics and Philosophy
101918.1	Introduction to Philosophy
102571.1	Thinkers That Changed the World

Additional units to complete the sub-major can be chosen from the above four units, or from the following pool units.

Note: Not all units will be offered each year. Units will be offered on a rotational basis.

Level 2 Unit Pool

100244.2	Ancient Western Culture: Periclean Athens
101881.2	Philosophy and the Good Life
101867.2	The Ethical Life
101989.1	Thinking Cinema
101983.1	Truth and Knowledge
101912.1	Western Political Philosophy

Level 3 Unit Pool

101295.2	Aesthetics
102420.1	Classics of Modern Philosophy
102007.1	Ethics in Historical Perspective
100961.4	Humanities Internship
100875.4	Literature and Philosophy
100275.4	Philosophies of Love and Death
102417.1	Philosophy and Environment
102493.1	Philosophy of History
101965.1	Philosophy of Religion
100969.2	Theories of Conflict and Violence
101913.1	Theories of Authority
101798.2	Understanding Freedom
101731.3	Understanding Power
101010.3	What is the Human?

Please note

The Core units and the Level 2 and 3 pool units listed below count towards completion of the major for students who may have passed units in the list below in 2017 or earlier.

Core units

101916 - Case Studies in Philosophy: Text
101914 - Case Studies in Philosophy: Thinker
102415 - Key Philosophers
102419 - Philosophy in Focus

Level 2

100852 - Classics of Modern Philosophy
101843 - Philosophy and Environment

Level 3

101844 - Feminist Theories

Sub-major - Arabic

SM1077.1

Language specialisations aim to enable students to develop an appropriate level of proficiency in a second language, which may be used for professional purposes such as teaching, interpreting and translation, business or international relations. Students undertaking a language

specialisation will be able to use the language in question according to its grammatical and pragmatic principles, communicate with native speakers appropriately in the spoken as well as the written mode, and demonstrate an understanding of the cultures and societies associated with the language.

Location

Campus	Mode
Bankstown Campus	Internal

Specialisation Structure

There are three entry levels into language sub-majors. Beginner's level is for those with no previous study or minimal study of the language. Intermediate level is typically for students who: are non-native speakers with study of the language to HSC 2 Unit level or have a home background in the language but no comprehensive formal study, or who speak a non-standard variety (e.g. dialect). Post-Intermediate level is typically for students who are non-native speakers with substantial formal study and near-native competence; or are literate native speakers of a standard variety. Students should consult with the Languages staff regarding the progression sequence that best fits their level of skill. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher or lower class. Students may consult with the Languages Academic Course Advisor, if they are unsure of their entry level. Students should avoid enrolling in units at different levels at the one time (e.g. you should not enrol in Arabic 201 and 301 at the same time). Please check the current timetable as some units may not be offered every year. Advanced (Level 3) units may be offered on a rotational basis.

A sub-major in Arabic is any sequence of 40 credit points with no more than 20 credit points at Level 1.

Students should take units that reflect their level of competence in the language and they should not backtrack, i.e. they must not:

- take a Level 1 unit after passing a Level 2 unit in the same language; or
- take a Level 2 unit after passing a Level 3 unit in the same language.

Level 1 units

100041.2	Arabic 101
100042.2	Arabic 102

Level 2 units

102019.1	Arabic 201
102020.1	Arabic 202
102021.1	Arabic 203
102022.1	Arabic 204

Level 3 units

101949.2	Arabic 301
100048.2	Arabic 302 - Arabic Advanced Language and Grammar
100049.2	Arabic 303: Advanced Writing Skills
100050.2	Arabic 304: Arabic Advanced Speaking

100052.2	Arabic 306: Arabic Novel and Short Story
100054.2	Arabic 308: Language Past and Present
101950.1	Intercultural Communication
100201.3	Special Study in Languages and Linguistics

Advanced entry level Arabic students may complete the following Level 1 pool units. The units will be recognised as Level 3 pool units for the purpose of specialisation completion.

100194.2	Introduction to Interpreting
100195.2	Introduction to Translation

Please note

The Level 3 units listed below count towards completion of the sub-major for students who may have passed units in the list below in 2015 or earlier.

- 100051 - Arabic 305: Araboc Contemporary Culture
- 101454 - International Pragmatics
- 101709 - Languages and Grammatical Concepts 3A: Arabic
- 101792 - Texts in Contemporary Arab Society and Culture
- 101668 - World Cinema

Inherent Requirements

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

Sub-major - Chinese

SM1078.1

Language specialisations aim to enable students to develop an appropriate level of proficiency in a second language which may be used for professional purposes such as teaching, interpreting and translation, business or international relations. Students undertaking a language specialisation will be able to use the language in question according to its grammatical and pragmatic principles, communicate with native speakers appropriately in the spoken as well as the written mode, and demonstrate an understanding of the cultures and societies associated with the language.

Location

Campus	Mode
Bankstown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

There are three entry levels into language sub-majors. Beginner's level is for those with no previous study or minimal study of the language. Intermediate level is typically for students who: are non-native speakers with study of the language to HSC 2 Unit level or have a home background in the language but no comprehensive formal study, or who speak a non-standard variety (eg dialect). Post-Intermediate level is typically for students who are non-native speakers with substantial formal study and near-

native competence; or are literate native speakers of a standard variety. Students should consult with the Languages staff regarding the progression sequence that best fits their level of skill. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher or lower class. Students may consult with Languages Course Advisor, if they are unsure of their entry level. Students should avoid enrolling in units at different levels at the one time (eg: you should not enrol in Chinese 201 and 301 at the same time). Please check the current timetable as some units may not be offered every year. Advanced (Level 3) units may be offered on a rotational basis.

A sub-major in Chinese is any sequence of 40 credit points with no more than 20 credit points at Level 1.

Students should take units that reflect their level of competence in the language and they should not backtrack, i.e. they must not:

- take a Level 1 unit after passing a Level 2 unit in the same language; or
- take a Level 2 unit after passing a Level 3 unit in the same language.

Level 1 units

100056.2	Chinese 101
100057.2	Chinese 102

Level 2 units

102024.1	Chinese 201
102025.1	Chinese 202
102026.1	Chinese 203
102027.1	Chinese 204

Level 3 units

101951.1	Chinese 301
100063.2	Chinese 302
100064.2	Chinese 303: Twentieth-Century Chinese Literature
100065.2	Chinese 304: Chinese Classical Literature
100066.2	Chinese 305: Chinese Cinema
100510.2	Chinese 306: Traditional Chinese Thought
100067.2	Chinese 307: The Cultural Context of China
101950.1	Intercultural Communication
100201.3	Special Study in Languages and Linguistics

Advanced entry level Chinese students may complete the following Level 1 pool units. The units will be recognised as Level 3 pool units for the purpose of specialisation completion.

100194.2	Introduction to Interpreting
100195.2	Introduction to Translation

Please note

The Level 3 units listed below count towards completion of the sub-major for students who may have passed units in the list below in 2015 or earlier.

- 101454 - International Pragmatics
- 101710 - Languages and Grammatical Concepts 3A: Chinese
- 101668 - World Cinema

Inherent Requirements

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

Sub-major - Japanese

SM1080.1

Language specialisations aim to enable students to develop an appropriate level of proficiency in a second language which may be used for professional purposes such as teaching, interpreting and translation, business or international relations. Students undertaking a language specialisation will be able to use the language in question according to its grammatical and pragmatic principles, communicate with native speakers appropriately in the spoken as well as the written mode and demonstrate an understanding of the cultures and societies associated with the language.

Location

Campus	Mode
Bankstown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

There are three entry levels into language sub-majors. Beginner's level is for those with no previous study or minimal study of the language. Intermediate level is typically for students who: are non-native speakers with study of the language to HSC 2 Unit level or have a home background in the language but no comprehensive formal study. Post-Intermediate level is typically for students who are non-native speakers with substantial formal study and near-native competence; or are literate native speakers of the language. Students should consult with the Languages staff regarding the progression sequence that best fits their level of skill. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher or lower class. Students may consult with the Languages Course Advisor, if they are unsure of their entry level. Students should avoid enrolling in units at different levels at the one time (e.g. you should not enrol in Arabic 201 and 301 at the same time). Please check the current timetable as some units may not be offered every year. Advanced (Level 3) units may be offered on a rotational basis.

A sub-major in Japanese is any sequence of 40 credit points with no more than 20 credit points at Level 1.

Students should take units that reflect their level of competence in the language and they should not backtrack, i.e. they must not:

- take a Level 1 unit after passing a Level 2 unit in the same language; or
- take a Level 2 unit after passing a Level 3 unit in the same language

Level 1 units

100085.2	Japanese 101
100086.3	Japanese 102

Level 2 units

102028.1	Japanese 201
102029.1	Japanese 202: Speaking and Listening
102030.1	Japanese 203
102031.1	Japanese 204

Level 3 units

101952.1	Japanese 301
100092.3	Japanese 302
100093.2	Japanese 303: Contemporary Culture and Society
101970.1	Japanese 304: Discourse in Japanese
101971.1	Japanese 305: Advanced Reading and Writing
102219.1	Japanese 306: Japanese Popular Culture
101950.1	Intercultural Communication
100201.3	Special Study in Languages and Linguistics

Advanced entry level Japanese students may complete the following Level 1 pool units. The units will be recognised as Level 3 pool units for the purpose of specialisation completion.

100194.2	Introduction to Interpreting
100195.2	Introduction to Translation

Please note

The Level 3 units listed below count towards completion of the sub-major for students who may have passed units in the list below in 2015 or earlier.

- 101454 - Intercultural Pragmatics
- 100096 - Japanese 306: Japanese for Business
- 100098 - Japanese 308: Japanese Textual Studies
- 101668 - World Cinema
- 101669 - World Literature in Translation

Inherent Requirements

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

Sub-major - Geography and Urban Studies

SM1093.1

Students in this sub-major examine the geography of contemporary Australian cities and regions. Geography is the integrated study of people, places and environments. The cutting edge interests of today's Geographers include post-colonialism, the emergence of global information economies, indigenous issues, class and cultural disparities, population movement, sexuality and space, and the global diffusion of popular culture. Urban Studies is a newer discipline focused on social justice within the city,

through its critical assessments of peoples' access to scarce urban resources, such as housing, transport, education and employment. The political, economic, and cultural forces that shape cities and urban policy are the key concerns of the Urban Studies curriculum. These applied interests in urban well-being and city structure are the intellectual basis for the Urban Planning profession. The Geography and Urban Studies sub-major is a compulsory component of the University's accredited Planning course.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must complete four of the following units

Year 1

Autumn session

101589.2 Cities: Introduction to Urban Studies

Year 2

Autumn session

101590.2 Cultural and Social Geographies

Spring session

101591.2 The Economics of Cities and Regions
101646.2 Analysis of Spatial Data

Year 3

Autumn session

101593.3 Planning the City: Development, Community and Systems
101645.2 Transport, Access and Equity

Spring session

101694.2 Geographies of Migration
101905.2 Indigenous Cultures: A Global Perspective

Sub-major - Indonesian

SM1112.1

Language specialisations aim to enable students to develop an appropriate level of proficiency in a second language, which may be used for professional purposes such as teaching, interpreting and translation, business or international relations. Students undertaking a language specialisation will be able to use the language in question according to its grammatical and pragmatic principles, communicate with native speakers appropriately in the spoken as well as the written mode, and demonstrate an

understanding of the cultures and societies associated with the language.

Location

Campus	Mode
Bankstown Campus	Internal

Specialisation Structure

There are three entry levels into language sub-majors. Beginners level is for those with no previous study or minimal study of the language. Intermediate level is typically for students who: are non-native speakers with study of the language to HSC 2 Unit level or have a home background in the language but no comprehensive formal study, or who speak a non-standard variety (e.g. dialect). Post-intermediate level is typically for students who are non-native speakers with substantial formal study and near-native competence; or are literate native speakers of a standard variety. Students should consult with the Languages staff regarding the progression sequence that best fits their level of skill. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher or lower class. Students may consult with the Languages Academic Course Advisor, if they are unsure of their entry level. Students should avoid enrolling in units at different levels at the one time (e.g. you should not enrol in Indonesian 201 and 301 at the same time). Please check the current timetable as some units may not be offered every year. Advanced (Level 3) units may be offered on a rotational basis.

A sub-major in Indonesian is any sequence of 40 credit points with no more than 20 credit points at Level 1.

Students should take units that reflect their level of competence in the language and they should not backtrack, i.e. they must not:

- take a Level 1 unit after passing a Level 2 unit in the same language; or
- take a Level 2 unit after passing a Level 3 unit in the same language.

Level 1 units

102316.1 Indonesian 101
102326.1 Indonesian 102

Level 2 units

102319.2 Indonesian 201
102327.1 Indonesian 202

Level 3 units

102320.1 Indonesian 301: Indonesian for Academic Purposes
102328.1 Indonesian 302: Indonesian for Professional Purposes
102329.1 Indonesian 303: Indonesian for Business
102330.1 Indonesian 304: Contemporary Indonesia
102331.1 Indonesian 305: Past and Present of Indonesian
102332.1 Indonesian 306: Indonesian Literature
101950.1 Intercultural Communication
100201.3 Special Study in Languages and Linguistics

Inherent Requirements

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

Sub-major - Creative Writing

SM1116.1

The Creative Writing sub-major provides students the opportunity to produce their own creative writing and to edit and publish their work. Students study with professional authors, editors and publishers from the Writing and Society Research Centre and staff from the School of Humanities and Communication Arts. In addition, students have the opportunity to study contemporary approaches to language and literary studies, including literary criticism and theory, linguistic analysis, genre and textual study, and to read and examine a wide selection of modern and classic literatures.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must successfully complete 40 credit points as follows.

Please note all Bachelor of Arts students including Pathways to Teaching, Dean's Scholars and double degrees must complete the structure under the heading Bachelor of Arts.

Please note all Bachelor of Creative Industries students including double degrees must complete the structure under the heading Bachelor of Creative Industries.

This specialisation is available to students in other Western Sydney University courses. If the specialisation is available on your campus, the course structure allows space for enrolment in the specialisation and pre-requisite requirements can be met, please follow the structure under the heading Bachelor of Arts. Consult your Course Advisor for further advice.

Note: Not all units will be offered each year. Units will be offered on a rotational basis.

Bachelor of Arts Students

Arts students must choose at least two of the following four units:

102437.1	Creative Writing: Practical Skills and Knowledge
102436.2	Creative Writing: The Imaginative Life
102435.1	Editing and Publishing
100582.3	Writing Portfolio

Additional units to complete the sub-major can be chosen from the above four units or from the pool units listed below.

Bachelor of Creative Industries Students

Creative Industries students will have already completed 102436 Creative Writing: The Imaginative Life as their Introduction to Major unit as part of the core requirements of the course and must choose at least two from the following three units

102437.1	Creative Writing: Practical Skills and Knowledge
102435.1	Editing and Publishing
100582.3	Writing Portfolio

Additional units to complete the sub-major can be chosen from the above three units or from the pool units listed below.

Pool Units

Note: Not all units will be offered each year. Units will be offered on a rotational basis.

Level 2 Unit Pool

100900.4	Comedy and Tragedy
100584.2	Experimental Writing and Electronic Publication
102572.1	Literature and Decolonisation
101978.1	Modern Australian Poetry and Poetics
101917.1	Representing Everyday Life in Literary and Visual Cultures
101964.1	Sexual/Textual Politics in Victorian Women's Writing
102507.1	The Gothic
101795.3	The Musical
102414.1	Working Grammar
100896.3	Writing Fiction

Level 3 Unit Pool

101796.1	19th Century American Literature
102099.1	20th Century American Literature
100849.4	Australian Textual Studies
102205.1	Children's and Young Adult Fiction
101626.5	Children's Literature: Image and Text
100856.4	Creative Non-Fiction
100859.3	Creative Writing Project
102315.1	Crime Fiction
100866.3	Film and Drama
100961.4	Humanities Internship
102186.1	Introduction to Stylistics
102416.1	Law, Literature and Culture
101724.2	Literary Animals
101033.4	Modernism
102434.1	Postcolonial Literatures: Partition, Dependence and Exile
101650.3	Race in Literature
102078.1	Reading Ireland in the 1990s: Fiction, Poetry, Drama
101005.4	Representing Crime
101791.2	Short Fiction in the Americas
100893.4	The Novel
101880.1	The Space of Literature
101977.1	Women, Travel and Empire
102374.1	Women's Writing
101669.3	World Literature in Translation
101908.1	Writing and Reading Sci Fi and Fantasy
101670.3	Writing and Society

100895.4 Writing For Performance
101011.3 Writing Poetry

Note: The Level 3 unit 100961 Humanities Internship cannot count towards completion of SM1129 English Teaching Specialisation (Birth-5/Birth-12) or M1126 Education Studies Major - Primary English Teaching Specialisation for students enrolled in courses 1708 Bachelor of Arts (Pathway to Teaching Birth - 5/Birth - 12), 1651 Bachelor of Arts (Pathway to Teaching Primary), 1822 Bachelor of Arts (Pathway to Teaching Primary) Dean's Scholars, 6017 Diploma in Arts/Bachelor of Arts (Pathway to Teaching Birth-5/Birth-12), 6019 Diploma in Arts/Bachelor of Arts (Pathway to Teaching Primary) as this would not satisfy the professional accreditation requirements for NESAs.

Please note

The Level 2 and 3 units listed below count towards completion of the sub-major for students from 2016 or earlier, who may have previously passed these units.

Level 2 units

101869 - Studies in Postcolonial Literature

Level 3 units

101966 - Literatures of Decolonisation

Sub-major - Linguistics

SM1119.1

Language is fundamental to the human experience. Through study of how language works, students make contact with fundamental philosophical, socio-cultural, and psychological questions about what it means to be human. Linguistics prepares students with a foundation for many careers including primary and secondary teaching, policy analysis, communication, and social services in culturally diverse communities. Linguistics students also gain the analytical tools of empirical science including the ability to break complex problems into components with tractable solutions and to evaluate theories on the basis of empirical facts. These skills prepare students for success in post-graduate studies and careers in research, analytics, business and law.

Location

Campus	Mode
Bankstown Campus	Internal

Specialisation Structure

To complete a sub-major in Linguistics, students must complete 40 credit points from the units listed below.

Choose at least two units from the following core units

101449.2 Bilingualism and Biculturalism
101945.2 Introduction to Linguistics
102489.1 Meaning in Language
101451.2 Second Language Acquisition
101948.3 Structure of Language
102042.1 The Sound of Language

The other two units may be selected from the above list or from the pool units below

Level 2 Unit Pool

102490.1 Pragmatics

Level 3 Unit Pool

101946.1 Discourse Analysis
102043.1 Historical Linguistics
101950.1 Intercultural Communication
100023.6 Psychology of Language
102044.1 Research Methods in Linguistics
101450.2 Sociolinguistics

Please note:

The Level 2 and Level 3 units listed below count towards completion of the sub-major for students who passed units in the list below in 2015 or earlier.

Level 2

100194 - Introduction to Interpreting - [level 1]
100195 - Introduction to Translation - [level 1]
101947 - Pragmatics [level 2]
101873 - The Sound of Language [level 2]

Level 3

400087 - Applied Critical Methods
101441 - English Semantics and Pragmatics
101454 - Intercultural Pragmatics
101709 - Languages and Grammatical Concepts 3A: Arabic
101710 - Languages and Grammatical Concepts 3A: Chinese
101711 - Languages and Grammatical Concepts 3A: Italian
101712 - Languages and Grammatical Concepts 3A: Japanese
101713 - Languages and Grammatical Concepts 3A: Spanish
101721 - Second Language Learning and Teaching
101832 - Talking Normal: Sociolinguistics and Modern Literature
101453 - Text and Discourse in English

Sub-major - International English

SM1120.1

International English examines English in its many varieties with a focus on the international development of this language, extending far beyond native English speakers, and identifying features of the language essential to academic and professional performance. The sub-major provides a basis for international students who may intend to teach English in different countries, or enter other language-centred professions, or for local students intending to pursue post-graduate qualifications in education or wanting to improve English skills. The sub-major provides studies in the varieties and structures of

English, informed by specific studies in linguistics, English teaching and bilingualism and language acquisition.

Location

Campus	Mode
Bankstown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must successfully complete 40 credit points as follows

Students must complete the following compulsory unit:

102438.1 English as an International Language

And students must complete three units from the following pools

Level 1 Unit Pool

101945.2 Introduction to Linguistics
102042.1 The Sound of Language

Level 2 Unit Pool

102439.1 English Language Analysis
102475.1 Language Assessment and Testing
102489.1 Meaning in Language
102490.1 Pragmatics
101948.3 Structure of Language
102474.1 TESOL Teaching Methodology
102414.1 Working Grammar

Level 3 Unit Pool

101449.2 Bilingualism and Biculturalism
102476.1 English Language Linguistics
101950.1 Intercultural Communication
100023.6 Psychology of Language
101451.2 Second Language Acquisition
101450.2 Sociolinguistics
102477.1 TESOL Curriculum Design
102478.1 TESOL Placement

Sub-major - Immersion Language

SM1128.1

This sub-major is designed for students wanting to learn a language through an in-country experience. Living in a foreign country, learning the formalities of the language, studying its society and culture, and interacting with the local people on a daily basis enables a student to develop confidence in the use of the language. Students will develop an appropriate level of proficiency in a second language that may be used for professional purposes such as teaching, business or international relations. Students undertaking this language specialisation will be able to use the language in question according to basic grammatical and pragmatic principles, communicate with native speakers appropriately in the spoken as well as the written mode, and demonstrate an understanding of the cultures

and societies associated with the language. This sub-major covers languages that are not taught at Western Sydney University and must be studied as part of an approved study abroad programme in the country where the language studied is one of the nominated national spoken and written languages.

Location

Campus	Mode
Bankstown Campus	External
Parramatta Campus - Victoria Road	External
Penrith Campus	External

Specialisation Structure

Students would be eligible for this sub-major after successfully completed 40 credit points selected from the following Language and Society and Culture units.

Language units

Choose two units of formal language study selected from the following:

102607 - Immersion Language Beginner 101
102608 - Immersion Language Beginner 102
102609 - Immersion Language Heritage Background 201
102610 - Immersion Language Heritage Background 202
102611 - Immersion Language Native Speaker 301
102612 - Immersion Language Native Speaker 302

Society and Culture units

Complete the following two units of study related to the society and culture of the country in which the language is being studied. These units may be taught in English or the local language. The areas covered may be practical or theoretical in topics such as history, geography, politics, art, drama, film, cultural studies.

102613 - Immersion Society and Culture 301
102614 - Immersion Society and Culture 302

Sub-major - International English

SM1132.1

International English examines English in its many varieties with a focus on the international development of this language, extending far beyond native English speakers, and identifying features of the language essential to academic and professional performance. The sub-major provides a basis for international students who may intend to teach English in different countries, or enter other language-centred professions, or for local students intending to pursue post-graduate qualifications in education or wanting to improve English skills. The major provides studies in the varieties and structures of English, informed by specific studies in linguistics, grammar and English in particular discourse settings.

Location

Campus	Mode
Bankstown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must complete the following four compulsory units:

102438.1	English as an International Language
102439.1	English Language Analysis
102476.1	English Language Linguistics
101945.2	Introduction to Linguistics

Sub-major - Property Investment**SM2050.1**

The Property Investment sub-major is available to all undergraduate students other than those completing the Property Key Program or Major. This sub-major assists students in the finance and related areas who want to expand their expertise in property investment.

Location

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

Specialisation Structure

Students must complete four units as follows.

200874.1	Property Development Process
200875.1	Property Finance
200749.2	Property Investment
200873.1	Property Portfolio Management

Sub-major - Systems Administration**SM3001.1**

This sub-major is available to students who commenced prior to 2013.

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Students must complete the following four units

300103.4	Data Structures and Algorithms
300165.4	Systems Administration Programming
300167.4	Systems Programming 1
300149.3	Operating Systems

Please note: 300149 Operating Systems is replaced by 300698 Operating Systems Programming.

300698.4 Operating Systems Programming

Sub-major - Mathematics**SM3025.1**

This sub-major is available to all students. This sub-major may meet the NSW Institute of Teachers accreditation requirements for teaching Mathematics as a second subject in NSW state high schools.

Location

Campus	Mode
Campbelltown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Student must complete 40 credit points as follows

300672.2	Mathematics 1A
300673.2	Mathematics 1B

Choose two of

200028.3	Advanced Calculus
200030.4	Differential Equations
200027.3	Linear Algebra

Sub-major - Entertainment Computing**SM3052.1**

This sub-major will deal with a broad focus on the technical and theoretical knowledge of design and development of software applications in the field of Entertainment Computing.

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Student must complete 40 credit points as follows

300093.7	Computer Graphics
300491.2	Games Technology
300580.3	Programming Fundamentals
300862.2	Video Games Development

Sub-major - Social Media Analytics**SM3053.1**

Social media is the pulse of the world. Analysing the enormous amount of data generated by such sites as Facebook, Twitter and LinkedIn can be used to inform business decisions and understand how and why society reacts to certain situations. This sub-major will introduce the statistical methods needed to analyse the data from these sites so that businesses are able to use the customer feedback received about their products to inform their business strategy and the impact social media has on society.

Location

Campus	Mode
Campbelltown Campus	Internal
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must complete 40 credit points as follows

300580.3	Programming Fundamentals
300961.3	Social Computing
300958.2	Social Web Analytics

Choose one of

200263.5	Biometry
300700.6	Statistical Decision Making
200032.6	Statistics for Business

Sub-major - IT Support**SM3054.1**

The sub-major prepares students to work with, train and support other people in their use of technology. With its practical orientation, it provides a sound foundation in information technology and computing particularly through learning by direct hands-on experience in class, laboratories and in real-world work experience sites. It is for people who want to work with computers within the IT (Information Technology) industry. This sub-major is only available to students enrolled in the 3639 Bachelor of Information and Communications Technology or 3684 Bachelor of Information and Communications Technology (Advanced).

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Student must complete 40 credit points as follows

300136.4	I.T. Support Practicum
300138.3	LAN Workshop
300150.3	PC Workshop

And choose one of

200083.2	Marketing Principles
300167.4	Systems Programming 1

Sub-major - Networking**SM3055.1**

The Networking sub-major provides the students with the basic knowledge for analysis, design, and implementation of networked systems. It offers the students the opportunity to develop the technical skills needed for management and secure operation of the most commonly used networks.

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Student must complete 40 credit points as follows

300565.2	Computer Networking
300095.5	Computer Networks and Internets

And choose two of

300575.2	Networked Systems Design
300143.4	Network Security
300166.3	Systems and Network Management
300952.2	Wireless and Mobile Networks
300957.2	Parallel and Distributed Computing

Please note unit 300597 will no longer be available from 2018. Students should may take unit 300569 Computer Security OR 301124 Ethical Hacking Principles and Practice instead.

300569.2	Computer Security
301124.2	Ethical Hacking Principles and Practice

Sub-major - Web Application Development (for Computing Students)**SM3056.1**

This sub-major provides a specialisation in developing systems specifically for the world wide web. The sub-major will enable students to develop systems for their own business or seek employment with a business that requires or already has a web presence. The sub-major is only available to students enrolled in the Bachelor of Computing or Bachelor of Information and Communications Technology courses.

Location

Campus	Mode
Campbelltown Campus	Internal
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Student must complete 40 credit points as follows

300111.2	Developing Web Applications with XML
300130.4	Internet Programming
300582.5	Technologies for Web Applications
300583.3	Web Systems Development

Sub-major - Mobile Computing**SM3057.1**

This sub-major covers theories and technologies used for the development of distributed applications for hand-held mobile devices. Students completing this major will understand and apply the advanced principles related to mobile: hardware devices, user interface design, data storage and transmission, and communication networks. This submajor is only available to students enrolled in 3639 BICT, 3684 BICT (Adv), 3506 B Computer Science, 3634 B Computer Science (Adv), 3687 B Information Systems or 3688 B Information Systems (Adv).

Location

Campus	Mode
Campbelltown Campus	Internal
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Student must complete 40 credit points as follows

300570.3	Human-Computer Interaction
300960.4	Mobile Applications Development
300976.1	Technologies for Mobile Applications
300952.2	Wireless and Mobile Networks

**Sub-major - Mobile Application Development
(for Non-Computing Students only)****SM3058.1**

This sub-major covers theories and technologies used for the development of distributed applications for hand-held mobile devices. Students completing this major will understand and apply the advanced principles related to mobile: hardware devices, user interface design, data storage and transmission, and communication networks. This sub-major is only available for non-computing

students. Students enrolled in 3639 BICT, 3684 BICT (Adv), 3506 B Computer Science, 3634 B Computer Science (Adv), 3687 B Information Systems or 3688 B Information Systems (Adv) are not permitted to take this sub-major.

Location

Campus	Mode
Campbelltown Campus	Internal
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must complete 40 credit points as follows

300104.4	Database Design and Development
300570.3	Human-Computer Interaction
300976.1	Technologies for Mobile Applications
300580.3	Programming Fundamentals

Sub-major - Systems Security**SM3077.1**

This sub-major is only available to students enrolled in the Bachelor of Computing, Bachelor of Information Systems or Bachelor of Information and Communications Technology courses.

Location

Campus	Mode
Penrith Campus	External

Specialisation Structure

Students must complete the following four units

300128.5	Information Security
300143.4	Network Security
300698.4	Operating Systems Programming
300167.4	Systems Programming 1

**Sub-major - Web Application Development
(for Non-Computing Students)****SM3078.1**

This sub-major is available to all undergraduate students except those enrolled in the Bachelor of Computing or Bachelor of Information and Communications Technology courses.

Location

Campus	Mode
Penrith Campus	External

Specialisation Structure

Student must complete 40 credit points as follows

- 300580.3** Programming Fundamentals
300582.5 Technologies for Web Applications
300583.3 Web Systems Development

Choose one of

- 300569.2** Computer Security
300104.4 Database Design and Development
300111.2 Developing Web Applications with XML
300570.3 Human-Computer Interaction

Sub-major - Astroinformatics**SM3080.1**

This sub-major aims to produce graduates with excellent computing skills, a thorough grounding in astronomy, and experience in using computers to solve complex, challenging scientific problems. Modern astronomy is strongly driven by large datasets, which require advanced computing procedures to analyse. Students will learn about the science of stars, planets and galaxies; the use of computers in science; and how to formulate and solve challenging problems in modern science using high-level computer skills.

Location

Campus	Mode
Campbelltown Campus	Internal
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must complete 40 credit points as follows

- 300916.2** Astroinformatics
300672.2 Mathematics 1A
300580.3 Programming Fundamentals
300966.1 The Cosmos in Perspective: Information and Life

Sub-major - Visualisation**SM3084.1****Location**

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Students must complete 40 credit points as follows.

Core Units

- 301074.2** Graphics 1: 2D and 3D Industrial Design Communication
301076.1 Graphics 2: Visual Simulation
301079.1 Graphics 3: 3D Engineering Specifications and Visualisation

Alternate Unit

- 301091.1** Graphics 4: Kinetic Narratives

Sub-major - Human-Computer Interaction**SM3085.1****Location**

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Students must complete 40 credit points as follows.

Core Unit

- 300570.3** Human-Computer Interaction

Alternate Units

- 300580.3** Programming Fundamentals
300976.1 Technologies for Mobile Applications
301088.1 Tangible Interaction Design

Sub-major - Industrial Manufacturing**SM3086.1****Location**

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Students must complete 40 credit points as follows.

Core Units

- 301082.1** Design Management 2: Operation and Supply Chain
301076.1 Graphics 2: Visual Simulation
301079.1 Graphics 3: 3D Engineering Specifications and Visualisation

Alternate Unit

- 301093.1** Design Management 1: Process and Manufacturing

Sub-major - Design Management

SM3087.1

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Students must complete 40 credit points as follows.

Core Units

301082.1	Design Management 2: Operation and Supply Chain
300014.3	Design Management 3: Organisational Skills for Designers

Alternate Units

301093.1	Design Management 1: Process and Manufacturing
301094.1	Design Management 4: Strategy and Lean Start-Up

Sub-major - Responsible Design and Sustainability

SM3088.1

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Students must complete 40 credit points as follows.

Core Units

301095.1	Sustainable Design 1: Materials and Technology
301081.2	Sustainable Design 2: Product Service Systems

Alternate Units

301094.1	Design Management 4: Strategy and Lean Start-Up
101184.3	Psychology: Human Behaviour

Sub-major - Statistics

SM3089.1

This sub-major covers topics in statistics from an introductory level to exploring complex statistical techniques that are used to analyse and interpret data generated in

many disciplines. Students considering undertaking further postgraduate research studies in any discipline should consider taking this sub-major as part of their undergraduate degree. This sub-major is open to all undergraduate students.

Location

Campus	Mode
Campbelltown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

The Statistics sub-major is available to all Western Sydney University undergraduate students except those enrolled in the 3679 Bachelor of Science (Mathematical Science) course.

Student must complete 40 credit points as follows

Choose one of

200263.5	Biometry
300700.6	Statistical Decision Making
200032.6	Statistics for Business

Choose three of

301035.1	Environmental Informatics
301033.1	Introduction to Data Science
301032.1	Making Sense of Data
301034.1	Predictive Modelling

Sub-major - Health Informatics

SM3090.1

This sub-major will deal with the application of approaches, tools and techniques and the development of programs appropriate for Health Information systems. This sub-major is available to all students except those enrolled in the 3711 Bachelor of Information and Communications Technology (Health Information Management) course.

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Students must complete the following four units

300950.2	Fundamentals of Medical Concepts and Terminology
300955.1	Healthcare Data Environments
300956.1	Healthcare Software and Systems
300566.2	Introduction to Health Informatics

Sub-major - Construction Economics

SM3094.1

This sub-major is a requirement for membership of the Australian Institute of Quantity Surveyors and is a useful course of study for those interested in the area of cost control and project planning.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must successfully complete four of the following six specialist units

200503.2	Construction Information Systems
300726.2	Estimating 2
301158.1	Modern Construction Enterprises
301159.1	Modern Construction Projects
200487.3	Quantity Surveying 2
300748.2	Quality and Value Management

Sub-major - Networking

SM3095.1

The Networking sub-major provides students with the basic knowledge for analysis, design, and implementation of networked systems. It offers students the opportunity to develop the technical skills needed for management and secure operation of the most commonly used networks.

Location

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

Specialisation Structure

Student must complete 40 credit points as follows

300565.2	Computer Networking
300095.5	Computer Networks and Internets

And choose two of

300569.2	Computer Security
301124.2	Ethical Hacking Principles and Practice
300575.2	Networked Systems Design
300143.4	Network Security
300166.3	Systems and Network Management
300952.2	Wireless and Mobile Networks

Sub-major - Advanced Game Programming

SM3096.1

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must successfully complete 40 credit points as follows

300104.4 Database Design and Development

Choose one of

300103.4 Data Structures and Algorithms
300672.2 Mathematics 1A

Choose one of

300096.6 Computer Organisation
300673.2 Mathematics 1B

Choose one of

301174.1 Artificial Intelligence
300960.4 Mobile Applications Development

Sub-major - Advanced Game Design

SM3097.1

Location

Campus	Mode
Parramatta Campus - Victoria Road	Multi Modal
Penrith Campus	Internal

Specialisation Structure

Students must successfully complete 40 credit points as follows

102263.3 Image Design
101927.1 Foundations of Media Arts and Production
102265.1 Graphic Design: Interactive Digital Media

Note: Unit 102265 Graphic Design: Interactive Digital Media is a 20 credit point unit.

Sub-major - Cloud Computing

SM3101.1

This sub-major equips graduates with technical skills and theoretical knowledge in the area of cloud computing. This will enable graduates to act not only as operators of cloud

infrastructures but also to design cloud solutions for clients based on best practices in the field and deep understanding of underlying technologies and concepts.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must complete 40 credit points as follows

301204.2	Cloud Computing Architecture
301203.1	Introduction to Cloud Computing

And choose two units from the following

300569.2	Computer Security
300115.3	Distributed Systems and Programming
301124.2	Ethical Hacking Principles and Practice
300143.4	Network Security

Sub-major - Structures

SM3065.1

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

This sub-major is only available to students enrolled in 3740 Bachelor of Engineering (Honours) or 3689 Bachelor of Engineering - Civil or Construction key programs only.

Student must complete 40 credit points from the units listed below:

300986.1	Applied Mechanics
300987.1	Composite Structures
300988.1	Highway Infrastructure
300990.1	Pile Foundations
300739.2	Timber Structures (UG)

Sub-major - Geotechnical

SM3066.1

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

This sub-major is only available to students enrolled in 3740 Bachelor of Engineering (Honours) or 3689 Bachelor of Engineering - Civil key program only.

Student must complete the following four units

300988.1	Highway Infrastructure
300989.1	Hydrogeology

300990.1	Pile Foundations
300994.1	Waste Management

Sub-major - Water and Environment

SM3067.1

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

This sub-major is only available to students enrolled in 3740 Bachelor of Engineering (Honours) or 3689 Bachelor of Engineering - Civil key program only.

Student must complete 40 credit points from the units listed below

300991.1	Statistical Hydrology
300989.1	Hydrogeology
300993.1	Water Resource Engineering
300992.1	Water and Wastewater Treatment
300994.1	Waste Management
300798.1	Sustainability and Risk Engineering

Sub-major - Construction Economics

SM3068.1

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

This sub-major is only available to students enrolled in 3740 Bachelor of Engineering (Honours) or 3689 Bachelor of Engineering - Construction key program only.

Student must complete the following four units

200503.2	Construction Information Systems
300726.2	Estimating 2
200487.3	Quantity Surveying 2
300748.2	Quality and Value Management

Sub-major - Telecommunications

SM3069.1

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

This sub-major is only available to students enrolled in 3740 Bachelor of Engineering (Honours) or 3689 Bachelor of Engineering - Electrical key program only.

Student must complete 40 credit points from the units listed below

300997.1	Data Communications
300019.4	Digital Systems 2
300029.3	Engineering Visualization
300489.2	Radio and Satellite Communication
300065.5	Wireless Communications

Sub-major - Power Engineering

SM3070.1

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

This sub-major is only available to students enrolled in 3740 Bachelor of Engineering (Honours) or 3689 Bachelor of Engineering - Electrical key program only.

Student must complete the following four units

300019.4	Digital Systems 2
300995.1	Power Quality
300996.1	Smart Grids and Distributed Generation
300998.1	Sustainable Energy Systems

Sub-major - Automation

SM3072.1

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

This sub-major is only available to students enrolled in 3740 Bachelor of Engineering (Honours) or 3689 Bachelor of Engineering - Mechanical key program only.

Student must complete the following four units

300999.1	Computational Fluid Dynamics
300570.3	Human-Computer Interaction
300044.2	Microcontrollers and PLCs
300043.4	Mobile Robotics

Sub-major - Thermal and Fluid Systems

SM3074.1

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

This sub-major is only available to students enrolled in 3740 Bachelor of Engineering (Honours) or 3689 Bachelor of Engineering - Robotics & Mechatronics key program only.

Student must complete the following four units

300999.1	Computational Fluid Dynamics
300762.2	Fluid Mechanics
300760.1	Thermodynamics and Heat Transfer
300759.1	Thermal and Fluid Engineering

Sub-major - Biomedical Engineering

SM3091.1

The Biomedical Engineering sub-major includes elements from the bioelectronics, biomechanical and biomechatronic specialisations. This allows students to undertake multidisciplinary study within engineering, which combines knowledge from electronics, chemical, materials, mechanical and mechatronic engineering with the life sciences of medicine, biology and molecular biology. Graduates will be equipped with professional skills to work in biomedical industry as engineers, with a good understanding of multidisciplinary principles and practices.

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

This sub-major is only available to students enrolled in 3740 Bachelor of Engineering (Honours) or 3689 Bachelor of Engineering - Electrical, Mechanical and Robotics & Mechatronics key programs only.

Student must complete the following four units

401140.1	Biomechanics
301122.1	Biomedical Electronics
301121.1	Biomedical Signals and Data Analysis
300361.3	Introduction to Human Biology

Sub-major - Computer Aided Design (Mechanical)

SM3092.1

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

This sub-major is only available to students enrolled in 3740 Bachelor of Engineering (Honours) or 3689 Bachelor of Engineering - Mechanical key program only.

Student must complete the following four units

300999.1	Computational Fluid Dynamics
301076.1	Graphics 2: Visual Simulation
301091.1	Graphics 4: Kinetic Narratives
301081.2	Sustainable Design 2: Product Service Systems

Sub-major - Computer Aided Design (Mechatronics)

SM3093.1

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

This sub-major is only available to students enrolled in 3740 Bachelor of Engineering (Honours) or 3689 Bachelor of Engineering - Robotics & Mechatronics key program only.

Student must complete the following four units

301000.2	Computer Aided Engineering
300029.3	Engineering Visualization
301076.1	Graphics 2: Visual Simulation
301079.1	Graphics 3: 3D Engineering Specifications and Visualisation

SCHOOL OF SCIENCE AND HEALTH

Bachelor of Science

3754.1

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2020 or later.

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

Science asks questions about how the natural world works and the impact of humans at its interface. It does so in a systematic, yet rigorously creative way based on inquiry and evidence. A Bachelor of Science will prepare you to take part in this process of inquiry, by both contributing to it and by using scientific knowledge to solve current problems in broad settings. Students will learn core concepts and skills investigating the natural world, proposing and testing ideas by experimentation and observation; quantifying and modelling processes; communicating findings, thinking independently and critically. Students can enrol in this degree and select from a range of scientific disciplines with the option of expanding learning into other areas outside of science.

Students need to note that different majors are offered on different campuses, and not all majors will be offered at every campus.

Study Mode

Three years full-time or Six years part-time.

Location

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

Admission

Assumed Knowledge: Students should have at least two unit English, and two unit science (any science) and two unit mathematics at year 12 equivalent.

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

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

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

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

International applicants must apply directly to the University via the International Office. International students applying to the University through the International Office can find details of minimum English proficiency requirements and acceptable proof on their website.

Course Structure

Qualification for this award requires the completion of 240 credit points which includes eight core units plus eight units taken as a Science specialisation plus eight elective units.

All students must complete 60 credit points at level 3 or above. Depending on the specialisation selected, students may need to select at least 10 credit points of elective study at Level 3 to meet this requirement.

Core Units

All students are required to complete the following three units:

300811.1	Scientific Literacy
300808.2	Introductory Chemistry
300802.2	Biodiversity

Students are allocated a core unit from the following areas depending on the specialisation chosen. Students should consult the sequence of units identified for each specialisation.

Foundation

Choose one of

300816.1	Cell Biology
300803.1	Essential Chemistry 2

Mathematics

Choose one of

300831.3	Quantitative Thinking
300672.2	Mathematics 1A
200263.5	Biometry

Analytical Science

Choose one of

300580.3	Programming Fundamentals
300936.1	Functional Proteins and Genes
300843.1	Forensic and Environmental Analysis
300932.1	Natural Science Research Methods
300832.1	Analytical Chemistry

Work Integrated Learning

Note: Work integrated learning units will be available by mid-year 2019

Capstone

Choose one of

300883.1	Laboratory Quality Management
300909.1	Biological Adaptation to Climate Change

200022.3	Mathematical Modelling
301110.1	Applications of Big Data
300913.1	Field Project 1
300922.2	Quality Assurance and Food Analysis

Specialisations

Students are required to complete eight specialisation core units from one of the following testamur majors. Students may only select one testamur major:

MT3014.1	Zoology
MT3015.1	Animal Science
MT3016.1	Biology
MT3017.1	Ecology
MT3018.1	Environmental Futures
MT3031.1	Environmental Health

(see note below)

MT3019.1	Microbiology
MT3021.1	Nutrition and Food Science
MT3022.1	Forensic Science
MT3024.1	Forensic Biology
MT3023.1	Forensic Chemistry
MT3025.1	Mathematics
MT3032.1	Data Science
MT3026.1	Applied Physics
MT3027.1	Chemistry

Electives

Students may use their elective units to complete a major from the same or another discipline area (80 credit points), or up to 80 credit points from the wide range of units offered by Western Sydney University.

Note:

Students selecting MT3031 Environmental Health must use their elective units to complete M3113 Environmental Futures to meet the accreditation requirements of Environmental Health Australia.

Students selecting MT2022 Forensic Science must use their elective units to complete M4012 Crime Scene Investigation to meet industry requirements.

Bachelor of Medical Science

3755.1

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2020 or later.

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

This degree will provide you with the opportunity to learn about the basic sciences underpinning human health, wellbeing and its application to human disease. Enrolment in this degree has you selecting from one of three areas as your primary major: Biomedical Science, Medicinal Chemistry or Anatomy and Physiology. The Biomedical Science major focuses on the cellular, molecular and

genetic biology aspects of health and disease. The Medicinal Chemistry major focuses on the chemistry, biochemistry and pharmacological aspects of health and disease, while the Anatomy and Physiology major focuses on the anatomy and physiology of the human body in relation to health and disease.

Students need note that different majors and sub-majors are offered on different campuses, and not all majors/sub-majors are offered at every campus.

Study Mode

Three years full-time or Six years part-time.

Location

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

Admission

Assumed Knowledge: Students should have at least two unit English, and two unit science (any science) and two unit mathematics at year 12 equivalent.

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

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

International applicants must apply directly to the University via the International Office. International students applying to the University through the International Office can find details of minimum English proficiency requirements and acceptable proof on their website.

Course Structure

Qualification for this award requires the completion of 240 credit points which includes: 80 credit points of core units, 80 credit points taken as a Science specialisation and 80 credit points of elective units.

Students must complete at least 60 credit points at Level 3.

Core units

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry
300936.1	Functional Proteins and Genes

Note: Work intergrated learning units will be available by mid-year 2019

300893.1 Topics in Medical Science

Choose one of

300831.3 Quantitative Thinking
300672.2 Mathematics 1A

Choose one of

300816.1 Cell Biology
300803.1 Essential Chemistry 2

Specialisations

Students are required to complete eight specialisation units from one of the following testamur majors:

MT3030.1 Biomedical Science
MT3029.1 Medicinal Chemistry
MT3028.1 Anatomy and Physiology

Electives

Students may use their elective units to complete an additional specialisation from the wide range of units offered by Western Sydney University.

Enrolment in elective units is subject to meeting any required criteria for individual units, such as co-requisites and pre-requisites.

Bachelor of Advanced Science

3757.1

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2020 or later.

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

If you enjoy being constantly challenged and extended by your studies and are thinking about a career involving Science research, then the B.Sc. Advanced Science degree allows exposure to research in an undergraduate degree. Inquiry based research is introduced for all science students in first year, however in second year, Advanced Science students interact with world renowned researchers to provide extensive and individual training to develop leadership and/or research skills. This involves completing advanced science units only available to Advanced Science students, which focus on research methodology and developing skills pertinent for a future works in science project management. On completing a science major, the degree also allows for completion of an additional sub-major or 4 free electives, so students can design their own learning journey. Students need note that not all majors are offered at every campus.

Study Mode

Three years full-time or Six years part-time.

Location

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

Admission

Assumed Knowledge: Students should have at least two unit English, and two unit science (any science) and two unit mathematics at year 12 equivalent. Minimum ATAR of 90.

Students must maintain a Grade Point Average (GPA) of 5.0 or above to continue their enrolment in the course. If this GPA is not maintained they will be automatically transferred into the standard program after one warning (one semester of further study). Students in other WSU science courses who achieve a GPA of 5.0 or greater at the end of their first year of study may be admitted into the Advanced Science program by invitation if sufficient places are available.

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

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

International applicants must apply directly to the University via the International Office. International students applying to the University through the International Office can find details of minimum English proficiency requirements and acceptable proof on their website.

Course Structure

Qualification for this award requires the completion of 240 credit points which includes: 120 credit points of core units, 80 credit points taken as a Science specialisation and 40 credit points of elective units.

Qualification for this award requires the completion of 240 credit points which includes: 120 credit points of core units, 80 credit points taken as a Science specialisation and 40 credit points of elective units.

Core Units

300811.1 Scientific Literacy
300808.2 Introductory Chemistry
300802.2 Biodiversity

Students are allocated a core unit from the following areas depending on the specialisation chosen. Students should consult the sequence of units identified for each specialisation.

Foundation

Choose one of

- 300816.1** Cell Biology
300803.1 Essential Chemistry 2

Mathematics

Choose one of

- 300831.3** Quantitative Thinking
300672.2 Mathematics 1A
200263.5 Biometry

Analytical Science

Choose one of

- 300580.3** Programming Fundamentals
300936.1 Functional Proteins and Genes
300843.1 Forensic and Environmental Analysis
300932.1 Natural Science Research Methods
300832.1 Analytical Chemistry

Work Integrated Learning

Note: Work integrated learning units will be available by mid-year 2019

Capstone

Choose one of

- 300883.1** Laboratory Quality Management
300909.1 Biological Adaptation to Climate Change
200022.3 Mathematical Modelling
301110.1 Applications of Big Data
300913.1 Field Project 1
300922.2 Quality Assurance and Food Analysis

Advanced Science

All students are required to complete the advanced science units:

- 300937.1** Advanced Science Project A
300938.1 Advanced Science Project B

A further research unit will be available mid-year 2019

Specialisations

Students are required to complete eight specialisation core units from one of the following primary Science specialisations. Students may only select one testamur major:

- MT3014.1** Zoology
MT3015.1 Animal Science
MT3016.1 Biology
MT3017.1 Ecology
MT3018.1 Environmental Futures
MT3019.1 Microbiology
MT3021.1 Nutrition and Food Science
MT3022.1 Forensic Science
MT3024.1 Forensic Biology
MT3023.1 Forensic Chemistry

- MT3025.1**
MT3032.1
MT3026.1
MT3027.1

Mathematics
 Data Science
 Applied Physics
 Chemistry

Electives

Students may use their elective units to complete a major from the same or another discipline area (80 credit points), or up to 80 credit points from the wide range of units offered by Western Sydney University.

Note:

Students selecting MT2022 Forensic Science must use their elective units to complete M3120 Crime Scene Investigation to meet industry requirements

Enrolment in elective units is subject to meeting any required criteria for individual units, such as co-requisites and pre-requisites.

Bachelor of Advanced Medical Science

3758.1

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2020 or later.

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

This degree equips students with both specialised knowledge and enhanced inquiry and critical thinking skills. It provides training for a range of careers in medical science and allows development of leadership and research skills. The advanced science units partner you with experienced academic researchers in medicinal chemistry, biomedical science or anatomy and physiology. The biomedical science major focuses on the cellular, molecular and genetic aspects of health. The medicinal chemistry major focuses on the chemistry, biochemistry and pharmacological aspects of health and disease, while the anatomy and physiology major focuses on the structure and function of the human body.. Students need note that different majors are offered on different campuses.

Study Mode

Three years full-time.

Location

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

Admission

Assumed Knowledge: Students should have at least two unit English, and two unit science (any science) and two unit mathematics at year 12 equivalent.

Minimum ATAR of 90. Students must maintain a Grade Point Average of (GPA) of 5.0 or above to continue their enrolment in the course. If this GPA is not maintained they will be automatically transferred into the standard program after one warning (one semester of further study). Students in other WSU science courses who achieve a GPA of 5.0 or greater at the end of their first year of study may be admitted into the Advanced Medical Science program by invitation if sufficient places are available.

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

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

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

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

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

Course Structure

Qualification for this award requires the completion of 240 credit points which includes: 120 credit points of core units, 80 credit points taken as a Science specialisation and 40 credit points of elective units.

All students must complete 60 credit points of study at Level 3 to meet course requirements. Students may need to select at least 10 credit points of elective study at Level 3 to meet this requirement.

Core units

300811.1	Scientific Literacy
300831.3	Quantitative Thinking
300672.2	Mathematics 1A
300802.2	Biodiversity
300816.1	Cell Biology
300803.1	Essential Chemistry 2
300808.2	Introductory Chemistry
300936.1	Functional Proteins and Genes

Note: Work intergrated learning units will be available by mid-year 2019

300893.1	Topics in Medical Science
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300937.1	Advanced Science Project A
300938.1	Advanced Science Project B

Specialisations

Students are required to complete eight specialisation units from one of the following testamur majors:

MT3028.1	Anatomy and Physiology
MT3029.1	Medicinal Chemistry
MT3030.1	Biomedical Science

Electives

Students may use their elective units to complete an additional specialisation from the wide range of units offered by Western Sydney University.

Enrolment in elective units is subject to meeting any required criteria for individual units, such as co-requisites and pre-requisites.

Bachelor of Health Science

4656.2

The course provides a broad introduction to the health sciences with opportunities to specialise in one or two of the following areas: health promotion, health services management, therapeutic recreation, public health. Students who choose to enrol into two specialisations will identify one area as their Key Program and the second as their major. The Key Program is considered the primary specialisation. The double specialisation is designed to increase students' areas of expertise and employability. Public Health is the only fully online key program in 4656. Students who choose the Public Health key program and a major in one of the other 3 specialisations of 4656 will be required to attend on-campus classes for the second area of study. Students may be able to transfer from this course to another within the School of Science and Health or Western Sydney University, however this process is competitive and is subject to meeting admission criteria and transfer places may be limited.

Study Mode

Three years full-time.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal
Online	Full Time	Multi Modal
Sydney City Campus	Full Time	Internal

Accreditation

The Bachelor of Health Science (Health Service Management) has Professional Accreditation with the Australasian College of Health Service Management (ACHSM). The Bachelor of Health Science (Therapeutic Recreation) has been granted accreditation from Diversional Therapy Australia (DTA).

Admission

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

Assumed knowledge: Any 2 units of English.

For international students, admission is through direct application to the university with IELTS equal to 6.5 or above.

Special Requirements

For students enrolled in the Key Programs for Health Promotion, Therapeutic Recreation and Health Services Management - Prior to the second year of the program students must have 1) Student Undertaking Form and National Police Certificate 2) Working with Children Check Student Declaration 3) Senior first aid certificate which includes cardiopulmonary resuscitation, and 4) All documentation is to comply with the NSW Health Occupational Screening and Vaccination Against Infectious Diseases Policy including completion of an adult vaccination card. Students enrolled in the Public Health Program only do not need special requirements.

Course Structure

Qualification for this award requires the successful completion of 240 credit points including the units within one of the following Key Programs.

Recommended Sequence - Sydney City Campus

Recommended Sequence - Campbelltown and Online

Students must select and enrol in one of the following Key Programs before selecting individual units. Please note the Public Health Key Program is available online and at Campbelltown.

KT4000.1	Health Promotion
KT4001.1	Health Services Management
KT4002.1	Therapeutic Recreation
KT4004.1	Public Health

Majors

These Majors are available to Health Promotion, Health Service Management, Therapeutic Recreation and Public Health students only.

M4001.1	Health Promotion
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The Health Promotion major is not available to students enrolled in the Health Promotion Key Program of the Bachelor of Health Science.

M4002.1	Health Services Management
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The Health Services Management major is not available to students enrolled in the Health Services Management Key Program of the Bachelor of Health Science.

M4000.1	Therapeutic Recreation
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The Therapeutic Recreation major is not available to students enrolled in the Therapeutic Recreation Key Program of the Bachelor of Health Science.

M4003.1	Public Health
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The Public Health major is not available to students enrolled in the Public Health Key Program of the Bachelor of Health Science.

Majors

The sharing of some common units across the key programs detailed above offers students the opportunity to achieve the Bachelor of Health Science with a Key Program and a major. Please note that the Key Program will appear on the testamur whilst the major will appear on the transcript.

Qualification for the Key Program and major programs requires the successful completion of 240 credit points including the units listed in the recommended sequences below.

Bachelor of Health Science (Therapeutic Recreation) with Health Promotion Major

Or

Bachelor of Health Science (Health Promotion) with Therapeutic Recreation Major

Recommended Sequence

Start-year Entry

Year 1

Autumn session

400870.2	Population Health and Society
400871.2	Professional Health Competencies
300361.3	Introduction to Human Biology
400783.2	Professional Pathways in Health Science

Spring session

400732.2	Communication in Health
400863.2	Foundations of Research and Evidence-Based Practice
101614.3	Psychology and Health
400285.2	Public Health

Year 2

Autumn session

400867.2	Approaches to Health Promotion
400864.3	Research Methods (Quantitative and Qualitative)
400866.3	Culture, Diversity and Health
400244.3	Introduction to Leisure and Recreation Theory

Spring session

400968.2	Professional Practice in Aged Care and Disability
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- 400246.4** Workplace Learning 1 (Therapeutic Recreation)
401195.1 Health Politics, Policy and Planning
400286.4 Injury Prevention

Year 3**Autumn session**

- 400789.3** Leisure Education Programming and Mental Health
400252.3 Workplace Learning 2 (Community Placement)
400275.2 Health Planning Project
400784.4 Health Promotion Practice 1

Spring session

- 400249.2** Ethical and Legal Issues in Health Care
400786.4 Professional Transition Project
400254.2 Therapeutic Recreation Professional Project
400785.2 Health Promotion Practice 2

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

- 400732.2** Communication in Health
400863.2 Foundations of Research and Evidence-Based Practice
101614.3 Psychology and Health
400285.2 Public Health

Year 2**Autumn session**

- 400870.2** Population Health and Society
400871.2 Professional Health Competencies
300361.3 Introduction to Human Biology
400783.2 Professional Pathways in Health Science

Spring session

- 400968.2** Professional Practice in Aged Care and Disability
400246.4 Workplace Learning 1 (Therapeutic Recreation)
401195.1 Health Politics, Policy and Planning
400249.2 Ethical and Legal Issues in Health Care

Year 3**Autumn session**

- 400867.2** Approaches to Health Promotion
400252.3 Workplace Learning 2 (Community Placement)
400784.4 Health Promotion Practice 1
400244.3 Introduction to Leisure and Recreation Theory

Spring session

- 400286.4** Injury Prevention

- 400786.4** Professional Transition Project
400254.2 Therapeutic Recreation Professional Project
400785.2 Health Promotion Practice 2

Year 4**Autumn session**

- 400789.3** Leisure Education Programming and Mental Health
400864.3 Research Methods (Quantitative and Qualitative)
400275.2 Health Planning Project
400866.3 Culture, Diversity and Health

Bachelor of Health Science (Therapeutic Recreation) with Health Services Management Major**Or****Bachelor of Health Science (Health Services Management) with Therapeutic Recreation Major****Recommended Sequence****Start-year Entry****Year 1****Autumn session**

- 400870.2** Population Health and Society
400871.2 Professional Health Competencies
300361.3 Introduction to Human Biology
400783.2 Professional Pathways in Health Science

Spring session

- 400732.2** Communication in Health
400863.2 Foundations of Research and Evidence-Based Practice
101614.3 Psychology and Health
400277.4 Health Services Management

Year 2**Autumn session**

- 400867.2** Approaches to Health Promotion
400864.3 Research Methods (Quantitative and Qualitative)
400866.3 Culture, Diversity and Health
400244.3 Introduction to Leisure and Recreation Theory

Spring session

- 400968.2** Professional Practice in Aged Care and Disability
400246.4 Workplace Learning 1 (Therapeutic Recreation)
401195.1 Health Politics, Policy and Planning
400249.2 Ethical and Legal Issues in Health Care

Year 3**Autumn session**

- 400789.3** Leisure Education Programming and Mental Health
400252.3 Workplace Learning 2 (Community Placement)
400275.2 Health Planning Project
400787.3 Health Services Management Practice

Spring session

- 400788.4** Health Services Workforce Management
400786.4 Professional Transition Project
400254.2 Therapeutic Recreation Professional Project
400279.4 Health Services Financial Management

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

- 400732.2** Communication in Health
400863.2 Foundations of Research and Evidence-Based Practice
101614.3 Psychology and Health
400277.4 Health Services Management

Year 2**Autumn session**

- 400870.2** Population Health and Society
400871.2 Professional Health Competencies
300361.3 Introduction to Human Biology
400783.2 Professional Pathways in Health Science

Spring session

- 400968.2** Professional Practice in Aged Care and Disability
400246.4 Workplace Learning 1 (Therapeutic Recreation)
401195.1 Health Politics, Policy and Planning
400249.2 Ethical and Legal Issues in Health Care

Year 3**Autumn session**

- 400867.2** Approaches to Health Promotion
400252.3 Workplace Learning 2 (Community Placement)
400787.3 Health Services Management Practice
400244.3 Introduction to Leisure and Recreation Theory

Spring session

- 400788.4** Health Services Workforce Management
400786.4 Professional Transition Project
400254.2 Therapeutic Recreation Professional Project
400279.4 Health Services Financial Management

Year 4**Autumn session**

- 400789.3** Leisure Education Programming and Mental Health
400864.3 Research Methods (Quantitative and Qualitative)
400275.2 Health Planning Project
400866.3 Culture, Diversity and Health

Bachelor of Health Science (Health Promotion) with Health Services Management Major**Or****Bachelor of Health Science (Health Services Management) with Health Promotion Major****Recommended Sequence****Start-year Entry****Year 1****Autumn session**

- 400870.2** Population Health and Society
400871.2 Professional Health Competencies
300361.3 Introduction to Human Biology
400783.2 Professional Pathways in Health Science

Spring session

- 400732.2** Communication in Health
400863.2 Foundations of Research and Evidence-Based Practice
101614.3 Psychology and Health
400277.4 Health Services Management

Year 2**Autumn session**

- 400867.2** Approaches to Health Promotion
400864.3 Research Methods (Quantitative and Qualitative)
400866.3 Culture, Diversity and Health

And one elective

Recommended elective

- 400244.3** Introduction to Leisure and Recreation Theory

Spring session

- 401195.1** Health Politics, Policy and Planning
400285.2 Public Health
400286.4 Injury Prevention
400249.2 Ethical and Legal Issues in Health Care

Year 3**Autumn session**

400275.2	Health Planning Project
400784.4	Health Promotion Practice 1
400787.3	Health Services Management Practice

And one elective

Spring session

400788.4	Health Services Workforce Management
400786.4	Professional Transition Project
400785.2	Health Promotion Practice 2
400279.4	Health Services Financial Management

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

400732.2	Communication in Health
400863.2	Foundations of Research and Evidence-Based Practice
101614.3	Psychology and Health
400277.4	Health Services Management

Year 2**Autumn session**

400867.2	Approaches to Health Promotion
400871.2	Professional Health Competencies
400870.2	Population Health and Society
400783.2	Professional Pathways in Health Science

Spring session

401195.1	Health Politics, Policy and Planning
400285.2	Public Health
400286.4	Injury Prevention
400249.2	Ethical and Legal Issues in Health Care

Year 3**Autumn session**

300361.3	Introduction to Human Biology
400784.4	Health Promotion Practice 1
400866.3	Culture, Diversity and Health
400787.3	Health Services Management Practice

Spring session

400788.4	Health Services Workforce Management
400786.4	Professional Transition Project
400785.2	Health Promotion Practice 2
400279.4	Health Services Financial Management

Year 4**Autumn session**

400275.2	Health Planning Project
400864.3	Research Methods (Quantitative and Qualitative)

And two electives

The following unit is a recommended elective

400244.3	Introduction to Leisure and Recreation Theory
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Bachelor of Health Science (Health Promotion) with Public Health Major

Or

Bachelor of Health Science (Public Health) with Health Promotion Major**Start-year Entry****Year 1****Autumn session**

400871.2	Professional Health Competencies
400870.2	Population Health and Society
300361.3	Introduction to Human Biology
400783.2	Professional Pathways in Health Science

Spring session

400732.2	Communication in Health
400863.2	Foundations of Research and Evidence-Based Practice
101614.3	Psychology and Health

And one elective

Recommended elective

400277.4	Health Services Management
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Year 2**Autumn session**

400867.2	Approaches to Health Promotion
400864.3	Research Methods (Quantitative and Qualitative)
400866.3	Culture, Diversity and Health
300872.1	Epidemiology

Spring session

401195.1	Health Politics, Policy and Planning
400285.2	Public Health
400286.4	Injury Prevention

And one elective

Year 3**Autumn session**

400275.2	Health Planning Project
400784.4	Health Promotion Practice 1
401194.2	Contemporary Issues in Public Health

And one elective

Spring session

400785.2	Health Promotion Practice 2
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400249.2	Ethical and Legal Issues in Health Care
400786.4	Professional Transition Project
401193.1	Public Health Practice

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

101614.3	Psychology and Health
400863.2	Foundations of Research and Evidence-Based Practice
400732.2	Communication in Health

And one elective

Recommended elective

400277.4	Health Services Management
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Year 2**Autumn session**

400870.2	Population Health and Society
400867.2	Approaches to Health Promotion
400783.2	Professional Pathways in Health Science
400871.2	Professional Health Competencies

Spring session

401195.1	Health Politics, Policy and Planning
400285.2	Public Health
400286.4	Injury Prevention

And one elective

Year 3**Autumn session**

400784.4	Health Promotion Practice 1
300361.3	Introduction to Human Biology
400866.3	Culture, Diversity and Health
400864.3	Research Methods (Quantitative and Qualitative)

Spring session

400785.2	Health Promotion Practice 2
400249.2	Ethical and Legal Issues in Health Care
400786.4	Professional Transition Project
401193.1	Public Health Practice

Year 4**Autumn session**

300872.1	Epidemiology
400275.2	Health Planning Project
401194.2	Contemporary Issues in Public Health

And one elective

Bachelor of Health Science (Health Services Management) with Public Health Major

Or

Bachelor of Health Science (Public Health) with Health Services Management Major**Start year entry****Year 1****Autumn session**

400871.2	Professional Health Competencies
400870.2	Population Health and Society
300361.3	Introduction to Human Biology
400783.2	Professional Pathways in Health Science

Spring session

400732.2	Communication in Health
400863.2	Foundations of Research and Evidence-Based Practice
101614.3	Psychology and Health
400277.4	Health Services Management

Year 2**Autumn session**

400867.2	Approaches to Health Promotion
400864.3	Research Methods (Quantitative and Qualitative)
400866.3	Culture, Diversity and Health
300872.1	Epidemiology

Spring session

401195.1	Health Politics, Policy and Planning
400285.2	Public Health
400249.2	Ethical and Legal Issues in Health Care

And one elective

Year 3**Autumn session**

400275.2	Health Planning Project
400787.3	Health Services Management Practice
401194.2	Contemporary Issues in Public Health

And one elective

Spring session

400279.4	Health Services Financial Management
400788.4	Health Services Workforce Management
400786.4	Professional Transition Project
401193.1	Public Health Practice

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

101614.3	Psychology and Health
400863.2	Foundations of Research and Evidence-Based Practice
400732.2	Communication in Health
400277.4	Health Services Management

Year 2**Autumn session**

400870.2	Population Health and Society
400867.2	Approaches to Health Promotion
400783.2	Professional Pathways in Health Science
400871.2	Professional Health Competencies

Spring session

401195.1	Health Politics, Policy and Planning
400285.2	Public Health
400249.2	Ethical and Legal Issues in Health Care

And one elective

Year 3**Autumn session**

400787.3	Health Services Management Practice
300361.3	Introduction to Human Biology
400866.3	Culture, Diversity and Health
400864.3	Research Methods (Quantitative and Qualitative)

Spring session

400786.4	Professional Transition Project
400788.4	Health Services Workforce Management
400279.4	Health Services Financial Management
401193.1	Public Health Practice

Year 4**Autumn session**

300872.1	Epidemiology
400275.2	Health Planning Project
401194.2	Contemporary Issues in Public Health

And one elective

Bachelor of Health Science (Therapeutic Recreation) with Public Health Major

Or

Bachelor of Health Science (Public Health) with Therapeutic Recreation Major**Start-year Entry****Year 1****Autumn session**

400871.2	Professional Health Competencies
400870.2	Population Health and Society
300361.3	Introduction to Human Biology
400783.2	Professional Pathways in Health Science

Spring session

400732.2	Communication in Health
400863.2	Foundations of Research and Evidence-Based Practice
101614.3	Psychology and Health

Summer session

400866.3	Culture, Diversity and Health
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Year 2**Autumn session**

400867.2	Approaches to Health Promotion
400864.3	Research Methods (Quantitative and Qualitative)
400244.3	Introduction to Leisure and Recreation Theory
300872.1	Epidemiology

Spring session

401195.1	Health Politics, Policy and Planning
400285.2	Public Health
400246.4	Workplace Learning 1 (Therapeutic Recreation)
400968.2	Professional Practice in Aged Care and Disability

Year 3**Autumn session**

400275.2	Health Planning Project
400252.3	Workplace Learning 2 (Community Placement)
401194.2	Contemporary Issues in Public Health
400789.3	Leisure Education Programming and Mental Health

Spring session

400254.2	Therapeutic Recreation Professional Project
400249.2	Ethical and Legal Issues in Health Care
400786.4	Professional Transition Project
401193.1	Public Health Practice

Mid-year Entry

Year 1

Spring session

101614.3	Psychology and Health
400863.2	Foundations of Research and Evidence-Based Practice
400732.2	Communication in Health

Summer session

400866.3	Culture, Diversity and Health
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Year 2

Autumn session

400870.2	Population Health and Society
400244.3	Introduction to Leisure and Recreation Theory
400783.2	Professional Pathways in Health Science
400871.2	Professional Health Competencies

Spring session

401195.1	Health Politics, Policy and Planning
400285.2	Public Health
400968.2	Professional Practice in Aged Care and Disability
400246.4	Workplace Learning 1 (Therapeutic Recreation)

Year 3

Autumn session

400252.3	Workplace Learning 2 (Community Placement)
300361.3	Introduction to Human Biology
400867.2	Approaches to Health Promotion
400864.3	Research Methods (Quantitative and Qualitative)

Spring session

400254.2	Therapeutic Recreation Professional Project
400249.2	Ethical and Legal Issues in Health Care
400786.4	Professional Transition Project
401193.1	Public Health Practice

Year 4

Autumn session

400789.3	Leisure Education Programming and Mental Health
300872.1	Epidemiology
400275.2	Health Planning Project
401194.2	Contemporary Issues in Public Health

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Students who maintain a GPA of 5 or higher may use elective units toward obtaining an additional approved sub-major in Critical Thinking.

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Bachelor of Health Science (Health and Physical Education)

4747.2

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

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

The Health and Physical Education (HPE) program brings together a comprehensive foundation of health sciences, understanding of physical activity, and skills in interacting with people. The course explores challenging areas of personal development, including youth health issues, sexuality, drugs, psychology and risk-taking behaviours, as well as general health science, including human biology, health systems, health promotion and research. Facilities are state of the art, including a new gymnasium and a renovated dance and gym studio, and practical experience is a strong feature of the program. The program is a popular pathway to a Master of Teaching degree, and then on to a teaching career. Teaching opportunities can be extended beyond HPE by studying electives, such as science and mathematics, where students gain a second teaching area in a subject of their choice. Graduates also work as personal trainers, sports coaches, research assistants, and community-based recreation.

Study Mode

Three years full-time.

Location

Campus	Attendance	Mode
Penrith Campus	Full Time	Internal

Admission

For local students admission is through UAC.

Assumed knowledge: Any 2 units of English

Recommended Studies: Personal Development, Health and Physical Education, or Community and Family Studies.

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

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

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

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

For international students, admission is through direct application to the university with IELTS equal to 6.5 or above.

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

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

Special Requirements

In order to enrol in Second Year Autumn units, all students must have: 1. Working with Children Check. 2. First Aid Certificate. 3. Child Protection Certificate.

Course Structure

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequence below.

Note: At least 60 credit points must be at Level 3 or above.

Note: For placement in schools, students must complete a Child Protection Policies and Procedures module. This requirement is completed through tutorials and assessment in 400871 Professional Health Competencies.

Recommended Sequence

Start-year Intake

Year 1

Autumn session

400870.2	Population Health and Society
300361.3	Introduction to Human Biology
400880.2	Fundamentals of Exercise Science
400871.2	Professional Health Competencies

Spring session

400808.4	Outdoor Recreation
400891.2	Movement and Skill Development
101614.3	Psychology and Health
400732.2	Communication in Health

Year 2

Autumn session

400867.2	Approaches to Health Promotion
401055.2	Sport and Exercise Psychology
400866.3	Culture, Diversity and Health

And one elective

Spring session

400892.2	Physical Activity, Nutrition and Health
400798.3	PDHPE: Games for Diverse Groups
400863.2	Foundations of Research and Evidence-Based Practice
401239.1	Introduction to Physical Cultural Studies

Year 3

Autumn session

401169.2	Coaching Sport and Recreation Activities
400894.2	Contemporary Youth Health Issues
400886.3	Motor Control and Skill Acquisition

And one elective

Spring session

400896.1	Gymnastics and Dance
401056.2	Applied Exercise Science for Personal Trainers and Coaches

And two electives

Mid-year Intake

Year 1

Spring session

400808.4	Outdoor Recreation
400863.2	Foundations of Research and Evidence-Based Practice
101614.3	Psychology and Health
400732.2	Communication in Health

Autumn session

400870.2	Population Health and Society
300361.3	Introduction to Human Biology
400880.2	Fundamentals of Exercise Science
400871.2	Professional Health Competencies

Year 2

Spring session

400892.2	Physical Activity, Nutrition and Health
400891.2	Movement and Skill Development
400798.3	PDHPE: Games for Diverse Groups
401239.1	Introduction to Physical Cultural Studies

Autumn session

400867.2	Approaches to Health Promotion
401169.2	Coaching Sport and Recreation Activities
400866.3	Culture, Diversity and Health

And one elective

Year 3

Spring session

400896.1	Gymnastics and Dance
401056.2	Applied Exercise Science for Personal Trainers and Coaches

And two electives

Autumn session

401055.2	Sport and Exercise Psychology
400894.2	Contemporary Youth Health Issues
400886.3	Motor Control and Skill Acquisition

And one elective

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Students who maintain a GPA of 5 or higher may use elective units toward obtaining an additional approved sub-major in Critical Thinking.

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Bachelor of Health Science (Health and Physical Education)-Pathway to Teaching (Secondary)

4742.1

The Bachelor of Health and Physical Education (HPE) Pathway to Teaching (Secondary) brings together a comprehensive foundation of health sciences, understanding of physical activity, and skills in interacting with people. The course explores challenging areas of personal development, including youth health issues, sexuality, drugs, psychology and risk-taking behaviours, as well as general health science, including human biology, health systems, health promotion and research. Enrolment in this program involves direct pathway to a Master of Teaching degree, and then on to a teaching career. Teaching opportunities can be extended beyond HPE by studying electives, such as science and mathematics, where students gain a second teaching area in a subject of their choice. The degree also gives the advantage of early access to Education Studies units through mandatory completion of an Education Studies sub-major. These units of study are structured to gain the necessary learning areas to satisfy the Board of Studies, Teaching and Educational Standards discipline knowledge requirements for entry into teaching.

Study Mode

Three years full-time.

Location

Campus	Attendance	Mode
Penrith Campus	Full Time	Internal

Accreditation

Graduates may be eligible to apply for accreditation with the NSW Education Standards Authority following the successful completion of a recognised teaching qualification such as the Master of Teaching (Secondary).

Admission

Assumed knowledge: any 2 units of English.

Recommended Studies: Personal Development, Health and Physical Education or Community and Family Studies

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

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

For international students, admission is through direct application to the university with IELTS equal to 6.5 or above.

Special Requirements

In order to enrol in Second Year Autumn units, all students must have: 1. Working with Children Check. 2. First Aid Certificate. 3. Child Protection Certificate.

Course Structure

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequence below.

Note: At least 60 credit points must be at Level 3 or above.

Note: For placement in schools, students must complete a Child Protection Policies and Procedures module. This requirement is completed through tutorials and assessment in 400871 Professional Health Competencies.

Sub-majors

In addition, all students must complete the mandatory sub-major in Education Studies (SM1100 Education Studies).

Students must meet this requirement by enrolling in 400808: Outdoor Recreation as one (10 credit points) of their SM1100 units while the remaining three units (30 credit points) are open to student choice from within the SM1100 framework.

SM1100.1 Education Studies

Recommended Sequence

Start-year Intake

Year 1

Autumn session

400870.2	Population Health and Society
300361.3	Introduction to Human Biology
400880.2	Fundamentals of Exercise Science
400871.2	Professional Health Competencies

Spring session

400808.4	Outdoor Recreation
400891.2	Movement and Skill Development
101614.3	Psychology and Health
400863.2	Foundations of Research and Evidence-Based Practice

Year 2**Autumn Session**

- 400866.3** Culture, Diversity and Health
401055.2 Sport and Exercise Psychology

One unit from Education Studies sub-major
 One unit for second teaching specialisation

Spring session

- 400892.2** Physical Activity, Nutrition and Health
400798.3 PDHPE: Games for Diverse Groups

One unit from Education Studies sub-major
 One unit for second teaching specialisation

Year 3**Autumn session**

- 401169.2** Coaching Sport and Recreation Activities
400894.2 Contemporary Youth Health Issues
400886.3 Motor Control and Skill Acquisition

One unit for second teaching specialisation

Spring session

- 400896.1** Gymnastics and Dance
401056.2 Applied Exercise Science for Personal Trainers and Coaches

One unit from Education Studies sub-major
 One unit for second teaching specialisation

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

- 400808.4** Outdoor Recreation
400892.2 Physical Activity, Nutrition and Health
101614.3 Psychology and Health
400863.2 Foundations of Research and Evidence-Based Practice

Autumn session

- 400870.2** Population Health and Society
300361.3 Introduction to Human Biology
400880.2 Fundamentals of Exercise Science
400871.2 Professional Health Competencies

Year 2**Spring session**

- 400891.2** Movement and Skill Development
400798.3 PDHPE: Games for Diverse Groups

One unit from Education Studies sub-major
 One unit for second teaching specialisation

Autumn session

- 400866.3** Culture, Diversity and Health

401169.2 Coaching Sport and Recreation Activities

One unit from Education Studies sub-major
 One unit for second teaching specialisation

Year 3**Spring session**

- 400896.1** Gymnastics and Dance
401056.2 Applied Exercise Science for Personal Trainers and Coaches

One unit from Education Studies Sub-major
 One unit for second teaching specialisation

Autumn session

- 401055.2** Sport and Exercise Psychology
400894.2 Contemporary Youth Health Issues
400886.3 Motor Control and Skill Acquisition

One unit for second teaching specialisation

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Students who maintain a GPA of 5 or higher may use elective units toward obtaining an additional approved sub-major in Critical Thinking.

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Bachelor of Health Science (Paramedicine)**4669.1**

Paramedics play an integral role in the health system, responding to emergencies involving patients with acute and sub-acute health problems in a range of diverse and uncontrolled settings. Paramedics provide unscheduled, out-of-hospital care to patients of all ages, dealing with health complaints that span the spectrum of illness and injury severity and complexity. This contemporary course has a strong evidence-based focus and uses innovative blended learning and assessment strategies, together with diverse clinical placements, to develop high level practical and clinical decision making skills. Completion of the course will enable you to work effectively as a paramedic in an ambulance service, the private paramedical industry, or the defence forces.

Note: This course involves a mandatory health and medical assessment that must be completed prior to enrolling in 401067 Paramedic Practice 1 offered in Spring Year 1, and undertaking the associated ambulance service clinical placement. Students who are unable to pass the assessment by the end of Autumn session in the first year of the course will be required to take a leave of absence pending re-assessment in the following year, or transfer to an alternative health science degree such as 4656 Bachelor of Health Science.

Study Mode

Three years full-time

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal

Accreditation

The Bachelor of Health Science (Paramedicine) has been granted provisional approval for accreditation from the Council of Ambulance Authorities.

Inherent requirements

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

Admission

Assumed knowledge: any 2 units of English; Mathematics

Recommended studies: Biology; PDHPE

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

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

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

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

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

Special Requirements

In order to enrol in Second Semester First Year units, all students must have: 1. National Criminal Record Check (National Police Certificate), 2. Prohibited Employment Declaration Form prior to 1st June 2010 or a Working with Children Check Student Declaration after 1st June 2010. 3. First Aid Certificate (including cardiopulmonary resuscitation). Clinical placements are a mandatory component of this course. To be eligible for clinical placements, students must; 1. Comply with NSW Health vaccination requirements and be prepared to submit a completed Adult Immunisation Card to placement institutions. NSW Health can provide details of necessary vaccinations. 2. Receive a clearance from an authorised Western Sydney University-approved provider after successfully completing a health/medical/fitness assessment as prescribed by the University. 3. Students must also comply with the NSW Health Records and Information Privacy Act (2004) and complete a relevant

declaration. In clinical placement units, students must wear the Western Sydney University paramedicine uniform, which complies with NSW uniform requirements. This uniform will be purchased at the student's expense.

Course Structure

Qualification for this award requires the successful completion of 240 credit points as per the recommended sequence below.

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

401066.1	Introduction to Paramedicine
400868.3	Human Anatomy and Physiology 1
400870.2	Population Health and Society
400871.2	Professional Health Competencies

Spring session

401067.2	Paramedic Practice 1
400869.3	Human Anatomy and Physiology 2
400863.2	Foundations of Research and Evidence-Based Practice
400732.2	Communication in Health

Year 2**Autumn session**

401068.2	Paramedic Practice 2
401095.2	Mental Health and Substance Abuse
400138.3	Pathophysiology 1
400866.3	Culture, Diversity and Health

Spring session

401073.1	Paramedic Practice 3
401074.1	Out-of-hospital Medical Care 1
400981.2	Clinical Pharmacology
101614.3	Psychology and Health

Year 3**Autumn session**

401069.2	Paramedic Practice 4
401096.2	Out-of-hospital Medical Care 2
401072.2	Obstetrics and Paediatrics
400864.3	Research Methods (Quantitative and Qualitative)

Spring session

401071.2	Traumatic and Environmental Emergencies
401097.1	Clinical Leadership and Patient Safety
400786.4	Professional Transition Project
400249.2	Ethical and Legal Issues in Health Care

Bachelor of Health Science (Sport and Exercise Science)

4658.4

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

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

Sport and exercise science encompasses the science that underpins health, physical activity and exercise, and their applications to the design, implementation and evaluation of exercise programs. There are a range of career options in health and fitness centres, for example as a personal trainer, a health and fitness specialist or a fitness assessor, in government agencies associated with sport, physical activity and health, in teaching and research, and with professional sporting groups, rehabilitation clinics and hospitals. If you gain higher-level accreditation as an exercise physiologist, you will also be able to provide healthcare services funded by Medicare (Australian Government), pharmaceutical, health or food industries. Alternatively, graduates who elect studies in the physical sciences, mathematics or business are well placed for careers in the manufacturing industry.

The course combines studies in exercise physiology, sports psychology, biomechanics motor control and exercise prescription with a broad understanding of biomedicine and various health science fields to develop the professional competencies important for ethical and safe practice and high quality care and the skills to work in multidisciplinary teams. Facilities are state-of-the-art, centred on an Exercise and Sport Science Laboratory complex, and practical experience is a strong feature of the program.

Study Mode

Three years full-time. Students may choose to study at a reduced load.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal

Accreditation

The Bachelor of Health Science (Sport and Exercise Science) course is accredited at the level of exercise science by the National University Course Accreditation Program of Exercise and Sports Science Australia (ESSA). Graduates are eligible for exercise science accreditation.

Admission

Assumed Knowledge: Any 2 units of English

Recommended Studies: Any 2 units of English, plus four units of Science and/or Mathematics. PDHPE can be counted as a science unit for this course.

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

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

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

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

Special Requirements

In order to enrol in Second Year Autumn units, all students must have: 1. Working with Children Check Student Declaration 2. National Police Check 3. Adult Vaccination Record Card 4. First Aid Certificate 5. Student Undertaking

Course Structure

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequence below.

Recommended Sequence

Start Year Full-time

Year 1

Autumn session

400880.2	Fundamentals of Exercise Science
400868.3	Human Anatomy and Physiology 1
400866.3	Culture, Diversity and Health
400871.2	Professional Health Competencies

Spring session

400881.3	Functional Anatomy
400869.3	Human Anatomy and Physiology 2
400863.2	Foundations of Research and Evidence-Based Practice
101614.3	Psychology and Health

Year 2

Autumn session

401140.1	Biomechanics
401142.1	Exercise Physiology
400883.4	Exercise Bioenergetics
401150.2	Exercise Testing and Measurement

Spring session

401143.2	Exercise Prescription I
401055.2	Sport and Exercise Psychology
401148.1	Strength and Conditioning
401141.3	Exercise Nutrition

Year 3**Autumn session**

401144.1	Exercise Prescription II
401149.1	Exercise Physiology Across the Lifespan
400886.3	Motor Control and Skill Acquisition
400864.3	Research Methods (Quantitative and Qualitative)

Spring session

401147.1	Applied Biomechanics
401146.1	Applied Physiology
400904.2	Work Experience in Sport and Exercise Science
401145.1	Exercise for Health and Disease Prevention

Mid-Year Entry**Year 1****Spring session**

400869.3	Human Anatomy and Physiology 2
400863.2	Foundations of Research and Evidence-Based Practice
101614.3	Psychology and Health
401055.2	Sport and Exercise Psychology

Autumn session

400880.2	Fundamentals of Exercise Science
400868.3	Human Anatomy and Physiology 1
401140.1	Biomechanics
401150.2	Exercise Testing and Measurement

Year 2**Spring session**

400881.3	Functional Anatomy
401143.2	Exercise Prescription I
401147.1	Applied Biomechanics
401141.3	Exercise Nutrition

Autumn session

401142.1	Exercise Physiology
400883.4	Exercise Bioenergetics
400866.3	Culture, Diversity and Health
400871.2	Professional Health Competencies

Year 3**Spring session**

401148.1	Strength and Conditioning
400904.2	Work Experience in Sport and Exercise Science
401145.1	Exercise for Health and Disease Prevention
401146.1	Applied Physiology

Autumn session

401144.1	Exercise Prescription II
401149.1	Exercise Physiology Across the Lifespan

400886.3	Motor Control and Skill Acquisition
400864.3	Research Methods (Quantitative and Qualitative)

Bachelor of Medical Science**3673.2**

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

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

This degree comprises three areas of major: biomedical science, medicinal chemistry and anatomy and physiology. The biomedical science major focuses on microbiology, biochemistry, molecular biology and aspects of health. The medicinal chemistry major focuses on chemistry and biochemistry, while the anatomy and physiology major focuses on anatomy, physiology and pharmacology. Graduates of this degree will find employment in areas such as medical research laboratories, hospital laboratories and in pathology laboratories and be well suited for positions in the pharmaceutical, medical sales and various research and quality control laboratories, as well as further study including research degrees, graduate pharmacy and graduate medicine degrees.

Study Mode

Three years full-time or six years part-time.

Location

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

Accreditation

The Medicinal Chemistry major within the Bachelor of Medical Science is accredited by the Royal Australian Chemical Institute (RACI) for normal entry of a graduate to the Chartered Chemist qualification.

Admission

Assumed knowledge required: At least two of biology, chemistry, mathematics and physics.

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

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

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

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

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

Course Structure

Recommended Sequence

Start Year Intake

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequences below.

Year 1

Autumn session

300802.2	Biodiversity
300811.1	Scientific Literacy
301126.1	Concepts in Human Anatomy

Choose one of

300800.2	Essential Chemistry 1
300808.2	Introductory Chemistry

Please note unit 300800 is no longer available from 2017. Students should take unit 300808 Introductory Chemistry.

Spring session

300816.1	Cell Biology
300803.1	Essential Chemistry 2
300818.1	Introduction to Physiology

Choose one of

300830.2	Analysis of Change
200263.5	Biometry
300672.2	Mathematics 1A
300831.3	Quantitative Thinking

Year 2 - Year 3

Students must select one of the following Majors

Note: some units in the Medicinal Chemistry and Anatomy and Physiology majors will need to be taken at Campbelltown campus

M3060.1	Medicinal Chemistry
M3061.1	Anatomy and Physiology
M3062.1	Biomedical Science

Mid Year Intake

The sequence of units for Mid Year Intake Year 1 students is different for each major. Please see the details under each major in the links above.

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points) including the sub-majors listed below.

Sub-majors

SM3048.1	Climate Change
SM3044.1	Microbiology
SM3050.1	Physics

Students who maintain a GPA of 5 or higher may use elective units toward obtaining an additional approved sub-major in Critical Thinking.

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Elective Units

The following unit, 301161 Work Integrated Learning in Science, is a level 2 elective unit that gives students the opportunity to undertake a short work placement within a professional organisation. For further details please follow the link

301161.1	Work Integrated Learning in Science
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Bachelor of Medical Science (Advanced)

3682.3

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

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

If you enjoy being constantly challenged and extended by your studies and are thinking about a career involving medical science or pharmaceutical research, then the Western Sydney University Medical Science (Advanced) degree is for you. This degree equips students with both specialised knowledge and enhanced inquiry skills in medicinal chemistry, biomedical science or anatomy and physiology. The Medical Science (Advanced) degree is designed to provide initial training for a range of careers in medical science while also allowing students to develop leadership and/or research skills. You can be partnered with experienced academic researchers and their research teams, and participate in the University's exciting research activities to facilitate your transition to postgraduate research studies or prepare you for a range of exciting career opportunities as high-achieving science graduates.

Study Mode

Three years full-time.

Location

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

Accreditation

The Medicinal Chemistry major for this degree is accredited by the Royal Australian Chemical Institute (RACI) for normal entry of a graduate to the Chartered Chemist qualification.

Admission

Assumed knowledge required: Minimum ATAR of 90. Students must maintain a Grade Point Average (GPA) of 5.0 or above to continue their enrolment in the course. If this GPA is not maintained they will be automatically transferred into the standard program after one warning (one semester of further study). Students in other Western Sydney University science courses who achieve a GPA of 5.0 or greater at the end of their first year of study may be admitted into the Advanced Science program by invitation if sufficient places are available.

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

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

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

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

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

Course Structure

Recommended Sequence

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequences below.

Note: some units in the Medicinal Chemistry and Anatomy and Physiology majors will need to be taken at Campbelltown campus.

Medicinal Chemistry

Students completing the Bachelor of Medical Science (Advanced) with a major in Medicinal Chemistry will complete the following course structure.

M3103.1 Medicinal Chemistry

Anatomy and Physiology

Students completing the Bachelor of Medical Science (Advanced) with a major in Anatomy and Physiology will complete the following course structure.

M3104.1 Anatomy and Physiology

Biomedical Science

Students completing the Bachelor of Medical Science (Advanced) with a major in Biomedical Science will complete the following course structure.

M3105.1 Biomedical Science

Bachelor of Medical Science (Forensic Mortuary Practice)

3733.1

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

This is a three year degree that combines traditional biomedical disciplines (biology, chemistry and biochemistry) with those of medical science (anatomy, physiology, pathology) and with a focus on forensic science in the senior years. Career opportunities include forensic mortuaries and forensic laboratories (as forensic technicians), and also in the funeral industry or as post mortem assistants.

This course will involve study at both Campbelltown and Hawkesbury campuses.

Study Mode

Three years full-time

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal
Hawkesbury Campus	Full Time	Internal

Admission

Assumed knowledge required: At least two of biology, chemistry, mathematics and physics.

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

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

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

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

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

Special Requirements

Students must have a National Police Certificate, and a First Aid Certificate. Students must comply with NSW Health vaccination requirements and be prepared to submit a completed Adult Immunisation Card to placement institutions.

Course Structure

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequences below.

This course will involve study at both Campbelltown and Hawkesbury campuses.

Recommended Sequence

Year 1

Autumn session

Campbelltown or Hawkesbury Campus

301126.1	Concepts in Human Anatomy
300811.1	Scientific Literacy
300806.1	Forensic Science

(Note: 300806 Forensic Science is only available at Hawkesbury campus)

Choose one of

300808.2	Introductory Chemistry
300800.2	Essential Chemistry 1

Please note unit 300800 is no longer available from 2017. Students should take unit 300808 Introductory Chemistry.

Spring session

Campbelltown or Hawkesbury Campus

200263.5	Biometry
300816.1	Cell Biology
300803.1	Essential Chemistry 2
300818.1	Introduction to Physiology

Year 2

Autumn session

Campbelltown or Hawkesbury Campus

300828.1	Physics 1
300936.1	Functional Proteins and Genes
300845.1	Genetics

Choose one of

300832.1	Analytical Chemistry
300843.1	Forensic and Environmental Analysis

Spring session

Campbelltown or Hawkesbury Campus

300817.1	Molecular Biology
300889.1	Pathological Basis of Disease
300898.3	Appendicular Skeleton

(Note: 300898 Appendicular Skeleton is only available at Campbelltown campus)

Summer session

Hawkesbury Campus

300935.2	Evidence and Crime Scene Management
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Year 3

Autumn session

Campbelltown and Hawkesbury Campus Concurrently

Campbelltown campus

300894.2	Anatomy of the Thorax and Abdomen
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Hawkesbury campus

300868.1	Forensic Chemistry
301120.2	Forensic Anthropology
301127.1	Mortuary Practice

Note: 301127 - Mortuary Practice will be offered from 2019.

Spring session

Campbelltown and Hawkesbury campus Concurrently

Campbelltown campus

300754.3	Neuroanatomy
300897.2	Anatomy of the Head and Neck

Hawkesbury campus

401170.2	Forensic Biology
301128.1	Advanced Mortuary Practice

Note: 301128 - Advanced Mortuary Practice will be offered from 2019

Bachelor of Natural Science (Advanced)

3683.1

Our world and its resources are under ever increasing pressure, and we need enthusiastic, switched-on people with new ideas and innovative approaches to address these challenges. We are seeing a bigger population, technology advancements and environmental issues, all of which are placing unprecedented pressure on our natural resources and the biosphere. An Advanced degree in the Natural Sciences will enable you to understand these competing pressures and contribute to the development of sustainable strategies to drive change. This is a challenging program that will stretch you - it includes advanced coursework, extension activities and fundamental research training. You will be partnered with experienced academic researchers and contribute to the University's exciting research activities. The degree will allow you to undertake any of the Natural Science programs in Animal Science, Environmental Management or Sustainable Agriculture and Food Security. Students undertake three Advanced Science projects, Advanced Science Project A, B and C. An Honours year is available to high-achieving students and further studies can be pursued (Masters (Hon) or PhD degree) leading to a research or academic career.

Information and details on how to apply for Honours will be provided to you as you progress through your Bachelor degree, or you can find out more online.

Study Mode

Three years full-time.

Location

Campus	Attendance	Mode
Hawkesbury Campus	Full Time	Internal

Admission

Entry requirements: Minimum ATAR of 90 with assumed knowledge of HSC mathematics and at least two of biology, chemistry and/or physics. Students must maintain a Grade Point Average (GPA) of 5.0 or above to continue their enrolment in the course. As part of the admission/enrolment process students will be required to sign a statement acknowledging that they understand that a minimum 5.0 GPA is required to remain in the program and that if this GPA is not maintained that they will be automatically transferred into the standard program.

Students in the base Natural science courses within the suite who achieve a GPA of 5.0 or greater at the end of their first year of study may be admitted into the Bachelor of Natural Science Advanced program if sufficient places are available.

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

Applicants who have undertaken studies overseas may have to provide proof of proficiency in English. Details of minimum English proficiency requirements and acceptable

proof can be found on the Universities Admissions Centre website (UAC).

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

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

Course Structure

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequences below.

Students in the Bachelor of Natural Science (Advanced) must follow one of the listed study programs.

Students enrolled in the Bachelor of Natural Science (Advanced) must complete the units appropriate to their chosen study program and the three project units listed below. These Advanced Science Project units are taken in Semesters 3, 4 and 5.

300937.1	Advanced Science Project A
300938.1	Advanced Science Project B
300910.1	Advanced Science Project C

Bachelor of Natural Science (Animal Science)

3670.1

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

Interactions between people and animals are increasing due to our ever-increasing reliance on animals for companionship and food production, whilst we also strive to understand the pressures placed on our unique wildlife. A Bachelor of Natural Science (Animal Science) will enable you to develop a deep understanding of these issues, through studies of animal behaviour, animal health and welfare, animal nutrition, animal production, animal reproduction, human-animal interactions, vertebrate biodiversity, and wildlife science. Throughout your studies, you will have access to diverse on-campus animal facilities including reptiles, native mammals, horses, sheep, cattle and deer and off-campus animal professionals and organisations such as wildlife parks, zoos, farms and horse studs. There are a range of majors (conservation biology, zoology) and sub-majors (environmental sustainability and management) offered in Natural Science and Science that can add diversity and/or focus to your degree, to enable your degree to be matched to your career aspirations. A variety of compelling and exciting career paths are available to graduates of this program, including international opportunities in the many fields of animal science.

Study Mode

Three years full-time.

Location

Campus	Attendance	Mode
Hawkesbury Campus	Full Time	Internal

Admission

Assumed Knowledge: Any two units of English and Mathematics.

Recommended Studies: One unit of Biology, Chemistry, Geography, Earth and Environmental Science or Agriculture.

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

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

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

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

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

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

Course Structure**Recommended Sequence**

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequences below.

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

300802.2	Biodiversity
300811.1	Scientific Literacy
300807.1	Human Animal Interactions
300813.1	Wildlife Studies

Spring session

300810.1	Resource Sustainability
300831.3	Quantitative Thinking
300801.1	Animal Science

And one elective

Year 2**Autumn session**

300931.1	Integrated Science
300834.1	Animal Health and Welfare
300853.1	Animal Nutrition and Feeding

And one elective

Spring session

300932.1	Natural Science Research Methods
300835.1	Animal Reproduction

Choose one of

300836.1	Botany
300838.1	Comparative Physiology

And one elective

Year 3**Autumn session**

300913.1	Field Project 1
300878.1	Animal Behaviour
300854.1	Animal Production

And one elective

Spring session

300914.1	Field Project 2
300861.1	Vertebrate Biodiversity

And two electives

Mid Year Intake**Year 1****Spring session**

300810.1	Resource Sustainability
300831.3	Quantitative Thinking
300801.1	Animal Science
300811.1	Scientific Literacy

Autumn session

300802.2	Biodiversity
300813.1	Wildlife Studies
300807.1	Human Animal Interactions

And one elective

Year 2**Spring session**

300932.1	Natural Science Research Methods
300835.1	Animal Reproduction

Choose one of

300836.1	Botany
300838.1	Comparative Physiology

And one elective

Autumn session

300913.1	Field Project 1
300834.1	Animal Health and Welfare
300853.1	Animal Nutrition and Feeding
300931.1	Integrated Science

Year 3**Spring session**

300914.1	Field Project 2
300861.1	Vertebrate Biodiversity

And two electives

Autumn session

300854.1	Animal Production
300878.1	Animal Behaviour

And two electives

Major and Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved major (80 credit points) or sub-major (40 credit points) including the majors and sub-majors listed below.

Majors

M3049.1	Conservation Biology
M3082.1	Zoology

Sub-majors

SM3062.1	Aquatic Environments
SM3048.1	Climate Change
SM3042.1	Conservation Biology
SM3045.1	Zoology

Major and Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved major (80 credit points) or sub-major (40 credit points).

Students who maintain a GPA of 5 or higher may use elective units toward obtaining an additional approved sub-major in Critical Thinking.

Western Sydney University offers majors and sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Elective Units

The following unit, 301161 Work Integrated Learning in Science, is a level 2 elective unit that gives students the opportunity to undertake a short work placement within a professional organisation. For further details please follow the link

301161.1	Work Integrated Learning in Science
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**Bachelor of Natural Science
(Environment and Health)****3672.1**

The air we breathe, the water we drink, the food we eat, and the places we live, work and play all have major impacts on our health and well-being. Health scares such as swine/bird flu, obesity, cancers and asthma have all been connected to our environmental conditions. A Bachelor of Natural Science (Environment and Health) will equip you to explore the diverse range of natural and built-environment challenges that confront us, from the mitigation of human health impacts of global climate change through to the more localised issues of air and water quality, waste management, food security, environmental noise and healthy communities. The major areas of study addressed within the program include air pollution; community studies; emergency management; environmental regulation and policy; environmental monitoring; environmental planning; environmental protection; epidemiology; food safety; noise, occupational environment; risk assessment; sustainable environmental management; toxicology; urban development and water pollution. A variety of fulfilling career paths are available to graduates of this program.

Study Mode

Three years full-time or six years part-time, in external mode.

Location

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

Accreditation

This course is currently accredited by Environmental Health Australia.

Admission

Assumed Knowledge: Any two units of Mathematics and Science or equivalent.

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

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

This course is not available to International Students.

Course Structure

Recommended Sequence

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequences below.

In addition to the units below, unit 300655 Approved Industrial Experience must be completed to meet the requirements to graduate, despite students not being awarded credit points after the completion of the unit.

300655.2 Approved Industrial Experience

Start Year Intake

Full-time

Year 1

Autumn session

300802.2 Biodiversity
300811.1 Scientific Literacy
300824.1 Management of Aquatic Environments
300808.2 Introductory Chemistry

Spring session

300810.1 Resource Sustainability
300831.3 Quantitative Thinking
300821.1 Environment and Health
300814.1 Water Quality Assessment and Management

Year 2

Autumn session

300931.1 Integrated Science
300872.1 Epidemiology
300840.1 Environmental Planning and Climate Change
300844.1 General Microbiology

Spring session

300932.1 Natural Science Research Methods
300877.1 Toxicology
300841.1 Environmental Regulation and Policy
300859.1 Food Safety

Year 3

Autumn session

300913.1 Field Project 1
300919.1 Occupational Health and Safety
300858.1 Environmental Risk Management
300852.1 Air Quality and Climate Change

Spring session

300914.1 Field Project 2
300860.1 Urban Environment
300867.1 Disease Prevention and Control
300880.1 Disaster and Emergency Management

Part-time

Year 1

Autumn session

300802.2 Biodiversity
300811.1 Scientific Literacy

Spring session

300831.3 Quantitative Thinking
300821.1 Environment and Health

Year 2

Autumn session

300844.1 General Microbiology
300931.1 Integrated Science

Spring session

300810.1 Resource Sustainability
300877.1 Toxicology

Year 3

Autumn session

300808.2 Introductory Chemistry
300840.1 Environmental Planning and Climate Change

Spring session

300932.1 Natural Science Research Methods
300841.1 Environmental Regulation and Policy

Year 4

Autumn session

300824.1 Management of Aquatic Environments
300852.1 Air Quality and Climate Change

Quarter 3 session

300880.1 Disaster and Emergency Management

Spring session

300859.1 Food Safety

Year 5

Autumn session

300872.1 Epidemiology
300919.1 Occupational Health and Safety

Spring session

300814.1 Water Quality Assessment and Management
300867.1 Disease Prevention and Control

Year 6**Autumn session**

- 300913.1** Field Project 1
300858.1 Environmental Risk Management

Spring session

- 300914.1** Field Project 2
300860.1 Urban Environment

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

- 300810.1** Resource Sustainability
300811.1 Scientific Literacy
300821.1 Environment and Health
300814.1 Water Quality Assessment and Management

Autumn session

- 300802.2** Biodiversity
300831.3 Quantitative Thinking
300824.1 Management of Aquatic Environments
300808.2 Introductory Chemistry

Year 2**Spring session**

- 300932.1** Natural Science Research Methods
300877.1 Toxicology
300859.1 Food Safety
300841.1 Environmental Regulation and Policy

Autumn session

- 300913.1** Field Project 1
300931.1 Integrated Science
300840.1 Environmental Planning and Climate Change
300844.1 General Microbiology

Year 3**Spring session**

- 300914.1** Field Project 2
300860.1 Urban Environment
300867.1 Disease Prevention and Control
300880.1 Disaster and Emergency Management

Autumn session

- 300872.1** Epidemiology
300919.1 Occupational Health and Safety
300858.1 Environmental Risk Management
300852.1 Air Quality and Climate Change

Part-time**Year 1****Spring session**

- 300821.1** Environment and Health
300811.1 Scientific Literacy

Autumn session

- 300802.2** Biodiversity
300831.3 Quantitative Thinking

Year 2**Spring session**

- 300810.1** Resource Sustainability
300877.1 Toxicology

Autumn session

- 300844.1** General Microbiology
300931.1 Integrated Science

Year 3**Spring session**

- 300932.1** Natural Science Research Methods
300841.1 Environmental Regulation and Policy

Autumn session

- 300808.2** Introductory Chemistry
300840.1 Environmental Planning and Climate Change

Year 4**Quarter 3 session**

- 300880.1** Disaster and Emergency Management

Spring session

- 300859.1** Food Safety

Autumn session

- 300824.1** Management of Aquatic Environments
300852.1 Air Quality and Climate Change

Year 5**Spring session**

- 300814.1** Water Quality Assessment and Management
300867.1 Disease Prevention and Control

Autumn session

- 300872.1** Epidemiology
300913.1 Field Project 1

Year 6**Spring session**

300914.1	Field Project 2
300860.1	Urban Environment

Autumn session

300919.1	Occupational Health and Safety
300858.1	Environmental Risk Management

Bachelor of Natural Science (Environmental Management)

3671.2

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

History has shown that if we don't effectively manage our environment, we will degrade it - possibly to the point where it can no longer sustain us. Environmental managers are concerned with ensuring the ecological sustainability of human development and minimising the size of our "ecological footprint". A Bachelor of Natural Science (Environmental Management) will develop your problem solving skills and equip you to work collaboratively with both community members and professional practitioners to develop innovative policy and strategies that address the increasingly complex causes of today's environmental problems. Issues include urban development, global climate change, persistent organic pollutants (POPs), decreasing biodiversity, deteriorating air and water quality, and sustainable use of natural resources. The major areas embodied within the program include assessment and management of aquatic environments water quality assessment and management; introduction to wildlife; sustainable land and resource use; Indigenous land management; environmental planning; climate change science; environmental regulation and policy; environmental risk management and urban development. The majors (aquatic and conservation biology) and sub-majors (environmental sustainability and management) offered in Natural Science and Science can add diversity and/or focus to your degree, to help match your studies to your career aspirations.

Study Mode

Three years full-time or six years part-time.

Location

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

Accreditation

This course is accredited by Environmental Health Australia.

Admission

Assumed Knowledge: Any two units of Science (Biology or Chemistry recommended) and any two units of English.

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

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

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

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

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

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

Course Structure**Recommended Sequence**

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequences below.

Note - At least 60 credit points must be at Level 3 or above (one elective must be at least a Level 3 unit)

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

300802.2	Biodiversity
300811.1	Scientific Literacy
300813.1	Wildlife Studies
300824.1	Management of Aquatic Environments

Spring session

300810.1	Resource Sustainability
300831.3	Quantitative Thinking
300814.1	Water Quality Assessment and Management
300812.1	Understanding Landscape

Year 2**Autumn session**

300931.1	Integrated Science
300840.1	Environmental Planning and Climate Change

And two electives

Spring session

300932.1	Natural Science Research Methods
300875.1	Landuse and the Environment
300841.1	Environmental Regulation and Policy
300959.1	Mangamai'bangawarra: Indigenous Science

Year 3**Autumn session**

300913.1	Field Project 1
300858.1	Environmental Risk Management

And two electives

Spring session

300914.1	Field Project 2
300860.1	Urban Environment
300870.1	Water in the Landscape

And one elective

Mid Year Intake**Year 1****Spring session**

300810.1	Resource Sustainability
300811.1	Scientific Literacy
300814.1	Water Quality Assessment and Management
300812.1	Understanding Landscape

Autumn session

300802.2	Biodiversity
300831.3	Quantitative Thinking
300813.1	Wildlife Studies
300824.1	Management of Aquatic Environments

Year 2**Spring session**

300932.1	Natural Science Research Methods
300875.1	Landuse and the Environment
300841.1	Environmental Regulation and Policy

And one elective

Autumn session

300913.1	Field Project 1
300931.1	Integrated Science
300840.1	Environmental Planning and Climate Change

And one elective

Year 3**Spring session**

300914.1	Field Project 2
300860.1	Urban Environment
300870.1	Water in the Landscape
300959.1	Mangamai'bangawarra: Indigenous Science

Autumn session

300858.1	Environmental Risk Management
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And three electives

Major and Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved major (80 credit points) or sub-major (40 credit points) including the majors and sub-majors listed below.

Majors

M3046.1	Aquatic Biology
M3049.1	Conservation Biology
M4011.1	Environmental Consulting

Sub-majors

SM3062.1	Aquatic Environments
SM3048.1	Climate Change
SM3042.1	Conservation Biology

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Students who maintain a GPA of 5 or higher may use elective units toward obtaining an additional approved sub-major in Critical Thinking.

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Bachelor of Occupational Therapy**4711.1**

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

The course in occupational therapy is offered as a Bachelor of Occupational Therapy. The first two years of the program combine studies in occupational therapy with a broad understanding of biomedicine and various health science fields to develop the professional competencies important for ethical and safe practice and high quality care and the skills to work in multidisciplinary teams. The final two years focus predominately on occupational therapy practice skills, practical experience and specialised areas. Evidence-based practice is one of the most important trends in healthcare today and a strong feature of the program.

An honours stream is available for high performing students. Students may also exit after year 3 with a Bachelor of Health Science degree but are unable to practice as an occupational therapist.

Study Mode

Four years full-time

Location

Campus	Attendance Mode
Campbelltown Campus	Full Time Internal

Accreditation

This program is accredited by the Occupational Therapy Council as an approved program of study in Australia and graduates are eligible for professional registration by the Australian Health Practitioners Regulation Agency (AHPRA)

Admission

Assumed knowledge: any 2 units of English.

Recommended studies: Physics, Chemistry, Biology and/or Personal Development Health and Physical Education.

To be eligible to undertake fieldwork or practice placements, students must also comply with the NSW Health Records and Information Privacy Act (2004) and complete a relevant declaration.

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

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

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

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

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

Special Requirements

To be able to enrol in the first year Spring unit 400907 Occupational Therapy Practice 1 and subsequent occupational therapy fieldwork units, all students must have a National Police Certificate, a Working with Children Check Student Declaration and a First Aid Certificate (including cardiopulmonary resuscitation). To be eligible to undertake fieldwork placements in public hospitals, students must comply with NSW Health vaccination requirements and be prepared to submit a completed Adult Immunisation Card to placement institutions. Details of necessary vaccinations are available from NSW Health. To meet NSW health requirements for clinical placements, students will be required to attend a 'bulk compliance' appointment to have their special requirements verified by NSW Health staff.

Course Structure

Qualification for this award requires the successful completion of 320 credit points which include the units listed in the recommended sequence below.

Recommended Sequence**Full-time****Year 1****Autumn session**

400870.2	Population Health and Society
400868.3	Human Anatomy and Physiology 1
400160.4	Introduction to Occupational Therapy
400871.2	Professional Health Competencies

Spring session

400907.4	Occupational Therapy Practice 1
400869.3	Human Anatomy and Physiology 2
400863.2	Foundations of Research and Evidence-Based Practice
400732.2	Communication in Health

Year 2**Autumn session**

400909.4	Occupational Therapy Practice 2
400138.3	Pathophysiology 1
400864.3	Research Methods (Quantitative and Qualitative)
400866.3	Culture, Diversity and Health

Spring session

300754.3	Neuroanatomy
400881.3	Functional Anatomy
101614.3	Psychology and Health
400908.2	People, Environment and Occupations

Year 3**1H session**

400171.4	Occupation and Neurology
400169.4	Occupation and Mental Health
400910.2	Occupational Therapy Practice 3
400162.4	Child and Adolescent Occupations

Spring session

400165.4	Occupation and the Environment
400865.3	Evidence-Based Practice
400176.4	Occupation and Ageing
401123.2	Occupational Justice

At this point, students may exit with a Bachelor of Health Science

Year 4**Autumn session**

401122.1	Occupational Therapy Project
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- 401124.1 Occupational Therapy Specialties
 401121.1 Ergonomics and Work Occupations
 401125.1 Professional Reasoning

Spring session

- 401126.1 Occupational Therapy Practice 4A
 401127.1 Occupational Therapy Practice 4B

Bachelor of Occupational Therapy (Honours)

4712.1

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

The course in occupational therapy is offered as a Bachelor of Occupational Therapy. The first two years of the program combine studies in occupational therapy with a broad understanding of biomedicine and various health science fields to develop the professional competencies important for ethical and safe practice and high quality care and the skills to work in multidisciplinary teams. The final two years focus predominately on occupational therapy practice skills, practical experience and specialised areas. Evidence-based practice is one of the most important trends in healthcare today and a strong feature of the program.

An honours stream is available for high performing students. Students may also exit after year 3 with a Bachelor of Health Science degree but are unable to practice as an occupational therapist.

Study Mode

Four years full-time

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal

Accreditation

This program is accredited by the Occupational Therapy Council as an approved program of study in Australia and graduates are eligible for professional registration by the Australian Health Practitioners Regulation Agency (AHPRA)

Admission

Admission is through direct application to the university - applications are directed to the School of Science and Health.

Students must have completed 200 credit points in the first 2.5 years of the Western Sydney University Bachelor of Occupational Therapy course and high performing students are invited into the Bachelor of Occupational Therapy (Honours) program. Students with a GPA of 5 and above are eligible for invitation.

Special Requirements

To be able to enrol in the first year Spring unit 400907 Occupational Therapy Practice 1 and subsequent occupational therapy fieldwork units, all students must have a National Police Certificate, a Working with Children Check Student Declaration and a First Aid Certificate (including cardiopulmonary resuscitation). To be eligible to undertake fieldwork placements in public hospitals, students must comply with NSW Health vaccination requirements and be prepared to submit a completed Adult Immunisation Card to placement institutions. Details of necessary vaccinations are available from NSW Health. To meet NSW health requirements for clinical placements, students will be required to attend a 'bulk compliance' appointment to have their special requirements verified by NSW Health staff.

Course Structure

Qualification for this award requires the successful completion of 320 credit points which include the units listed in the recommended sequence below.

Recommended Sequence

Year 1

Autumn session

- 400870.2 Population Health and Society
 400868.3 Human Anatomy and Physiology 1
 400160.4 Introduction to Occupational Therapy
 400871.2 Professional Health Competencies

Spring session

- 400907.4 Occupational Therapy Practice 1
 400869.3 Human Anatomy and Physiology 2
 400863.2 Foundations of Research and Evidence-Based Practice
 400732.2 Communication in Health

Year 2

Autumn session

- 400909.4 Occupational Therapy Practice 2
 400138.3 Pathophysiology 1
 400864.3 Research Methods (Quantitative and Qualitative)
 400866.3 Culture, Diversity and Health

Spring session

- 300754.3 Neuroanatomy
 400881.3 Functional Anatomy
 101614.3 Psychology and Health
 400908.2 People, Environment and Occupations

Year 3

1H session

- 400171.4 Occupation and Neurology
 400169.4 Occupation and Mental Health
 400910.2 Occupational Therapy Practice 3
 400162.4 Child and Adolescent Occupations

Spring session

400944.2	Evidence-Based Practice (Advanced)
400165.4	Occupation and the Environment
400176.4	Occupation and Ageing
401123.2	Occupational Justice

Year 4**1H session**

400945.1	Honours Research 1
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Autumn session

401121.1	Ergonomics and Work Occupations
401125.1	Professional Reasoning

2H session

400946.1	Honours Research 2
401161.1	Occupational Therapy Practice 4 (Honours)

Bachelor of Physiotherapy**4706.2**

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

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

Physiotherapy is a highly regarded profession and demand for physiotherapists is strong. Physiotherapists work in private practice, aged care settings, private and public hospitals, workplaces, community based agencies, schools, rehabilitation centres and chronic health management clinics. Patients range across the life span, from birth to athletes and the elderly. The course in physiotherapy is offered as a 4-year Bachelor of Physiotherapy. The first three years of the program combine studies in physiotherapy with a broad understanding of biomedicine and health science fields to develop the professional competencies important for ethical and safe practice, high quality care and the skills to work in multidisciplinary teams. The final year focuses predominately on the development of physiotherapy practice skills, which are used during clinical placements to treat patients in the community. Evidence-based practice is one of the most important trends in healthcare today and a strong feature of the program.

The Honours program is available to high achieving students in the Bachelor of Physiotherapy. Honours is a key early step in the pathway to leadership in the profession and opens up the world of research, without taking any longer to complete the degree. Students apply for entry into the Honours program in year 3 of the combined degree. They begin advanced research training in the latter half of year 3. Clinical placements and an honours thesis are completed during the fourth year of the program. The thesis

presents research that addresses real physiotherapy problems. This research will be conducted under the supervision of experienced academic researchers.

Study Mode

Four years full-time

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal

Accreditation

The Bachelor of Physiotherapy and Bachelor of Physiotherapy (Hons) are accredited by the Australian Physiotherapy Council and are approved programs of study by the Physiotherapy Board of Australia.

Inherent requirements

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

Admission

Assumed knowledge: any 2 units of English.

Recommended studies: Biology.

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

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

Special Requirements

In order to enrol in Second Year Spring units, all students must have: National Police Certificate, Working with Children Check Student Declaration and First Aid Certificate (including cardiopulmonary resuscitation). To be eligible for clinical placements, students must comply with vaccination requirements and be prepared to submit a completed Adult Immunisation Card to placement institutions. NSW Health can provide details of necessary vaccinations. To meet NSW health requirements for clinical placements, second year students will be required to attend a 'bulk compliance' appointment to have their special requirements verified by NSW Health staff. To be eligible to undertake field/work/practice placements, students must also comply with the NSW Health Records and Information Privacy Act (2004) and complete a relevant declaration. In clinical placement units, students must wear the Western Sydney physiotherapy uniform, which complies with NSW uniform requirements. Special note: Students in this program are required to participate fully in practical classes. This involves disrobing to shorts and singlet or swim-suit equivalent in mixed gender classes. Students will practice hands-on physiotherapy examination and treatment techniques on both genders, and will personally experience these techniques which will be performed on them by other students and relevant academic staff.

Course Structure

Qualification for this award requires the successful completion of 320 credit points which include the units listed in the recommended sequence below.

Recommended Sequence

Year 1

Autumn session

400870.2	Population Health and Society
400868.3	Human Anatomy and Physiology 1
400906.2	Introduction to Physiotherapy Practice
400871.2	Professional Health Competencies

Spring session

400881.3	Functional Anatomy
400869.3	Human Anatomy and Physiology 2
400863.2	Foundations of Research and Evidence-Based Practice
400732.2	Communication in Health

Year 2

Autumn session

401140.1	Biomechanics
400138.3	Pathophysiology 1
400864.3	Research Methods (Quantitative and Qualitative)
400866.3	Culture, Diversity and Health

2H session

400982.4	Core Competencies in Physiotherapy Practice
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Spring session

300754.3	Neuroanatomy
400981.2	Clinical Pharmacology
101614.3	Psychology and Health

Year 3

1H session

400997.4	Exercise Rehabilitation
400986.2	Neurological Physiotherapy
401199.1	Musculoskeletal Physiotherapy A

Autumn session

401197.1	Clinical Education (General)
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Spring session

400984.2	Cardiorespiratory Physiotherapy
400998.3	Neurological Rehabilitation
400865.3	Evidence-Based Practice
401200.1	Musculoskeletal Physiotherapy B

At this point, students may exit with a Bachelor of Health Science

Year 4

1H/2H sessions

Students must complete the four units Clinical Education A, B, C, D in Year 4 of the course. Due to availability of clinical placements, these units are available in both 1H and 2H sessions.

400985.3	Clinical Education A (Acute Care)
401110.2	Clinical Education B (Rehabilitation)
401111.2	Clinical Education C (Ambulatory Care)
401112.2	Clinical Education D (Paediatrics)

1H session

401106.2	Paediatric Physiotherapy
401107.2	Physiotherapy for Chronic Illness and Disease

2H session

401108.2	Complex Cases and Professional Issues
401109.1	Integrating Research into Physiotherapy Practice

Bachelor of Physiotherapy (Honours)

4733.1

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

The Honours program is available to high achieving students in the Bachelor of Physiotherapy. Honours is a key early step in the pathway to leadership in the profession and opens up the world of research, without taking any longer to complete the degree. Students apply for entry into the Honours program in year 3 of the combined degree. They begin advanced research training in the latter half of year 3. Clinical placements and an honours thesis are completed during the fourth year of the program. The thesis presents research that addresses real physiotherapy problems. This research will be conducted under the supervision of experienced academic researchers.

Study Mode

Four years full-time

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal

Accreditation

The Bachelor of Physiotherapy and Bachelor of Physiotherapy (Hons) are accredited by the Australian Physiotherapy Council and are approved programs of study by the Physiotherapy Board of Australia.

Inherent requirements

There are inherent requirements for this course that you must meet in order to complete your course and graduate.

Make sure you read and understand the requirements for this course online.

Admission

Admission is through direct application to the University – applications are directed to the School of Science and Health.

Students must have completed 200 credit points in the first two and a half years of the Western Sydney Bachelor of Physiotherapy course and achieved a GPA of 6.0 or greater. Students with a GPA in the range of 5.0-6.0 and a credit average in units completed in Bachelor of Physiotherapy levels 2 and 3 will also be considered (in accordance with the Honours Policy clause 13 and the Graduations Policy clause 53).

Special Requirements

In order to enrol in Second Year Spring units, all students must have: National Police Certificate, Working with Children Check Student Declaration and First Aid Certificate (including cardiopulmonary resuscitation). To be eligible for clinical placements, students must comply with vaccination requirements and be prepared to submit a completed Adult Immunisation Card to placement institutions. NSW Health can provide details of necessary vaccinations. To meet NSW health requirements for clinical placements, second year students will be required to attend a 'bulk compliance' appointment to have their special requirements verified by NSW Health staff. To be eligible to undertake field/work/practice placements, students must also comply with the NSW Health Records and Information Privacy Act (2004) and complete a relevant declaration. In clinical placement units, students must wear the Western Sydney physiotherapy uniform, which complies with NSW uniform requirements. Special note: Students in this program are required to participate fully in practical classes. This involves disrobing to shorts and singlet or swim-suit equivalent in mixed gender classes. Students will practice hands-on physiotherapy examination and treatment techniques on both genders, and will personally experience these techniques which will be performed on them by other students and relevant academic staff.

Course Structure

Qualification for this award requires the successful completion of 340 credit points which include the units listed in the recommended sequence below.

Recommended Sequence

Year 1

Autumn session

400870.2	Population Health and Society
400868.3	Human Anatomy and Physiology 1
400906.2	Introduction to Physiotherapy Practice
400871.2	Professional Health Competencies

Spring Session

400881.3	Functional Anatomy
400869.3	Human Anatomy and Physiology 2
400863.2	Foundations of Research and Evidence-Based Practice
400732.2	Communication in Health

Year 2

Autumn session

401140.1	Biomechanics
400138.3	Pathophysiology 1
400864.3	Research Methods (Quantitative and Qualitative)
400866.3	Culture, Diversity and Health

2H session

400982.4	Core Competencies in Physiotherapy Practice
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Spring session

300754.3	Neuroanatomy
400981.2	Clinical Pharmacology
101614.3	Psychology and Health

Year 3

1H session

400997.4	Exercise Rehabilitation
400986.2	Neurological Physiotherapy
401199.1	Musculoskeletal Physiotherapy A

Autumn session

401197.1	Clinical Education (General)
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Spring session

400984.2	Cardiorespiratory Physiotherapy
400998.3	Neurological Rehabilitation
400944.2	Evidence-Based Practice (Advanced)
401200.1	Musculoskeletal Physiotherapy B

Year 4

1H/2H sessions

Students must complete the four units Clinical Education A, B, C, D in Year 4 of the course. Due to availability of clinical placements, these units are available in both 1H and 2H sessions.

400985.3	Clinical Education A (Acute Care)
401110.2	Clinical Education B (Rehabilitation)
401111.2	Clinical Education C (Ambulatory Care)
401112.2	Clinical Education D (Paediatrics)

1H session

401106.2	Paediatric Physiotherapy
401107.2	Physiotherapy for Chronic Illness and Disease

Autumn session

400945.1	Honours Research 1
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Spring session

400946.1	Honours Research 2
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Bachelor of Podiatric Medicine

4708.1

This version of the course is available to new and continuing students. Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in the course was 2015 or later.

Podiatrists are best known for treating problems that people experience with their feet and lower limbs, but they are increasingly playing an important role in addressing chronic conditions such as diabetes and rheumatology. Podiatrists treat a range of patients including children, adults, workers, sportspeople and the older population. There is a focus on podiatric applications including management of common problems such as ingrown toenails or bunions, chronic disease management, musculoskeletal rehabilitation, footwear assessment and orthoses fabrication. Over the course of the program students will complete 1000 hours clinical hours inclusive of Uniclinic sessions and 19 weeks of clinical placement in a range of facilities including hospitals, community centres, private practices, and sports medicine centres, in rural and metropolitan locations. Continuing education on completion of the program can lead to opportunities for advanced practice such as restricted therapeutic prescription rights and application for training as a podiatric surgeon. The course in podiatry is offered as a 4-year Bachelor of Podiatric Medicine. The first three years of the program combine studies in podiatry with a broad understanding of biomedicine and various health science fields to develop the professional competencies important for ethical and safe practice and high quality care and the skills to work in multidisciplinary teams. The final year focuses predominately on podiatry practice skills, practical experience and specialised areas. Evidence-based practice is one of the most important trends in healthcare today and a strong feature of the program.

Study Mode

Four years full-time.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal

Accreditation

The Western Sydney University Bachelor of Podiatric Medicine is an accredited program of study and students are eligible to register with the Australian Health Practitioner Regulation Agency. This course has been accredited by Australia and New Zealand Podiatry Accreditation Council (ANZPAC).

Inherent requirements

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

Admission

Assumed knowledge: Any 2 unit of English

Recommended Studies: Mathematics, Physics and Biology Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC).

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

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

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

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

Special Requirements

In order to enrol in Second Year clinical units with clinical placement requirements, all students must have: National Police Certificate, Working with Children Check, Student Declaration, First Aid Certificate (including cardiopulmonary resuscitation). To be eligible for clinical placements, students must comply with vaccination requirements and be prepared to submit a completed Adult Immunisation Card to placement institutions. NSW Health can provide details of necessary vaccinations. To meet NSW health requirements for clinical placements, second year students will be required to attend a 'bulk compliance' appointment to have their special requirements verified by NSW Health staff. To be eligible to undertake field/work/practice placements, students must also comply with the NSW Health Records and Information Privacy Act (2004) and complete a relevant declaration. In clinical placement units, students must wear the Western Sydney University podiatric medicine uniform, which complies with NSW uniform requirements. Special note: Students in this program are required to participate fully in practical classes. This involves practical hands-on podiatry / lower extremity examination and treatment techniques on both genders and students will personally experience these techniques which will be performed on them by other students and/or relevant academic staff. Students are also required to undertake 19 weeks of clinical placement activity which can include rural and metropolitan locations. Student must meet their own travel, accommodation and living expenses during these activities.

Course Structure

Qualification for this award requires the successful completion of 320 credit points which include the units listed in the recommended sequence below.

Recommended Sequence

Year 1

Autumn session

400870.2	Population Health and Society
400868.3	Human Anatomy and Physiology 1
400905.2	Introduction to Podiatry
400871.2	Professional Health Competencies

Spring session

400881.3	Functional Anatomy
400869.3	Human Anatomy and Physiology 2
400863.2	Foundations of Research and Evidence-Based Practice
400732.2	Communication in Health

Year 2

1H Session

401181.1	Pathomechanics and Podiatric Medicine
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Autumn session

401140.1	Biomechanics
400138.3	Pathophysiology 1
400864.3	Research Methods (Quantitative and Qualitative)

2H Session

400933.4	Podiatry Pre-Clinical
401180.1	Musculoskeletal Disorders and Imaging

Spring session

300754.3	Neuroanatomy
400981.2	Clinical Pharmacology

Year 3

1H session

400929.3	Podiatric Practice 1
401184.1	The High Risk Foot
401182.1	Pharmacology for Podiatrists

Autumn session

400866.3	Culture, Diversity and Health
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2H session

400930.4	Podiatric Practice 2
401183.1	Podiatric Surgery

Spring session

101614.3	Psychology and Health
400865.3	Evidence-Based Practice

At this point, students may exit with the Bachelor of Health Science (no specialisation)

Year 4

1H Session

401115.1	Podiatric Paediatrics and Sports Medicine
401116.1	Dermatology and Gerontology
401114.1	Podiatric Practice 3

And one elective

2H Session

401119.1	Podiatric Professional Practice Studies
401117.2	Podiatric Clinical Block
401118.2	Podiatric Practice 4

Students will exit with Bachelor of Podiatric Medicine

Bachelor of Podiatric Medicine (Honours)

4709.1

The Honours program is available to high achieving students in the Bachelor of Podiatric Medicine. Honours is a key early step in the path to leadership in the profession and opens up the world of research, without taking any longer to complete the degree. The honours program encourages independent learning, develops research skills and provides an opportunity for deeper investigation in the major field of study. An honours program is a recognised preparation and entry point for postgraduate research studies and the research training is valuable preparation for careers in research and development and analysis in the public and private sectors. Students apply for entry into the Honours program in year 3 of their degree. They begin advanced research training in the latter half of year 3. Clinical placements and an honours thesis are completed during the fourth year of the program. The thesis presents research that addresses real podiatric problems and education across the lifespan. This research will be conducted under the supervision of experienced academic researchers.

Study Mode

Four years full-time.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal

Accreditation

The Western Sydney University Bachelor of Podiatric Medicine (Honours) is an accredited program of study and students are eligible to register with the Australian Health Practitioner Regulation Agency. This course has been accredited by Australia and New Zealand Podiatry Accreditation Council (ANZPAC).

Inherent requirements

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

Admission

Admission is through direct application to the university - applications are directed to the School of Science and Health.

Students must have completed 200 credit points in the first 2.5 years of the Western Sydney University Bachelor of Podiatric Medicine course and achieved a GPA of 5.0 or greater. Students with a GPA in the range of 4.5-5.0 and a credit average in units completed in Bachelor of Podiatric Medicine levels 2 and 3 will also be considered (in accordance with the Honours Policy clause 13 and the Graduations Policy clause 53).

Special Requirements

In order to enrol in Second Year clinical units with clinical placement requirements, all students must have: National Police Certificate, Working with Children Check, Student Declaration, First Aid Certificate (including cardiopulmonary resuscitation). To be eligible for clinical placements, students must comply with vaccination requirements and be prepared to submit a completed Adult Immunisation Card to placement institutions. NSW Health can provide details of necessary vaccinations. To meet NSW health requirements for clinical placements, second year students will be required to attend a 'bulk compliance' appointment to have their special requirements verified by NSW Health staff. To be eligible to undertake field/work/practice placements, students must also comply with the NSW Health Records and Information Privacy Act (2004) and complete a relevant declaration. In clinical placement units, students must wear the Western Sydney University podiatric medicine uniform, which complies with NSW uniform requirements. Special note: Students in this program are required to participate fully in practical classes. This involves practical hands-on podiatry / lower extremity examination and treatment techniques on both genders and students will personally experience these techniques which will be performed on them by other students and/or relevant academic staff. Students are also required to undertake 19 weeks of clinical placement activity which can include rural and metropolitan locations. Student must meet their own travel, accommodation and living expenses during these activities.

Course Structure

Qualification for this award requires the successful completion of 320 credit points which include the units listed in the recommended sequence below.

Recommended Sequence

Year 1

Autumn session

400870.2	Population Health and Society
400868.3	Human Anatomy and Physiology 1
400905.2	Introduction to Podiatry
400871.2	Professional Health Competencies

Spring session

400881.3	Functional Anatomy
400869.3	Human Anatomy and Physiology 2
400863.2	Foundations of Research and Evidence-Based Practice

400732.2 Communication in Health

Year 2

1H Session

401181.1 Pathomechanics and Podiatric Medicine

Autumn session

401140.1	Biomechanics
400138.3	Pathophysiology 1
400864.3	Research Methods (Quantitative and Qualitative)

2H Session

400933.4 Podiatry Pre-Clinical

Spring session

401180.1	Musculoskeletal Disorders and Imaging
300754.3	Neuroanatomy
400981.2	Clinical Pharmacology

Year 3

1H session

400929.3	Podiatric Practice 1
401184.1	The High Risk Foot

Autumn session

400866.3	Culture, Diversity and Health
401182.1	Pharmacology for Podiatrists

2H session

400930.4 Podiatric Practice 2

Spring session

401183.1	Podiatric Surgery
101614.3	Psychology and Health
400944.2	Evidence-Based Practice (Advanced)

At this point, students may exit with the Bachelor of Health Science (no specialisation)

Term 3

400945.1 Honours Research 1

Year 4

1H Session

401115.1	Podiatric Paediatrics and Sports Medicine
401116.1	Dermatology and Gerontology
401046.2	Honours Research 2 (Podiatric Medicine)
401114.1	Podiatric Practice 3

2H Session

401120.1	Clinical and Professional Practice (Honours)
401046.2	Honours Research 2 (Podiatric Medicine)
401118.2	Podiatric Practice 4

Students will exit with Bachelor of Podiatric Medicine (Honours)

Bachelor of Science

3675.4

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

Science asks questions about how the natural world works. It does so in a systematic, yet rigorously creative way based on inquiry and evidence for ideas. This approach has led to our current understanding of nature as being (in large part) systematic and predictable, and has underpinned major advances in human welfare. A Bachelor of Science will prepare you to take part in this process of enquiry, by both contributing to it and by using scientific knowledge to solve current problems. Students will learn core concepts and skills necessary for scientific inquiry: investigating the natural world, proposing and testing ideas by experimentation and observation; quantifying and modelling processes; communicating findings, thinking independently and critically. Students can enrol in a generalist Bachelor of Science or a Bachelor of Science in a specific discipline. Within each program students can select from a range of scientific disciplines to suit their interests, studying a core of basic science units to which other science units, and if desired, non-science units, can be added.

Study Mode

Three years full-time or six years part-time.

Location

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

Admission

Assumed Knowledge: At least two of Biology, Chemistry, Mathematics and Physics.

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

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

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

directly to Western Sydney University should also use the information provided on the UAC website.

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

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

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

Course Structure

Qualification for this award requires the successful completion of 240 credit points with no less than 60 credit points at Level 3, made up as follows

- At least 160 credit points made up of science units, following the rules below
- A further 80 credit points of electives (which can be science units, or units from another discipline area such as Arts, Law or Business)

Core Components

Completion of the science units must comply with the following rules

Campus and semester(s) of offer for units are found under the active link for individual units

Level 1

Six Level 1 science foundation units must be completed, including

300811.1 Scientific Literacy

At least one mathematics or statistics foundation unit from the unit set below

300830.2 Analysis of Change
200263.5 Biometry
200025.2 Discrete Mathematics
300672.2 Mathematics 1A
300673.2 Mathematics 1B
300831.3 Quantitative Thinking

At least four other science foundation units from unit set below which must come from a further two science disciplines

Chemistry

300808.2 Introductory Chemistry

Or

300800.2 Essential Chemistry 1
300803.1 Essential Chemistry 2

Biology

300802.2 Biodiversity
300816.1 Cell Biology
300818.1 Introduction to Physiology

Computer Science

301031.2	Computer Algebra
300134.2	Introduction to Information Technology
300580.3	Programming Fundamentals

Physics

300828.1	Physics 1
300829.1	Physics 2

Level 2 and 3

The completion of at least one of the following Majors

M3090.1	Biochemistry and Molecular Biology
M3047.1	Chemistry
M3078.1	Climate Change
M3079.1	Conservation Biology
M4011.1	Environmental Consulting
M3100.1	Forensic Chemistry
M3080.1	General Biology
M3081.1	Marine Biology
M3054.1	Mathematics
M3099.1	Microbiology
M3089.1	Nutrition and Physiology
M3082.1	Zoology

The completion of at least ten Level 2 or 3 science units from the senior unit sets below with at least four at Level 3 (Units within your major count towards this requirement)

At least one of the Level 3 units must be a Capstone unit

Senior unit set Level 2

200028.3	Advanced Calculus
300832.1	Analytical Chemistry
300836.1	Botany
300930.1	Classical Physics and Advanced Technologies
300837.1	Climate Change Science
300838.1	Comparative Physiology
200030.4	Differential Equations
300839.1	Ecology
300843.1	Forensic and Environmental Analysis
300936.1	Functional Proteins and Genes
300845.1	Genetics
300847.2	Immunology
300899.1	Inorganic Chemistry
300931.1	Integrated Science
301033.1	Introduction to Data Science
200027.3	Linear Algebra
301032.1	Making Sense of Data
300959.1	Mangamai'bangawarra: Indigenous Science
300848.1	Metabolism
300833.1	Microbiology 1
300896.1	Microbiology 2
300817.1	Molecular Biology
300876.1	Organic Chemistry
300849.2	Physical Chemistry
300865.1	Plant Physiology
300980.1	Principles of Evolution
300979.1	Principles of Zoology

Note: Students may only choose one of 300832 Analytical Chemistry or 300843 Forensic and Environmental Analysis

Senior unit set Level 3

300907.1	Advanced Inorganic Chemistry
300926.1	Advanced Physical Chemistry
300857.1	Environmental Geochemistry
300912.1	Molecular Pharmacokinetics
300919.1	Occupational Health and Safety

Please note unit 300857 replaced by 301212 Science of the Anthropocene from 2019.

200193.2	Abstract Algebra
300925.1	Advanced Analytical Chemistry
300850.1	Advanced Cell Biology
300905.1	Advanced Immunology
300906.1	Advanced Organic Chemistry
200023.3	Analysis
300856.1	Ecosystem Carbon Accounting
301035.1	Environmental Informatics
300820.1	Genes, Genomics and Human Health
300918.3	Invertebrate Biology
200022.3	Mathematical Modelling
300826.1	Medical Microbiology
301034.1	Predictive Modelling
300923.1	Quantum Physics
301212.1	Science of the Anthropocene
300819.1	Topics in Physiology
300861.1	Vertebrate Biodiversity

Capstone units

300851.1	Advanced Physiology
300866.1	Analytical Microbiology
300909.1	Biological Adaptation to Climate Change
300855.1	Conservation Biology
300883.1	Laboratory Quality Management
300978.1	Marine and Aquatic Ecology
300927.2	Molecular Medicine
200045.3	Quantitative Project
300924.1	Science Research Project

Recommended Sequence**Elective Unit**

The following unit, 301161 Work Integrated Learning in Science, is a level 2 elective unit that gives students the opportunity to undertake a short work placement within a professional organisation. For further details please follow the link

301161.1	Work Integrated Learning in Science
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Full-time Start-year Entry**Year 1****Autumn session**

300811.1	Scientific Literacy
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Foundation science core

Foundation science core

And one elective

Spring session

Foundation science core

Foundation science core

Foundation science core

And one elective

Year 2

Autumn session

Senior science core
Senior science core
Senior science core
And one elective

Spring session

Senior science core
Senior science core
Senior science core
And one elective

Year 3

Autumn session

Senior science core
Senior science core
Level 3 elective
And one elective

Spring session

Senior science core
Senior science core
Level 3 elective
And one elective

Full-time Mid-year Entry

Year 1

Spring session

300811.1 Scientific Literacy

Foundation science core
Foundation science core
And one elective

Autumn session

Foundation science core
Foundation science core
Foundation science core
And one elective

Year 2

Spring session

Any remaining Foundation core unit, or a Senior science core
Senior science core
Senior science core
And one elective

Autumn session

Senior science core
Senior science core
Senior science core

And one elective, or a Senior science core unit

Year 3

Spring session

Senior science core
Senior science core
Level 3 elective
And one elective

Autumn session

Senior science core
Senior science core
Level 3 elective
And one elective

Major and Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved major (80 credit points) or sub-major (40 credit points).

Western Sydney University offers majors and sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Elective Units

Elective units available University wide

301218.1 Global Citizenship and Engagement

Bachelor of Science (Advanced Science)

3562.9

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

If you enjoy being constantly challenged and extended by your studies and are thinking about a career involving scientific research, then the Western Sydney University Advanced Science degree is for you! This degree equips students with both specialised knowledge and enhanced inquiry skills in any one of a range of scientific disciplines. The Advanced Science degree is specifically designed to provide initial training for a range of scientific careers involving research and inquiry. You will be partnered with experienced academic researchers and their research teams and participate in the University's exciting research activities to facilitate your transition to a Masters Research degree or directly into a range of exciting career opportunities available to high-achieving science graduates. Further studies can be pursued (Masters Research or PhD degree) leading to a research or academic career.

Study Mode

Three years full-time.

Location

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

Accreditation

The Bachelor of Science (Advanced Science) is accredited by the Royal Australian Chemical Institute (RACI) for normal entry of a graduate to the Chartered Chemist qualification.

Admission

Minimum ATAR of 90. Students must maintain a Grade Point Average (GPA) of 5.0 or above to continue their enrolment in the course. If this GPA is not maintained they will be automatically transferred into the standard program after one warning (one semester of further study). Students in other Western Sydney University science courses who achieve a GPA of 5.0 or greater at the end of their first year of study may be admitted into the Advanced Science program by invitation if sufficient places are available.

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

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

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

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

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

Course Structure

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequences below.

Students in the Bachelor of Science (Advanced Science) must follow one of the study programs listed below.

Note: Not all key programs are available on all campuses, please check availability

KT3128.1	Biological Science
KT3129.1	Chemistry
KT3148.1	Environmental Science
KT3149.1	Forensic Science

KP3027.1	General Program
KT3150.1	Mathematical Sciences
KT3132.1	Nutrition and Food Science
KT3134.1	Zoology

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Students in Advanced courses may use elective units toward obtaining an additional approved sub-major in Applied Leadership or Critical Thinking.

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Elective Units

The following unit, 301161 Work Integrated Learning in Science, is a level 2 elective unit that gives students the opportunity to undertake a short work placement within a professional organisation. For further details please follow the link

[301161.1](#) Work Integrated Learning in Science

Bachelor of Science (Biological Sciences)

3677.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2014 or later

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

The biological sciences are diverse, fascinating, rapidly changing, and essential to our understanding of living systems at scales ranging from the molecular to the global. They play a vital role in our understanding of the environment, as well as animals, plants and micro-organisms, and are essential to a wide range of contemporary industries. A Bachelor of Science (Biological Science) offers a solid foundation in the basic sciences, including biology, microbiology, biochemistry and environmental science. You will be equipped to enter government, industry or research-based employment in this area (e.g. Biotechnology companies, pathology, quality assurance, university and hospital laboratories, scientific sales and government agencies). You may also choose to maximise the biological science content of your degree or combine biological sciences with studies in another discipline.

Study Mode

Three years full-time.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal

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

Admission

Assumed Knowledge: At least two units of Biology, Chemistry, Mathematics and Physics.

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

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

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

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

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

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

Course Structure

Recommended Sequence

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequences below.

Note: At least 60 credit points must be at Level 3 or above.

Year 1

Autumn session

300802.2 Biodiversity
300811.1 Scientific Literacy

Choose one of

300800.2 Essential Chemistry 1
300808.2 Introductory Chemistry

Choose one of

200263.5 Biometry
300831.3 Quantitative Thinking

Spring session

300816.1 Cell Biology
300803.1 Essential Chemistry 2
300818.1 Introduction to Physiology

And one elective

Year 2

Autumn session

300936.1 Functional Proteins and Genes
300833.1 Microbiology 1
300845.1 Genetics

And one elective

Spring session

300817.1 Molecular Biology
300839.1 Ecology

Choose one of

300832.1 Analytical Chemistry
200033.5 Applied Statistics
300838.1 Comparative Physiology
200030.4 Differential Equations
300847.2 Immunology
300959.1 Mangamai'bangawarra: Indigenous Science
300848.1 Metabolism
300896.1 Microbiology 2
300876.1 Organic Chemistry
300979.1 Principles of Zoology

And one elective

Year 3

Autumn session

Choose at least one capstone unit in your final year of study. Capstone units are listed separately below.

Hawkesbury Campus

Choose at least two of

300850.1 Advanced Cell Biology
300856.1 Ecosystem Carbon Accounting
300820.1 Genes, Genomics and Human Health
300919.1 Occupational Health and Safety

Capstone units

300851.1 Advanced Physiology
300866.1 Analytical Microbiology
300929.1 Aquatic Ecology

And two electives (one elective must be a Level 3 unit)

Parramatta Campus

Choose at least two of

300850.1 Advanced Cell Biology
300820.1 Genes, Genomics and Human Health

Capstone unit

300851.1 Advanced Physiology

And two electives (one elective must be a Level 3 unit)

Campbelltown Campus

Choose at least two of

- 300850.1** Advanced Cell Biology
- 300820.1** Genes, Genomics and Human Health
- 300819.1** Topics in Physiology

Capstone unit

- 300851.1** Advanced Physiology

And two electives (one elective must be a Level 3 unit)

Spring session**Hawkesbury Campus**

Choose at least two of

- 300905.1** Advanced Immunology
- 300918.3** Invertebrate Biology
- 300826.1** Medical Microbiology
- 300861.1** Vertebrate Biodiversity

Capstone units

- 300909.1** Biological Adaptation to Climate Change
- 300855.1** Conservation Biology
- 300883.1** Laboratory Quality Management
- 300927.2** Molecular Medicine
- 300924.1** Science Research Project

And two electives (one elective must be a Level 3 unit)

Parramatta Campus

Choose at least two of

- 300905.1** Advanced Immunology
- 300826.1** Medical Microbiology

Capstone units

- 300855.1** Conservation Biology
- 300924.1** Science Research Project

And two electives (one elective must be a Level 3 unit)

Campbelltown Campus

Choose at least two of

- 300905.1** Advanced Immunology
- 300826.1** Medical Microbiology

Capstone units

- 300927.2** Molecular Medicine
- 300924.1** Science Research Project

And two electives (one elective must be a Level 3 unit)

Major and Sub-major elective spaces

Elective units may be used toward obtaining an additional approved Major (80 credit points) or Sub-major (40 credit points) including the Majors and Sub-majors listed below.

Majors

- M3090.1** Biochemistry and Molecular Biology
- M3079.1** Conservation Biology
- M4011.1** Environmental Consulting
- M3080.1** General Biology

- M3081.1** Marine Biology
- M3099.1** Microbiology
- M3082.1** Zoology

Sub-majors

- SM3062.1** Aquatic Environments
- SM3041.1** Biochemistry and Molecular Biology
- SM3048.1** Climate Change
- SM3042.1** Conservation Biology
- SM3049.1** Immunology and Cell Biology
- SM3044.1** Microbiology
- SM3063.1** Zoology

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Students who maintain a GPA of 5 or higher may use elective units toward obtaining an additional approved Sub-major in Critical Thinking.

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Elective Units

The following unit, 301161 Work Integrated Learning in Science, is a level 2 elective unit that gives students the opportunity to undertake a short work placement within a professional organisation. For further details please follow the link

- 301161.1** Work Integrated Learning in Science

Bachelor of Science (Chemistry)**3676.4**

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

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

A Bachelor of Science (Chemistry) will prepare you to take part in a process of inquiry, by both contributing to it and by using scientific knowledge to solve current problems. The Chemistry program provides a strong background in the key topic areas of contemporary chemistry, including aspects of chemical theory in analytical, inorganic, organic and physical chemistry, with a strong emphasis on practical laboratory skills, and applications in contemporary research, industry and the environment. A research project is available to students in the final year of the degree preparing you for a professional career in a wide range of chemistry based industries. A double major or sub-major with biochemistry and molecular biology or microbiology will prepare you for a career in the pharmaceutical, health or food industries. Alternatively, graduates who elect studies

in the physical sciences, mathematics or business are well placed for careers in the manufacturing industry.

Study Mode

Three years full-time or six years part-time.

Location

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

Accreditation

The Bachelor of Science (Chemistry) is accredited by The Royal Australian Chemical Institute (RACI).

Admission

Assumed Knowledge: At least two units of Biology, Chemistry, Mathematics and Physics.

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

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

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

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

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

Course Structure

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequences below.

Note: At least 60 credit points must be at Level 3 or above, including one elective unit

Recommended Sequence

Year 1

Autumn session

300828.1	Physics 1
300811.1	Scientific Literacy

Choose one of

300800.2	Essential Chemistry 1
300808.2	Introductory Chemistry

Choose one of

300802.2	Biodiversity
200263.5	Biometry
200025.2	Discrete Mathematics
300134.2	Introduction to Information Technology
300580.3	Programming Fundamentals
300831.3	Quantitative Thinking

Spring session

300803.1	Essential Chemistry 2
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Choose one of

300830.2	Analysis of Change
300672.2	Mathematics 1A

Choose one of

300816.1	Cell Biology
200263.5	Biometry
300818.1	Introduction to Physiology
300673.2	Mathematics 1B
300829.1	Physics 2
300580.3	Programming Fundamentals

And one elective

Year 2

Autumn session

300832.1	Analytical Chemistry
300876.1	Organic Chemistry

Choose at least one of

200028.3	Advanced Calculus
300936.1	Functional Proteins and Genes
300845.1	Genetics
300833.1	Microbiology 1
300931.1	Integrated Science
301033.1	Introduction to Data Science
200027.3	Linear Algebra
300865.1	Plant Physiology

And one elective

Spring session

300899.1	Inorganic Chemistry
300849.2	Physical Chemistry

Choose at least one of

300838.1	Comparative Physiology
200030.4	Differential Equations
300839.1	Ecology
300847.2	Immunology
301032.1	Making Sense of Data
300959.1	Mangamai'bangawarra: Indigenous Science
300848.1	Metabolism
300896.1	Microbiology 2
300817.1	Molecular Biology

And one elective

Year 3**Autumn session****300907.1** Advanced Inorganic Chemistry

Choose one of

300926.1 Advanced Physical Chemistry**300912.1** Molecular Pharmacokinetics

And two electives (one elective must be a Level 3 unit)

Spring session**300925.1** Advanced Analytical Chemistry**300906.1** Advanced Organic Chemistry

Capstone unit: choose one of

300883.1 Laboratory Quality Management**300924.1** Science Research Project

And one elective

Major and Sub-major Elective Spaces**Majors**

Elective units may be used toward obtaining an additional approved major (80 credit points) or sub-major (40 credit points) including the majors and sub-majors listed below.

M3090.1 Biochemistry and Molecular Biology**M3080.1** General Biology**M3099.1** Microbiology**Sub-majors****SM3041.1** Biochemistry and Molecular Biology**SM3049.1** Immunology and Cell Biology**SM3050.1** Physics**Sub-major Elective Spaces**

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Students who maintain a GPA of 5 or higher may use elective units toward obtaining an additional approved sub-major in Critical Thinking.

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Elective Units

The following unit, 301161 Work Integrated Learning in Science, is a level 2 elective unit that gives students the opportunity to undertake a short work placement within a professional organisation. For further details please follow the link

301161.1 Work Integrated Learning in Science**Bachelor of Science (Environmental Science)****3680.3**

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

Solving the world's environmental problems will require professionals who are trained in the sciences underlying these issues and who understand the wider human and social contexts of the challenges faced. A Bachelor of Science (Environmental Science) will open up a wide range of career opportunities for those with environmental, conservation and ecological interests. A solid grounding in the underlying science is essential for people intending to work in this field, who will need to integrate knowledge across a range of disciplines, to devise solutions spanning the scientific and social issues involved. Some of the key areas in this degree include conservation biology, environmental analysis, regulation and policy, environmental chemistry, climate change science, microbiology, spatial data analysis, environmental geochemistry, biodiversity and adaptation, and ecology including marine and aquatic ecology. There are a range of majors (climate change and environmental management) and sub-majors (sustainability) offered in Science that can add diversity and/or focus to your degree. There are also a range of sub-majors from other disciplines such as the arts, business, humanities and social sciences to choose from, although these may require cross campus study and are subject to availability and timetabling.

Study Mode

Three years full-time or six years part-time.

Location

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

Admission

Assumed Knowledge: Any two units of English and any two units of Science (Biology or Chemistry recommended).

Recommended Studies: Geography

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

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

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

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

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

Course Structure

Recommended Sequence

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequences below.

Note: At least 60 credit points must be at Level 3 or above, including one elective unit

Start-year Intake

Year 1

Autumn session

- 300802.2** Biodiversity
- 300811.1** Scientific Literacy
- 300824.1** Management of Aquatic Environments

Choose one of

- 300808.2** Introductory Chemistry

From Spring 2017, students must choose 300808 Introductory Chemistry as 300800 Essential Chemistry 1 is no longer on offer.

- 300800.2** Essential Chemistry 1

Spring session

- 300816.1** Cell Biology
- 300803.1** Essential Chemistry 2
- 300810.1** Resource Sustainability

Choose one of

- 101646.2** Analysis of Spatial Data
- 300812.1** Understanding Landscape

Year 2

Autumn session

- 300837.1** Climate Change Science

Choose one of

- 300843.1** Forensic and Environmental Analysis
- 300833.1** Microbiology 1

Choose one of

- 200263.5** Biometry
- 300831.3** Quantitative Thinking

And one elective

Spring session

- 300839.1** Ecology
- 300841.1** Environmental Regulation and Policy

Choose one of

- 300836.1** Botany
- 300861.1** Vertebrate Biodiversity

And one elective

Year 3

Autumn session

- 300857.1** Environmental Geochemistry
- 300978.1** Marine and Aquatic Ecology

Please note unit 300857 replaced by 301212 Science of the Anthropocene from 2019.

- 300856.1** Ecosystem Carbon Accounting
- 301212.1** Science of the Anthropocene

And one elective

Spring session

- 300855.1** Conservation Biology
- 300918.3** Invertebrate Biology
- 300909.1** Biological Adaptation to Climate Change

(Capstone unit)

And one elective

Mid-year Intake

Year 1

Spring session

- 300816.1** Cell Biology
- 300803.1** Essential Chemistry 2
- 300810.1** Resource Sustainability

Choose one of

- 101646.2** Analysis of Spatial Data
- 300812.1** Understanding Landscape

Autumn session

- 300802.2** Biodiversity
- 300808.2** Introductory Chemistry
- 300824.1** Management of Aquatic Environments
- 300811.1** Scientific Literacy

Year 2

Spring session

- 300839.1** Ecology
- 300841.1** Environmental Regulation and Policy

Choose one of

- 300836.1** Botany
- 300861.1** Vertebrate Biodiversity

And one elective

Autumn session

300837.1 Climate Change Science

Choose one of

300843.1 Forensic and Environmental Analysis
300833.1 Microbiology 1

Choose one of

200263.5 Biometry
300831.3 Quantitative Thinking

And one elective

Year 3**Spring session**

300909.1 Biological Adaptation to Climate Change
300855.1 Conservation Biology
300918.3 Invertebrate Biology

(Capstone unit)

And one elective

Autumn session

300857.1 Environmental Geochemistry
300978.1 Marine and Aquatic Ecology

Please note unit 300857 replaced by 301212 Science of the Anthropocene from 2019.

300856.1 Ecosystem Carbon Accounting
301212.1 Science of the Anthropocene

And one elective

Major and Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved major (80 credit points) or sub-major (40 credit points) including the majors and sub-majors listed below.

Majors

M3078.1 Climate Change
M3079.1 Conservation Biology
M3084.1 Environmental Consulting
M3080.1 General Biology
M3081.1 Marine Biology
M3082.1 Zoology

Sub-majors

SM3062.1 Aquatic Environments
SM3048.1 Climate Change
SM3042.1 Conservation Biology
SM3079.1 Environmental Management
SM3044.1 Microbiology
SM3046.1 Sustainable Environmental Management
SM3063.1 Zoology

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Students who maintain a GPA of 5 or higher may use elective units toward obtaining an additional approved sub-major in Critical Thinking.

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Elective Units

The following unit, 301161 Work Integrated Learning in Science, is a level 2 elective unit that gives students the opportunity to undertake a short work placement within a professional organisation. For further details please follow the link

301161.1 Work Integrated Learning in Science

Bachelor of Science (Forensic Science)**3589.8**

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

This is a three-year program that produces scientists who have a good background in the biological and chemical sciences. These are coupled with specialised expertise in forensic science including methods of forensic analysis, crime scene investigation, forensic photography, forensic investigation, crime and criminal justice and complex cases. Students may opt to further specialise in forensic biology, chemistry or microbiology by selecting additional electives or studies in a related or unrelated discipline. Career opportunities include forensic scientists, crime scene investigators, private investigators and consultants, police officers, drug analysts, researchers and academics, and specialised forensic science practitioners. The main employers of forensic scientists are State and Federal police services, State and Commonwealth Government Health Departments and analytical chemistry laboratories. Graduates will be versatile with a wide skills base with (depending on their choice of electives) potential for employment in analytical chemistry and microbiology, quality control and assurance, biochemistry and molecular biology, scientific research, education and the chemical industry.

Study Mode

Three years full-time or six years part-time.

Location

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

Admission

Assumed Knowledge: Students should have successfully completed at least two of the following units: Biology, Chemistry or Mathematics.

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

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

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

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

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

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

Course Structure

Recommended Sequence

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequence below.

Note: At least 60 credit points must be at Level 3 or above (one elective must be at least a Level 3 unit)

Year 1

Autumn session

300802.2	Biodiversity
300811.1	Scientific Literacy
300806.1	Forensic Science

Choose one of

300800.2	Essential Chemistry 1
300808.2	Introductory Chemistry

Spring session

300816.1	Cell Biology
300803.1	Essential Chemistry 2
300874.2	Digital Forensic Photography
200263.5	Biometry

Year 2

Autumn session

300843.1	Forensic and Environmental Analysis
300845.1	Genetics
301126.1	Concepts in Human Anatomy

And one elective

Spring session

300873.2	Crime Scene Investigation
300817.1	Molecular Biology

401171.1 Imaging Science

And one elective

Year 3

Autumn session

300981.1	Environmental Forensic Investigations
300868.1	Forensic Chemistry
301120.2	Forensic Anthropology

And one elective

Spring session

300911.1	Complex Forensic Studies
401170.2	Forensic Biology
300883.1	Laboratory Quality Management

And one elective

Major

M4012.1 Crime Scene Investigation

Sub-majors

SM3041.1	Biochemistry and Molecular Biology
SM3049.1	Immunology and Cell Biology
SM3044.1	Microbiology

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Western Sydney University offers Sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Elective Units

The following unit, 301161 Work Integrated Learning in Science, is a level 2 elective unit that gives students the opportunity to undertake a short work placement within a professional organisation. For further details please follow the link

301161.1 Work Integrated Learning in Science

Bachelor of Science (Mathematical Science)

3679.3

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

A Bachelor of Science (Mathematical Science) provides you with a strong background in key analytical techniques that have contemporary applications such as the treatment and interpretation of data and the modelling of real-world problems such as global warming. You will develop skills that allow you to model and solve real world problems using mathematical techniques and have the opportunity to

specialise in mathematics, statistics or a combination of both. This will provide you with a wide range of career options in commercial and government institutions, which require highly-skilled problem-solvers. There are also a range of majors (e.g. Biology, chemistry) and sub-majors offered in Science that can add diversity and/or focus to your degree. There are also a range of sub-majors from other disciplines such as the arts, business, humanities and social sciences to choose from, although these may require cross campus study and are subject to availability and timetabling.

Study Mode

Three years full-time.

Location

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

Admission

Recommended Studies: Mathematics.

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

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

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

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

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

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

Course Structure

Recommended Sequence

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequence below.

Year 1

Autumn session

300672.2	Mathematics 1A
300811.1	Scientific Literacy
200025.2	Discrete Mathematics

Choose one of

300802.2	Biodiversity
300800.2	Essential Chemistry 1
300808.2	Introductory Chemistry
300828.1	Physics 1

Spring session

301031.2	Computer Algebra
300673.2	Mathematics 1B
200263.5	Biometry

Choose one of the following science foundation core units

300816.1	Cell Biology
300803.1	Essential Chemistry 2
300829.1	Physics 2

Year 2

Autumn session

200027.3	Linear Algebra
200028.3	Advanced Calculus
300580.3	Programming Fundamentals

And one elective

Spring session

200030.4	Differential Equations
301033.1	Introduction to Data Science
301032.1	Making Sense of Data

And one elective

Year 3

Autumn session

200193.2	Abstract Algebra
301034.1	Predictive Modelling
200023.3	Analysis

And one elective

Spring session

301035.1	Environmental Informatics
200022.3	Mathematical Modelling
200045.3	Quantitative Project

And one elective

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Students who maintain a GPA of 5 or higher may use elective units toward obtaining an additional approved sub-major in Critical Thinking.

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Bachelor of Science (Nutrition and Food Sciences)

3678.2

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

There is more to healthy eating than you realise. This program will help you understand nutrition and the science behind food. A Bachelor of Science (Nutrition and Food Science) will prepare you for the future by developing the skills and knowledge to solve future challenges in nutrition and health, food quality and security. Students will develop a strong foundation in the biological and chemical sciences to needed underpin their studies, with majors in 'Human Nutrition' or 'Food Science and Technology' that will allow further specialisation. Career opportunities include community nutrition and health, health promotion, new food product development, quality assurance, and food technology secondary teaching. The program has strong industry and community links, well-equipped facilities including food processing pilot plant and modern kitchen facilities.

A major in Human Nutrition (M3059) investigates healthy eating as a vital part of good health. The major covers nutrition, food and health, with specialised studies in community nutrition, public health nutrition, human physiology, health promotion and food studies. The major prepares students for careers in community nutrition, health promotion and education, or work in a range of food and nutrition related businesses, including new product development of healthy foods. Students seeking to do postgraduate studies in Nutrition and Dietetics are advised to select a double major of Nutrition and Physiology (M3058) with the Human Nutrition major and complete further studies in metabolism and advanced physiology.

A major in Food Science and Technology (M3057) explores the science behind food, its preparation and manufacture. The major covers specialised topics in food processing, food safety, quality assurance, new product development, postharvest, packaging, microbiological and chemical analysis. The major prepares students for a wide range of careers in the food and beverage related industries, including food product development, quality assurance, management of the fresh food supply, food regulations, research and development.

Students seeking to be secondary Food Technology teachers are advised to select a sub-major in Education Studies (SM1100) in preparation for Master of Teaching in their fourth year of study. This program will satisfy the requirements of the NSW Institute of Teachers for first teaching areas of 'Food Technology' and 'Biology', with further teaching areas possible in 'chemistry', 'physics', or 'design and technology' depending on the electives selected.

Study Mode

Three years full-time.

Location

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

Admission

Assumed Knowledge: At least two of the following subjects - 2 unit Biology, 2 unit Chemistry or 2 unit Mathematics.

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

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

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

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

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

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

Course Structure

Recommended Sequence

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequences below.

Note 1: At least 60 credit points must be at Level 3 or above. Some students may need to take one elective as a Level 3 unit.

Note 2: Students must also satisfactorily complete a minimum of ten weeks Approved Industrial Experience, the time can be accrued throughout the duration of your course. The work experience will be recognised by achieving Satisfactory grade in the final semester core unit 300655 - Approved Industrial Experience.

Note 3: Students completing the SM1100 - Education Studies Sub-major will need to complete two units from the sub major instead of two electives from the recommended sequence below.

SM1100.1 Education Studies

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

- 300802.2 Biodiversity
 300811.1 Scientific Literacy
 300831.3 Quantitative Thinking

Choose one of

- 300800.2 Essential Chemistry 1
 300808.2 Introductory Chemistry

Spring session

- 300816.1 Cell Biology
 300803.1 Essential Chemistry 2
 300805.1 Food Science 1

And one elective

Year 2**Autumn session**

- 300936.1 Functional Proteins and Genes
 300833.1 Microbiology 1
 300842.2 Food Science 2
 300933.1 Nutrition and Health 1

Spring session

- 300879.1 Experimental Foods

Human Nutrition Major

- 300934.1 Nutrition and Health 2
 300818.1 Introduction to Physiology

And one elective

Food Science and Technology Major

- 300859.1 Food Safety
 300869.1 Postharvest

And one elective

Year 3**Autumn session**

- 300922.2 Quality Assurance and Food Analysis

Human Nutrition Major

- 300928.1 Consumer Issues in Nutrition
 300871.1 Culinary Science

And one elective

Food Science and Technology major

- 300871.1 Culinary Science

Choose one of

- 300866.1 Analytical Microbiology
 300843.1 Forensic and Environmental Analysis

Or Education Studies sub-major unit

And one elective

Spring session

- 300915.1 Food Product Development

All students must satisfactorily complete the unit 300655 - Approved Industrial Experience (10 weeks), comprising a minimum of ten weeks Approved Industrial Experience.

- 300655.2 Approved Industrial Experience

Human Nutrition Major

- 300908.1 Applied Nutrition
 300917.1 Global Nutrition, Food and Community

And one elective

Food Science and Technology Major

- 300904.1 Advanced Food Science and Technology

Choose one of

- 300883.1 Laboratory Quality Management

Or Education sub-major unit

And one elective

Students seeking to be secondary Food Technology teachers are also able to select a sub-major in Education Studies (SM1100) in preparation for Master of Teaching in the fourth year of study. This program will satisfy the requirements of the NSW Institute of Teachers for first teaching areas of 'Food Technology' and 'Biology', with further teaching areas possible in 'chemistry', 'physics', or 'design and technology' depending on the electives selected.

- SM1100.1 Education Studies

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

- 300816.1 Cell Biology
 300811.1 Scientific Literacy
 300831.3 Quantitative Thinking
 300805.1 Food Science 1

Autumn session

- 300802.2 Biodiversity
 300842.2 Food Science 2
 300933.1 Nutrition and Health 1

Choose one of

- 300800.2 Essential Chemistry 1
 300808.2 Introductory Chemistry

Year 2**Spring session**

- 300879.1** Experimental Foods
300803.1 Essential Chemistry 2

Human Nutrition Major

- 300934.1** Nutrition and Health 2
300818.1 Introduction to Physiology

Food Science and Technology Major

- 300859.1** Food Safety
300869.1 Postharvest

Autumn session

- 300936.1** Functional Proteins and Genes
300833.1 Microbiology 1
300922.2 Quality Assurance and Food Analysis

And one elective

Year 3**Spring session**

- 300915.1** Food Product Development

Human Nutrition Major

- 300908.1** Applied Nutrition
300917.1 Global Nutrition, Food and Community

And one elective

Food Science and Technology major

- 300904.1** Advanced Food Science and Technology
300883.1 Laboratory Quality Management

Or Education sub-major unit

And one elective

Autumn session

- 300871.1** Culinary Science

Students must also satisfactorily complete a minimum of 10 weeks Approved Industrial Experience, the time can be accrued throughout the duration of your course. The work experience will be recognised by achieving Satisfactory grade in the final semester core unit 300655 - Approved Industrial Experience.

- 300655.2** Approved Industrial Experience

Human Nutrition Major

- 300928.1** Consumer Issues in Nutrition

Food Science and Technology Major

Choose one of

- 300866.1** Analytical Microbiology
300843.1 Forensic and Environmental Analysis

Or Education Studies sub-major unit

And two electives

Students seeking to be secondary Food Technology teachers are also able to select a Sub-major in Education Studies (SM1100) in preparation for Master of Teaching in the fourth year of study. This program will satisfy the requirements of the NSW Institute of Teachers for first teaching areas of 'Food Technology' and 'Biology', with further teaching areas possible in 'chemistry', 'physics', or 'design and technology' depending on the electives selected.

- SM1100.1** Education Studies

Major and Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved major (80 credit points) or sub-major (40 credit points) including the majors and sub-majors listed below.

Majors

- M3090.1** Biochemistry and Molecular Biology
M3057.1 Food Science & Technology
M3052.1 General Biology
M3059.1 Human Nutrition
M3099.1 Microbiology
M3089.1 Nutrition and Physiology

Sub-majors

- SM3041.1** Biochemistry and Molecular Biology
SM1067.1 Education Studies
SM3038.1 Food Technology - Secondary Teaching
SM3049.1 Immunology and Cell Biology
SM3044.1 Microbiology

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Students who maintain a GPA of 5 or higher may use elective units toward obtaining an additional approved sub-major in Critical Thinking.

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Bachelor of Science (Zoology)**3681.2**

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2014 onwards.

A Bachelor of Science (Zoology) recognises the increased demand for scientific knowledge of how to conserve, protect and care for animals, including native wildlife, and companion and production animals. It will enable you to develop an in-depth scientific understanding of how animals function and interact with their environment; from their ecology and evolution; to physiology and biochemistry

of tissues and major organs systems, as well as the structure and function of biomolecules and cells. The key learning and research areas embodied in this degree are ecology, evolution, physiology, growth, reproduction, genetics, and conservation biology. On-campus animal facilities include those for reptiles, small marsupials, small rodents, horses, sheep and cattle, as well as over 1,000ha of native, rural and aquatic habitats.

Study Mode

Three years full-time.

Location

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

Admission

Assumed Knowledge: Any two units of English and any two units of Science.

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

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

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

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

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

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

Course Structure

Recommended Sequence

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequences below.

Year 1

Autumn session

300802.2	Biodiversity
300811.1	Scientific Literacy
300813.1	Wildlife Studies

Choose one of

300800.2	Essential Chemistry 1
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300808.2	Introductory Chemistry
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Spring session

300816.1	Cell Biology
300803.1	Essential Chemistry 2
300801.1	Animal Science

Choose at least one of

200263.5	Biometry
300831.3	Quantitative Thinking

Year 2

Autumn session

300834.1	Animal Health and Welfare
300936.1	Functional Proteins and Genes
300980.1	Principles of Evolution

And one elective

Spring session

300979.1	Principles of Zoology
300838.1	Comparative Physiology
300839.1	Ecology

And one elective

Year 3

Autumn session

300878.1	Animal Behaviour
300978.1	Marine and Aquatic Ecology

And two electives

Spring session

300855.1	Conservation Biology
300918.3	Invertebrate Biology
300861.1	Vertebrate Biodiversity

Choose one of the following capstone units

300909.1	Biological Adaptation to Climate Change
300924.1	Science Research Project

Major and Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved major (80 credit points) or sub-major (40 credit points) including the majors and sub-majors listed below.

Majors

M3090.1	Biochemistry and Molecular Biology
M3078.1	Climate Change
M3079.1	Conservation Biology
M3080.1	General Biology
M4011.1	Environmental Consulting
M3081.1	Marine Biology

Sub-majors

SM3062.1	Aquatic Environments
SM3041.1	Biochemistry and Molecular Biology
SM3048.1	Climate Change

SM3042.1	Conservation Biology
SM3049.1	Immunology and Cell Biology
SM3044.1	Microbiology

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Elective Units

The following unit, 301161 Work Integrated Learning in Science, is a level 2 elective unit that gives students the opportunity to undertake a short work placement within a professional organisation. For further details please follow the link

[301161.1](#) Work Integrated Learning in Science

Bachelor of Science (Zoology)/Bachelor of Natural Science (Animal Science)

3732.1

The Bachelor of Science (Zoology)/Bachelor of Natural Science (Animal Science) recognises the increased demand for scientific knowledge about how to conserve and protect wildlife, as well as develop deeper understanding of the interactions between people and animals. This arises from our ever-increasing reliance on animals for companionship and food production. The combined Zoology and Animal Science Degree at Western Sydney University provides you with hands-on experience and a range of skills including specialist knowledge of wildlife and domesticated animals, practical skills, the ability to think critically and solve problems. Career opportunities exist in a range of areas including zoological research, environmental management and consulting, wildlife biology, government quarantine, agriculture, museums, and universities, as well as, international opportunities. On-campus animal facilities include those for reptiles, small marsupials, small rodents, horses, sheep and cattle, as well as over 1,000ha of native, rural and aquatic habitats. Fourth year options allow you to major in Conservation Biology, Marine Biology, Environmental Consulting, as well as specialise in companion/captive animal senior keeper/trainer Certificate and Diploma training packages from WSI TAFE

Study Mode

Four years full-time or eight years part-time.

Location

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

Admission

Assumed Knowledge: Any two units of English and any two units of Science.

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

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

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

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

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

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

Course Structure

Recommended Sequence

Qualification for this award requires the successful completion of 320 credit points which include the units listed in the recommended sequence below.

NOTE: Students are required to complete 120 credit points of Level 3 units and above. To this end, At least two of the elective spots should be used to complete Level 3 units.

Year 1

Autumn session

300802.2	Biodiversity
300811.1	Scientific Literacy
300813.1	Wildlife Studies

Choose one of

300800.2	Essential Chemistry 1
300808.2	Introductory Chemistry

Spring session

300816.1	Cell Biology
300803.1	Essential Chemistry 2
300801.1	Animal Science

Choose one of

200263.5	Biometry
300831.3	Quantitative Thinking

Year 2**Autumn session**

300834.1	Animal Health and Welfare
300936.1	Functional Proteins and Genes
300980.1	Principles of Evolution
300807.1	Human Animal Interactions

Spring session

300979.1	Principles of Zoology
300838.1	Comparative Physiology
300839.1	Ecology
300932.1	Natural Science Research Methods

Year 3**Autumn session**

300878.1	Animal Behaviour
300978.1	Marine and Aquatic Ecology
300931.1	Integrated Science
300853.1	Animal Nutrition and Feeding

Spring session

300855.1	Conservation Biology
300918.3	Invertebrate Biology
300861.1	Vertebrate Biodiversity
300909.1	Biological Adaptation to Climate Change

Year 4**Autumn session**

300854.1	Animal Production
300913.1	Field Project 1

And two electives

Spring session

300835.1	Animal Reproduction
300914.1	Field Project 2

And two electives

Major and Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved major (80 credit points) or sub-major (40 credit points) including the majors and sub-majors listed below.

Majors

M3079.1	Conservation Biology
M3084.1	Environmental Consulting
M3081.1	Marine Biology

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Bachelor of Science - Pathway to Teaching (Primary/Secondary)**3736.1**

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

Graduates of this degree are eligible for direct entry into the Master of Teaching (Primary) or Master of Teaching (Secondary) via Transition to Teaching pathway.

Completion of both the Bachelor's and Master's courses provides a teaching qualification in Primary or Secondary schools. Eligible students will receive advice during their final study session in the Bachelor of Science - Pathway to Teaching (Primary/ Secondary) regarding how to accept an offer into the Postgraduate course to attain a teaching qualification.

The Bachelor of Science - Pathway to Teaching (Primary/ Secondary) is a three year degree specially designed to lead into the Master of Teaching (Primary/Secondary), an accredited postgraduate teaching qualification. The Bachelor of Science - Pathway to Teaching (Primary/ Secondary) component provides a focussed study in a Major content discipline of your choice as well as opportunity to study an Education Studies Major that develops understandings of contemporary education issues, teaching and learning.

As well as being equipped with all the necessary elements of an initial teacher qualification, Bachelor of Science - Pathway to Teaching (Primary/Secondary) graduates are prepared for a wide range of alternate employment opportunities with strong communication and people skills, creativity and capacity for independent thought, flexibility and adaptability in new situations, all increasingly demanded by employers.

Study Mode

Three years full-time or six years part-time.

Location

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

Accreditation

The Bachelor of Science (Chemistry) - Pathway to Teaching (Secondary) is accredited with RACI for normal entry of a graduate to the Chartered Chemist qualification.

Admission

Assumed Knowledge: At least two units of Biology, Chemistry, Mathematics and Physics

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

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

International applicants must apply directly to Western Sydney University via the International Office. International students can find details of minimum English proficiency requirements and acceptable proof on the International Office website.

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

Course Structure

Qualifying for this award requires successful completion of 240 credit points within the following rules

Students completing the biological sciences program must follow the course structure for 3677 Bachelor of Science (Biological Science)

Students completing the chemistry program must follow the course structure for 3676 Bachelor of Science (Chemistry)

Students completing the mathematical sciences program must follow the course structure for 3679 Bachelor of Science (Mathematical Science)

Students completing other science programs must follow the course structure for 3675 Bachelor of Science

In addition, all students must complete the mandatory 40 credit point sub-major in Education Studies (SM1100 Education Studies).

Students must meet this requirement by choosing the units from SM1100 as electives within their Bachelor of Science program.

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

SM3089.1 Statistics

Western Sydney University offers Sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Bachelor of Science/Bachelor of Arts

3658.6

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

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

This double degree program is designed for students whose interests span the Arts and Sciences. It will produce versatile graduates who can work across a range of academic and professional disciplines, including the opportunity to develop global perspectives and communication skills in an Asian language. In the Science area, students can design their own academic program within the Bachelor of Science course structure, which must include a science Major. This qualification in science can be combined with one of the following majors: International Relations and Asian Studies; Cultural and Social Analysis; English; History and Political Thought; Philosophy; Indigenous Australian Studies; Arabic, Chinese; Japanese; Indonesian; Islamic studies: Linguistics; Psychological Studies.

Students in this double degree also have the opportunity to complete a semester of study overseas and receive advanced standing towards their BA majors and sub majors subject to WSU limits on advanced standing. Students are encouraged to do so but must discuss this with a BA course advisor first.

Study Mode

Four years full-time or eight years part-time.

Location

Campus

Attendance Mode

Parramatta Campus - Victoria Road Full Time Internal

Admission

Assumed Knowledge: At least two units of Biology, Chemistry, Mathematics and Physics.

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

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

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

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

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

Course Structure

Qualification for this award requires the successful completion of 320 credit points as prescribed in the

structure below. Students who complete this award will graduate with a Bachelor of Science and a Bachelor of Arts.

Note: At least 60 credit points must be at Level 3 or above.

Students who wish to exit this double degree after their third year and graduate with a Bachelor of Science must have completed 240 credit points and completed the units as listed below in Years 1, 2 and 3.

Students completing the Bachelor of Science portion of this double degree must complete one of the Science majors listed in the first three years of study.

The conceptual design of this Bachelor of Science/Bachelor of Arts double degree is as follows.

Years 1 to 3

Students will complete 160 credit points of Bachelor of Science units as listed in the course structure below.

In Years 1 to 4 they will complete the four Bachelor of Arts (BA) core units, eight Bachelor of Arts Major units from one of the following Bachelor of Arts Majors and four Bachelor of Arts Sub-major units from one of the Sub-majors listed

For details of the relevant Arts Specialisations, refer to the current listing of Bachelor of Arts.

Bachelor of Arts Majors

- Arabic
- Chinese
- Cultural and Social Analysis
- English
- History and Political Thought
- Indigenous Australian Studies
- Indonesian
- International Relations and Asian Studies
- Islamic Studies
- Japanese
- Linguistics
- Philosophy
- Psychological Studies

Bachelor of Arts Sub-majors

- Arabic
- Chinese
- Cultural and Social Analysis
- English
- History and Political Thought
- Immersion Language

- Indigenous Australian Creative Expressions
- Indigenous Australian Studies
- Indigenous Economics
- Indonesian
- International Relations and Asian Studies
- Islamic Studies
- Japanese
- Linguistics
- Philosophy
- Psychological Studies

Arts Units

For details of the relevant Arts units, refer to the current listing of Bachelor of Arts.

Recommended Sequence

Science Component

Students must study 16 Science units following one of the following Key Programs

- Bachelor of Science (Biological Sciences)
- Bachelor of Science (Chemistry)
- Bachelor of Science (Mathematical Science)
- Bachelor of Science (called 'Science' in the unit set structure below).

Students following the Bachelor of Science Key Program must choose five Level 1 units within the following rules

- At least one mathematics or statistics unit
- Remaining units must cover at least two of the following scientific disciplines: chemistry, biology, physics, computing

Students following the Bachelor of Science (Science) Key Program must also complete at least one of the Science specialisations (majors)

M3090.1	Biochemistry and Molecular Biology
M3047.1	Chemistry
M3080.1	General Biology
M3054.1	Mathematics

And one Level 3 capstone unit.

Consult the handbook entry for the Bachelor of Science degree course for further details about the science majors.

Year 1**Autumn session**

Choose two core Arts units from

100846.2	Analytical Reading and Writing
100958.2	Australia and the World
100960.2	Contemporary Society
100968.3	Texts and Traditions

Choose two science units relevant to the Key Program as follows

Biological Sciences Key Program

300802.2	Biodiversity
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Choose one of

300800.2	Essential Chemistry 1
300808.2	Introductory Chemistry

Chemistry Key Program

300800.2	Essential Chemistry 1
300828.1	Physics 1

Mathematical Science Key Program

300672.2	Mathematics 1A
200025.2	Discrete Mathematics

Science Key Program

Biochemistry and Molecular Biology specialisation

300802.2	Biodiversity
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Choose one of

300800.2	Essential Chemistry 1
300808.2	Introductory Chemistry

Chemistry specialisation

300800.2	Essential Chemistry 1
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And one science unit from the list below

General Biology specialisation

300802.2	Biodiversity
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And one science unit from the list below

Mathematics specialisation

300672.2	Mathematics 1A
200025.2	Discrete Mathematics

List of science units

300802.2	Biodiversity
300800.2	Essential Chemistry 1
300808.2	Introductory Chemistry
300828.1	Physics 1

Note: Choose one chemistry unit only

Spring session

Choose two core Arts units from

100846.2	Analytical Reading and Writing
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100958.2	Australia and the World
100960.2	Contemporary Society
100968.3	Texts and Traditions

Choose two science units relevant to the Key Program as follows

Biological Sciences Key Program

300816.1	Cell Biology
300803.1	Essential Chemistry 2

Chemistry Key Program

300803.1	Essential Chemistry 2
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Choose one of

300816.1	Cell Biology
300818.1	Introduction to Physiology
300829.1	Physics 2
300831.3	Quantitative Thinking

Mathematical Sciences Key Program

300673.2	Mathematics 1B
200263.5	Biometry

Science Key Program

Biochemistry and Molecular Biology specialisation

300816.1	Cell Biology
300803.1	Essential Chemistry 2

Chemistry specialisation

300803.1	Essential Chemistry 2
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And one science unit from the list below

General Biology specialisation

300816.1	Cell Biology
-----------------	--------------

And one science unit from the list below

Mathematics specialisation

300673.2	Mathematics 1B
-----------------	----------------

And one science unit from the list below

List of science units

300816.1	Cell Biology
300803.1	Essential Chemistry 2
300818.1	Introduction to Physiology
300829.1	Physics 2

Year 2**Autumn session**

One Arts major or sub-major unit

Choose three science units relevant to the Key Program as follows

Biological Sciences Key Program

300936.1	Functional Proteins and Genes
300845.1	Genetics
300833.1	Microbiology 1

Chemistry Key Program

- 300876.1 Organic Chemistry
300832.1 Analytical Chemistry

Choose one of

- 300830.2 Analysis of Change
300672.2 Mathematics 1A

Mathematical Science Key Program

- 200028.3 Advanced Calculus
301033.1 Introduction to Data Science
200027.3 Linear Algebra

Science Key Program: Non-mathematics Specialisations

Biochemistry and Molecular Biology, Chemistry, General Biology specialisations

Choose at least one Level 1 mathematics unit from the list below in either semester in second year

Mathematics units

- 300830.2 Analysis of Change
200263.5 Biometry
200025.2 Discrete Mathematics
300672.2 Mathematics 1A
300831.3 Quantitative Thinking

Choose two science units if completing a mathematics unit in Autumn, or three science units otherwise

Science units

- 300832.1 Analytical Chemistry
300936.1 Functional Proteins and Genes
300930.1 Classical Physics and Advanced Technologies
300845.1 Genetics
300931.1 Integrated Science
300833.1 Microbiology 1
300876.1 Organic Chemistry
300865.1 Plant Physiology

Science Key Program: Mathematics Specialisation

- 200027.3 Linear Algebra
200028.3 Advanced Calculus

And one unit from the list below

- 300802.2 Biodiversity
300800.2 Essential Chemistry 1
300808.2 Introductory Chemistry
300828.1 Physics 1

Spring session

One Arts major or sub-major unit

Choose three science units relevant to the Key Program as follows

Biological Sciences Key Program

- 300817.1 Molecular Biology

Choose one of

- 300838.1 Comparative Physiology

- 300839.1 Ecology
300847.2 Immunology
300848.1 Metabolism
300896.1 Microbiology 2

And choose one of

- 200263.5 Biometry
300831.3 Quantitative Thinking

Chemistry Key Program

- 300899.1 Inorganic Chemistry
300849.2 Physical Chemistry

Choose one of

- 300838.1 Comparative Physiology
200030.4 Differential Equations
300839.1 Ecology
301032.1 Making Sense of Data

Mathematical Science Key Program

- 200030.4 Differential Equations
301032.1 Making Sense of Data

Choose one of

- 300816.1 Cell Biology
300803.1 Essential Chemistry 2

Science Key Program: Non-mathematics Specialisations

Biochemistry and Molecular Biology, Chemistry, General Biology specialisations

Choose one mathematics unit and two science units or three science units (if mathematics unit completed in Autumn)

Science units

- 300838.1 Comparative Physiology
300839.1 Ecology
300847.2 Immunology
300899.1 Inorganic Chemistry
300848.1 Metabolism
300896.1 Microbiology 2
300817.1 Molecular Biology
300849.2 Physical Chemistry

Science Key Program: Mathematics Specialisation

- 200030.4 Differential Equations

Choose two of

- 300838.1 Comparative Physiology
300839.1 Ecology
300899.1 Inorganic Chemistry
301032.1 Making Sense of Data
300849.2 Physical Chemistry

Year 3**Autumn session**

One Arts major or sub-major unit

Science capstone units: select at least one capstone unit in either semester of Year 3

Choose three science units relevant to the Key Program as follows

Biological Sciences Key Program

Choose three of

300850.1	Advanced Cell Biology
300820.1	Genes, Genomics and Human Health
300919.1	Occupational Health and Safety
300819.1	Topics in Physiology

Capstone units

300851.1	Advanced Physiology
300866.1	Analytical Microbiology
300978.1	Marine and Aquatic Ecology

Chemistry Key Program

300907.1	Advanced Inorganic Chemistry
300857.1	Environmental Geochemistry

Please note unit 300857 replaced by 301212 Science of the Anthropocene from 2019.

301212.1	Science of the Anthropocene
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Choose one of

300926.1	Advanced Physical Chemistry
300912.1	Molecular Pharmacokinetics

Mathematical Science Key Program

200193.2	Abstract Algebra
200023.3	Analysis
301034.1	Predictive Modelling

Science Key Program

Choose three of

300907.1	Advanced Inorganic Chemistry
300926.1	Advanced Physical Chemistry
300857.1	Environmental Geochemistry

Please note unit 300857 replaced by 301212 Science of the Anthropocene from 2019.

200193.2	Abstract Algebra
300850.1	Advanced Cell Biology
200023.3	Analysis
300820.1	Genes, Genomics and Human Health
301034.1	Predictive Modelling
301212.1	Science of the Anthropocene
300819.1	Topics in Physiology

Capstone units

300851.1	Advanced Physiology
300866.1	Analytical Microbiology
300978.1	Marine and Aquatic Ecology

Spring session

One Arts major or sub-major unit

Choose three science units as follows

Biological Sciences Key Program

Choose three of

300905.1	Advanced Immunology
300918.3	Invertebrate Biology
300861.1	Vertebrate Biodiversity

Capstone units

300909.1	Biological Adaptation to Climate Change
300855.1	Conservation Biology
300883.1	Laboratory Quality Management
300927.2	Molecular Medicine
300924.1	Science Research Project

Chemistry Key Program

300925.1	Advanced Analytical Chemistry
300906.1	Advanced Organic Chemistry

Capstone units

Choose one of

300883.1	Laboratory Quality Management
300924.1	Science Research Project

Mathematical Science Key Program

301035.1	Environmental Informatics
200022.3	Mathematical Modelling

Capstone unit

200045.3	Quantitative Project
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Science Key Program

Choose three of

300925.1	Advanced Analytical Chemistry
300905.1	Advanced Immunology
300906.1	Advanced Organic Chemistry
301035.1	Environmental Informatics
300918.3	Invertebrate Biology
200022.3	Mathematical Modelling
300826.1	Medical Microbiology
300923.1	Quantum Physics
300861.1	Vertebrate Biodiversity

Capstone units

300909.1	Biological Adaptation to Climate Change
300855.1	Conservation Biology
300883.1	Laboratory Quality Management
300927.2	Molecular Medicine
200045.3	Quantitative Project
300924.1	Science Research Project

Year 4

Autumn session

Four Bachelor of Arts major or sub-major units

Spring session

Four Bachelor of Arts major or sub-major units

Bachelor of Science/Bachelor of Business

4748.2

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

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

The Bachelor of Science/Bachelor of Business double degree program allows graduates to span both the commercial and scientific worlds in a way that single degree graduates cannot. The double degrees permit students to undertake multi-skilling, and offer diverse career paths providing high marketability in multiple areas of expertise. Graduates will have a solid grounding in a core science discipline such as Biological Sciences, Chemistry or Mathematics. This qualification in science is combined with one of the following Majors from the Bachelor of Business: Applied Finance; Economics; Hospitality Management; Human Resource Management; International Business; Management; Marketing; Sport Management. Graduates will be equipped to work as scientists, with a good understanding of business principles and practices. Alternatively, as Business graduates they will be well-prepared to work in science-based industries and institutions.

Study Mode

Four years full-time

Location

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

Accreditation

The Bachelor of Science (Chemistry) is accredited by The Royal Australian Chemical Institute (RACI). Major MT2021 - Applied Finance satisfies the educational requirements for membership of the Financial Services Institute of Australasia (Finsia). Major MT2024 - The School of Business will seek to have the Bachelor of Business (Human Resource Management) accredited with the Australian Human Resources Institute (AHRI). Major MT2027 - Marketing satisfies the educational requirements for recognition as a Certified Practising Marketer and eligibility for membership of the Australian Marketing Institute (AMI)

Admission

Eligibility for admission to the Bachelor Science/Bachelor of Business is based on the following requirements

Bachelor of Science assumed knowledge: At least two of Biology, Chemistry, Mathematics, Physics at HSC level.

Bachelor of Business assumed knowledge: HSC Mathematics and any two units of HSC English.

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

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

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

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

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

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

Course Structure

Qualification for this award requires the successful completion of 320 credit points as prescribed in the structure below.

Students who complete this award will graduate with a Bachelor of Science and a Bachelor of Business.

Science Component

Students must complete 16 Science units following one of the following programs

Students following the Bachelor of Science (Science - General) program must complete all three parts listed below

Part 1: Five Level 1 units within the following rules

- At least one mathematics or statistics unit
- Remaining units must cover at least two of the scientific disciplines of chemistry, biology, physics, computing

Part 2: At least one of the Science specialisations/majors

M3090.1	Biochemistry and Molecular Biology
M3047.1	Chemistry
M3080.1	General Biology
M3054.1	Mathematics

Part 3: One level 3 capstone unit

Consult the handbook entry for the Bachelor of Science degree course for further details about the science majors.

Business Component

The four compulsory core units (40 credit points) that provide students with essential business knowledge are

200911.1	Enterprise Innovation and Markets
200909.2	Enterprise Law

200912.1 Enterprise Leadership
200910.1 Financing Enterprises

Professional units (choose 40 credit points)

The professional units provide a focus on careers. Students are required to complete one unit from each of the four key focus areas: numeracy, career planning, innovation, and enterprise engagement, a total of 40 credit points.

Students are advised to choose units that will support careers in one of three areas: Money (for majors in Applied Finance, Economics), Markets (for majors in Hospitality Management, International Business, Marketing, and Sport Management), Management (for majors in Human Resource Management, and Management).

The professional units that are recommended for each of the Bachelor of Business testamur majors are specified in the majors.

Majors (choose 80 credit points from one primary Business major. These are testamur majors)

Students are required to complete eight major core units from one of the following primary Business majors.

Majors for Careers in Money

MT2021.1 Applied Finance
MT2022.1 Economics

Majors for Careers in Markets

MT2035.1 Hospitality Management
MT2025.1 International Business
MT2027.1 Marketing
MT2036.1 Sport Management

Majors for Careers in Management

MT2024.1 Human Resource Management
MT2026.1 Management

Recommended Sequence

Use the links to each Bachelor of Business Major to see the Core, Professional and Major units required. Students should follow the recommended sequence below and not the recommended sequence listed under each Bachelor of Business Major.

This progression pattern is highly recommended. Students progress through both degrees at the same pace, completing two units in each degree in each semester. Graduation after three years with either degree will be possible only if a student makes this decision at or before the end of Year 2 and amends their progression pattern as prescribed by an Academic Course Advisor.

Year 1

Autumn session

Bachelor of Business Units

- BBus core unit 1
- BBus core unit 2

Students must select Bachelor of Science units depending on their major

Biological Sciences

300802.1 Biodiversity
300808.2 Introductory Chemistry

Chemistry

300808.2 Introductory Chemistry
300828.1 Physics 1

Mathematics

300672.2 Mathematics 1A
200025.2 Discrete Mathematics

Science - General

Choose two of

300830.2 Analysis of Change
300802.1 Biodiversity
200025.2 Discrete Mathematics
300808.2 Introductory Chemistry
300672.2 Mathematics 1A
300828.1 Physics 1
300831.3 Quantitative Thinking

Spring session

Bachelor of Business Units

- BBus core unit 3
- BBus core unit 4

Students must select Bachelor of Science units depending on their major

Biological Sciences

300816.1 Cell Biology
300803.1 Essential Chemistry 2

Chemistry

300803.1 Essential Chemistry 2

Choose one of

300816.1 Cell Biology
300818.1 Introduction to Physiology
300829.1 Physics 2
300831.3 Quantitative Thinking

Mathematics

300673.2 Mathematics 1B
200263.5 Biometry

Science - General

Choose two of

200263.5 Biometry
300816.1 Cell Biology
300803.1 Essential Chemistry 2
300818.1 Introduction to Physiology
300672.2 Mathematics 1A
300673.2 Mathematics 1B
300829.1 Physics 2
300831.3 Quantitative Thinking

Year 2**Autumn session****Bachelor of Business Units**

- BBus professional unit 1
- BBus major unit 1

Students must select Bachelor of Science units depending on their major

Biological Sciences

- 300936.1** Functional Proteins and Genes
300833.1 Microbiology 1

Chemistry

Choose one of

- 300832.1** Analytical Chemistry
300876.1 Organic Chemistry

Choose one of

- 300830.2** Analysis of Change
300672.2 Mathematics 1A

Mathematics

- 300580.3** Programming Fundamentals

Choose one of

- 300802.1** Biodiversity
300808.2 Introductory Chemistry
300134.2 Introduction to Information Technology
300828.1 Physics 1

Science - General

Choose one of

- 200028.3** Advanced Calculus
300832.1 Analytical Chemistry
300936.1 Functional Proteins and Genes
300845.1 Genetics
300931.1 Integrated Science
301033.1 Introduction to Data Science
200027.3 Linear Algebra
300833.1 Microbiology 1
300876.1 Organic Chemistry
300865.1 Plant Physiology

Choose one of

- 300830.2** Analysis of Change
300802.1 Biodiversity
200025.2 Discrete Mathematics
300808.2 Introductory Chemistry
300672.2 Mathematics 1A
300828.1 Physics 1
300831.3 Quantitative Thinking

Spring session**Bachelor of Business Units**

- BBus professional unit 2
- BBus major unit 2

Students must select Bachelor of Science units depending on their major

Biological Sciences

- 300817.1** Molecular Biology

Choose one of

- 200263.5** Biometry
300831.3 Quantitative Thinking

Chemistry

Choose one of

- 300899.1** Inorganic Chemistry
300849.2 Physical Chemistry

Choose one of

- 300816.1** Cell Biology
300818.1 Introduction to Physiology
300134.2 Introduction to Information Technology
300829.1 Physics 2
300580.3 Programming Fundamentals

Mathematics

- 200300.2** Managing People at Work

Choose one of

- 300816.1** Cell Biology
300803.1 Essential Chemistry 2
300818.1 Introduction to Physiology
300134.2 Introduction to Information Technology
301033.1 Introduction to Data Science
300829.1 Physics 2

Science - General

Choose two of

- 300838.1** Comparative Physiology
200030.4 Differential Equations
300839.1 Ecology
300847.2 Immunology
300899.1 Inorganic Chemistry
301032.1 Making Sense of Data
300848.1 Metabolism
300896.1 Microbiology 2
300817.1 Molecular Biology
300849.2 Physical Chemistry

Year 3**Autumn session****Bachelor of Business Units**

- BBus major unit 3
- BBus major unit 4

Students must select Bachelor of Science units depending on their major

Biological Sciences

- 300845.1** Genetics

Choose one of

300931.1 Integrated Science
300865.1 Plant Physiology

Chemistry

Choose one of

300832.1 Analytical Chemistry
300876.1 Organic Chemistry

Choose one of

300936.1 Functional Proteins and Genes
300845.1 Genetics
300931.1 Integrated Science
300833.1 Microbiology 1
300865.1 Plant Physiology

Mathematics

200028.3 Advanced Calculus
200027.3 Linear Algebra

Science - General

Choose two of

200028.3 Advanced Calculus
300832.1 Analytical Chemistry
300936.1 Functional Proteins and Genes
300845.1 Genetics
301033.1 Introduction to Data Science
200027.3 Linear Algebra
300931.1 Integrated Science
300833.1 Microbiology 1
300876.1 Organic Chemistry
300865.1 Plant Physiology

Spring session

Bachelor of Business Units

- BBus major unit 5
- BBus major unit 6

Students must select Bachelor of Science units depending on their major

Biological Sciences

Choose one of

300838.1 Comparative Physiology
300839.1 Ecology
300847.2 Immunology
300848.1 Metabolism
300896.1 Microbiology 2

Choose one of

300905.1 Advanced Immunology
300855.1 Conservation Biology
300826.1 Medical Microbiology

Chemistry

Choose one of

300899.1 Inorganic Chemistry
300849.2 Physical Chemistry

Choose one of

300925.1 Advanced Analytical Chemistry
300906.1 Advanced Organic Chemistry

Mathematics

200022.3 Mathematical Modelling
301032.1 Making Sense of Data

Science - General

Choose one of

300838.1 Comparative Physiology
200030.4 Differential Equations
300839.1 Ecology
300847.2 Immunology
300899.1 Inorganic Chemistry
301032.1 Making Sense of Data
300848.1 Metabolism
300896.1 Microbiology 2
300817.1 Molecular Biology
300849.2 Physical Chemistry

Choose one of

300925.1 Advanced Analytical Chemistry
300905.1 Advanced Immunology
300906.1 Advanced Organic Chemistry
300855.1 Conservation Biology
301035.1 Environmental Informatics
200022.3 Mathematical Modelling
300826.1 Medical Microbiology

Year 4

Autumn session

Bachelor of Business Units

- BBus professional unit 3
- BBus major unit 7

Students must select Bachelor of Science units depending on their major

Biological Sciences

Choose two of

300850.1 Advanced Cell Biology
300820.1 Genes, Genomics and Human Health
300819.1 Topics in Physiology

Chemistry

300907.1 Advanced Inorganic Chemistry

Choose one of

300926.1 Advanced Physical Chemistry
300912.1 Molecular Pharmacokinetics

Mathematics

Choose two of

200193.2 Abstract Algebra
200023.3 Analysis
301034.1 Predictive Modelling

Science - General

Choose two of

- 200193.2** Abstract Algebra
- 300850.1** Advanced Cell Biology
- 300907.1** Advanced Inorganic Chemistry
- 300926.1** Advanced Physical Chemistry
- 200023.3** Analysis
- 300820.1** Genes, Genomics and Human Health
- 301034.1** Predictive Modelling
- 300819.1** Topics in Physiology

Or

- 300912.1** Molecular Pharmacokinetics

Note: Students may only choose one unit from 300926 - Advanced Physical Chemistry or 300912 - Molecular Pharmacokinetics

Spring session**Bachelor of Business Units**

- BBus professional unit 4
- BBus major unit 8

Students must select Bachelor of Science units depending on their major

Biological Sciences

Choose two of

- 300927.2** Molecular Medicine

(Capstone unit)

- 300924.1** Science Research Project

(Capstone unit)

- 300855.1** Conservation Biology

(Capstone unit)

- 300905.1** Advanced Immunology
- 300826.1** Medical Microbiology

Chemistry

Choose two of

- 300924.1** Science Research Project

(Capstone unit)

- 300883.1** Laboratory Quality Management

(Capstone unit)

- 300925.1** Advanced Analytical Chemistry
- 300906.1** Advanced Organic Chemistry

Mathematics

- 200045.3** Quantitative Project

(Capstone unit)

- 301035.1** Environmental Informatics

Science - General

Choose two of

- 300855.1** Conservation Biology

(Capstone unit)

- 300924.1** Science Research Project

(Capstone unit)

- 300883.1** Laboratory Quality Management

(Capstone unit)

- 200045.3** Quantitative Project

(Capstone unit)

- 300925.1** Advanced Analytical Chemistry
- 300905.1** Advanced Immunology
- 300906.1** Advanced Organic Chemistry
- 200025.2** Discrete Mathematics
- 301035.1** Environmental Informatics
- 300826.1** Medical Microbiology
- 300927.2** Molecular Medicine

Bachelor of Science/Bachelor of International Studies**3660.6**

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

This double degree program is designed for students who want to combine their interest and expertise in science with a sophisticated understanding of international issues and systems. This will equip them to work in globalised science-based professions and industries. In the Science area, students can design their own academic program within the Bachelor of Science course structure, which must include a science major. This will be combined with a degree in International Studies that examines the relationships of societies, cultures, languages and systems of government within the international system. It develops students' capacity to analyse the historical development of relations among nation states and contemporary political, social and cultural issues, such as globalisation, transnationalism and migration. Students complete a major in International Relations and Asian Studies, and a sub-major in any Asian language, Arabic, Chinese, Indonesian, or Japanese.

Students in this double degree also have the opportunity to complete a semester of study overseas and receive advanced standing towards their BA majors and sub majors subject to Western Sydney University limits on advanced standing. Students are encouraged to do so but must discuss this with a BA course advisor first.

Study Mode

Four years full-time or eight years part-time.

Location

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Full Time	Internal

Accreditation

The Bachelor of Science (Chemistry)/Bachelor of International Studies is accredited by The Royal Australian Chemical Institute Incorporated (RACI).

Admission

The following sets of Assumed Knowledge and Recommended Studies apply.

Bachelor of Science

Assumed knowledge: At least two of Biology, Chemistry, Mathematics, Physics

Bachelor of International Studies

Assumed knowledge: Two units of HSC English at Band 4

Recommended studies: HSC English Standard, or equivalent

<https://westernsydney.uac.edu.au/ws/>

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

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

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

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

Course Structure

Qualification for this award requires the successful completion of 320 credit points as prescribed in the structure below. Students who complete this award will graduate with a Bachelor of Science and a Bachelor of International Studies.

Note: At least 60 credit points must be at Level 3 or above. Students who wish to exit this double degree after their third year and graduate with a Bachelor of Science must have completed 240 credit points and completed the units as listed below in Years 1, 2 and 3.

Students completing the Bachelor of Science portion of this double degree must complete one of the Science majors listed, in the first three years of study.

The conceptual design of this BSc/BIS double degree is as follows:

Years 1 to 3

Students complete 160 credit points of Bachelor of Science units as listed in the course structure below.

In Years 1 to 4 students complete the four Bachelor of Science/Bachelor of International Studies core units and 12 Bachelor of International Studies units as offered on Parramatta campus only.

The International Relations and Asian Studies major and the following sub-majors are available in the Bachelor of International Studies course

- Arabic
- Chinese
- Indonesian
- Japanese
- Immersion Language

Bachelor of International Studies Units

For details of the relevant International Studies units, refer to the current listing of Bachelor of International Studies, course code 1658 - Bachelor of International Studies. Continuing students should refer to the earlier versions of 1658 -Bachelor of International Studies.

Science Component

Students must study 16 Science units following one of the following programs

- Bachelor of Science (Biological Sciences)
- Bachelor of Science (Chemistry)
- Bachelor of Science (Mathematical Science)
- Bachelor of Science (called 'Science' in the unit set structure below)

Students following the Bachelor of Science program must choose five Level 1 units within the following rules

- At least one mathematics or statistics unit
- Remaining units must cover at least two of the following scientific disciplines: chemistry, biology, physics, computing

Students following the Bachelor of Science (Science) program must also complete at least one of the Science specialisations (majors)

M3090.1	Biochemistry and Molecular Biology
M3047.1	Chemistry
M3080.1	General Biology
M3054.1	Mathematics

And one Level 3 capstone unit.

Consult the handbook entry for the Bachelor of Science degree course for further details about the science majors.

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

Choose two core Arts units from the following

100846.2	Analytical Reading and Writing
100958.2	Australia and the World
100960.2	Contemporary Society
100968.3	Texts and Traditions

Choose two science units appropriate for your science major as follows

Biological Sciences

300802.2	Biodiversity
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Choose one of

300800.2	Essential Chemistry 1
300808.2	Introductory Chemistry

Chemistry

300800.2	Essential Chemistry 1
300828.1	Physics 1

Mathematical Science

200025.2	Discrete Mathematics
300672.2	Mathematics 1A

Science

Biochemistry and Molecular Biology specialisation

300802.2	Biodiversity
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Choose one of

300800.2	Essential Chemistry 1
300808.2	Introductory Chemistry

Chemistry specialisation

300800.2	Essential Chemistry 1
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And one science unit from the list below

General Biology specialisation

300802.2	Biodiversity
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And one science unit from the list below

Mathematics specialisation

200025.2	Discrete Mathematics
300672.2	Mathematics 1A

List of science Units

300802.2	Biodiversity
300800.2	Essential Chemistry 1
300808.2	Introductory Chemistry
300828.1	Physics 1

*Students are to select only one Chemistry unit

Spring session

Choose two Core Arts units from the list below

100846.2	Analytical Reading and Writing
100958.2	Australia and the World
100960.2	Contemporary Society
100968.3	Texts and Traditions

Choose two science units appropriate for your science major as follows

Biological Sciences

300816.1	Cell Biology
300803.1	Essential Chemistry 2

Chemistry

300803.1	Essential Chemistry 2
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Choose one of

300816.1	Cell Biology
300818.1	Introduction to Physiology
300829.1	Physics 2
300831.3	Quantitative Thinking

Mathematical Sciences

300673.2	Mathematics 1B
200263.5	Biometry

Science

Biochemistry and Molecular Biology specialisation

300816.1	Cell Biology
300803.1	Essential Chemistry 2

Chemistry specialisation

300803.1	Essential Chemistry 2
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And one science unit from the list below

General Biology specialisation

300816.1	Cell Biology
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And one science unit from the list below

Mathematics specialisation

300673.2	Mathematics 1B
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And one science unit from the list below

List of science units

300816.1	Cell Biology
300803.1	Essential Chemistry 2
300818.1	Introduction to Physiology
300829.1	Physics 2

Year 2**Autumn session**

One compulsory Level 1 BIS major unit

Choose three science units appropriate for your science major as follows

Biological Sciences

300936.1	Functional Proteins and Genes
300845.1	Genetics

300833.1 Microbiology 1

Chemistry

300832.1 Analytical Chemistry
300876.1 Organic Chemistry

Choose one of

300830.2 Analysis of Change
300672.2 Mathematics 1A

Mathematical Science

200028.3 Advanced Calculus
301033.1 Introduction to Data Science
200027.3 Linear Algebra

Science: Non-mathematics Specialisations

Biochemistry and Molecular Biology, Chemistry and General Biology specialisations

Choose at least one Level 1 mathematics unit from the list below in either semester in second year

Mathematics units

300830.2 Analysis of Change
200263.5 Biometry
200025.2 Discrete Mathematics
300672.2 Mathematics 1A
300831.3 Quantitative Thinking

Choose two science units if completing a mathematics unit in Autumn, or three science units otherwise

Science units

300832.1 Analytical Chemistry
300930.1 Classical Physics and Advanced Technologies
300936.1 Functional Proteins and Genes
300845.1 Genetics
300931.1 Integrated Science
300833.1 Microbiology 1
300876.1 Organic Chemistry
300865.1 Plant Physiology

Science: Mathematics Specialisation

200028.3 Advanced Calculus
200027.3 Linear Algebra

Choose one of

300802.2 Biodiversity
300800.2 Essential Chemistry 1
300808.2 Introductory Chemistry
300828.1 Physics 1

Spring session

One compulsory Level 1 BIS major unit

Choose three science units appropriate for your science major as follows

Biological Sciences

300817.1 Molecular Biology

Choose one of

300838.1 Comparative Physiology
300839.1 Ecology
300847.2 Immunology
300848.1 Metabolism
300896.1 Microbiology 2

Choose one of

200263.5 Biometry
300831.3 Quantitative Thinking

Chemistry

300899.1 Inorganic Chemistry
300849.2 Physical Chemistry

Choose one of

300838.1 Comparative Physiology
200030.4 Differential Equations
300839.1 Ecology
301032.1 Making Sense of Data

Mathematical Science

200030.4 Differential Equations
301032.1 Making Sense of Data

Choose one of

300816.1 Cell Biology
300803.1 Essential Chemistry 2

Science: Non-mathematics Specialisations

Biochemistry and Molecular Biology, Chemistry and General Biology specialisations

Choose either one mathematics unit and two science units or three science units (if mathematics unit completed in Autumn)

Science units

300838.1 Comparative Physiology
300839.1 Ecology
300847.2 Immunology
300899.1 Inorganic Chemistry
300848.1 Metabolism
300896.1 Microbiology 2
300817.1 Molecular Biology
300849.2 Physical Chemistry

Science: Mathematics specialisation

200030.4 Differential Equations

Choose two of

300838.1 Comparative Physiology
300839.1 Ecology
300899.1 Inorganic Chemistry
301032.1 Making Sense of Data
300849.2 Physical Chemistry

Year 3

Autumn session

One LOTE (Language other than English) sub-major unit

Choose three science units appropriate for your science major as follows

Biological Sciences

- 300850.1** Advanced Cell Biology
- 300820.1** Genes, Genomics and Human Health
- 300919.1** Occupational Health and Safety
- 300819.1** Topics in Physiology

Capstone units

- 300851.1** Advanced Physiology
- 300866.1** Analytical Microbiology
- 300978.1** Marine and Aquatic Ecology

Chemistry

- 300907.1** Advanced Inorganic Chemistry
- 300857.1** Environmental Geochemistry

Please note unit 300857 replaced by 301212 Science of the Anthropocene from 2019.

- 301212.1** Science of the Anthropocene

Choose one of

- 300926.1** Advanced Physical Chemistry
- 300912.1** Molecular Pharmacokinetics

Mathematical Science

- 200193.2** Abstract Algebra
- 200023.3** Analysis
- 301034.1** Predictive Modelling

Science

Choose three of

- 300907.1** Advanced Inorganic Chemistry
- 300926.1** Advanced Physical Chemistry
- 300857.1** Environmental Geochemistry

Please note unit 300857 replaced by 301212 Science of the Anthropocene from 2019.

- 200193.2** Abstract Algebra
- 300850.1** Advanced Cell Biology
- 200023.3** Analysis
- 300820.1** Genes, Genomics and Human Health
- 301034.1** Predictive Modelling
- 301212.1** Science of the Anthropocene
- 300819.1** Topics in Physiology

Capstone units

- 300851.1** Advanced Physiology
- 300866.1** Analytical Microbiology
- 300978.1** Marine and Aquatic Ecology

Spring session

One LOTE (Language other than English) sub-major unit
Choose three science units appropriate for your science major as follows

Biological Sciences

- 300905.1** Advanced Immunology

- 300918.3** Invertebrate Biology
- 300861.1** Vertebrate Biodiversity

Capstone units

- 300909.1** Biological Adaptation to Climate Change
- 300855.1** Conservation Biology
- 300883.1** Laboratory Quality Management
- 300927.2** Molecular Medicine
- 300924.1** Science Research Project

Chemistry

- 300925.1** Advanced Analytical Chemistry
- 300906.1** Advanced Organic Chemistry

Choose one capstone unit

- 300883.1** Laboratory Quality Management
- 300924.1** Science Research Project

Mathematical Science

- 301035.1** Environmental Informatics
- 200022.3** Mathematical Modelling

Capstone unit

- 200045.3** Quantitative Project

Science

Choose three of

- 300925.1** Advanced Analytical Chemistry
- 300905.1** Advanced Immunology
- 300906.1** Advanced Organic Chemistry
- 301035.1** Environmental Informatics
- 300918.3** Invertebrate Biology
- 200022.3** Mathematical Modelling
- 300826.1** Medical Microbiology
- 300923.1** Quantum Physics
- 300861.1** Vertebrate Biodiversity

Capstone units

- 300909.1** Biological Adaptation to Climate Change
- 300855.1** Conservation Biology
- 300883.1** Laboratory Quality Management
- 300927.2** Molecular Medicine
- 200045.3** Quantitative Project
- 300924.1** Science Research Project

Year 4

Autumn session

Four BIS units – 3 x BIS major units and 1 x LOTE submajor unit.

Students might otherwise exercise the option to undertake study abroad this semester.

Spring session

Four BIS units – 3 x BIS major units and 1 x LOTE submajor unit

Bachelor of Speech Pathology

4763.1

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year for this course is Autumn 2020.

The Bachelor of Speech Pathology is a four-year full-time degree. Speech pathologists assess and treat disorders of communication in areas such as speech, voice, language and swallowing in children and adults. Employment is in private practice, aged care settings, private and public hospitals, workplaces, community-based agencies, schools, rehabilitation centres and chronic health management clinics. The first two-years of the course combine evidence-based studies in speech pathology with a broad understanding of biomedical and health science, linguistics and psychology to develop the professional competencies essential for ethical and safe practice, high quality care and the skills to work in multidisciplinary teams. The final two years focus on the development of advanced knowledge in speech pathology and clinical practice, which are used during clinical placements to treat patients in the community.

The Honours program is available to high achieving students in the Bachelor of Speech Pathology. Honours is a key early step in the pathway to leadership in the profession and opens up the world of research, without taking any longer to complete the degree. Students apply for entry into the Honours program in year three of the combined degree. Students complete an honours thesis during the fourth year of the program, along-side the core units of the Bachelor of Speech Pathology, including clinical placements. The thesis presents research that addresses speech pathology problems.

Study Mode

Four years full-time.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal

Admission

NSW HSC or equivalent

Assumed knowledge: any 2 units of English

English Proficiency requirements: IELTS (academic version) 6.5 overall score, minimum 6.0 in each subtest.

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

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

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

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

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

Special Requirements

ALL STUDENTS: To be eligible to enrol in a unit and attend a health-related placement in your course, students must meet Western Sydney University course requirements AND Special Legislative Requirements to be assessed in their first year of study against the following: 1. National Criminal History Check: Students must have a current (expiring 3 years from date of issue) check valid for their entire course. A valid National Criminal history check must be an Australia wide check, include the student's full name matching their Student ID card and date of birth and not have any offences listed. If a student has a criminal history identified on their check, they must provide a Clinical Placement Authority Card (CPAC) or conditional letter from the NSW HealthShare Employment Screening and Review Unit (https://www.health.nsw.gov.au/careers/student_clearance/Documents/appendix-10-student-application.pdf). International students must additionally have a translated International Police Check or statutory declaration. 2. A NSW Working with Children Check (WWCC) clearance letter issued under the category of volunteer valid for their entire course. 3. A current approved first aid certificate valid for their entire course, approved provider courses can be found at <http://training.gov.au>. 4. A completed vaccination/immunisation card with all serology results containing expiry dates and currency must be maintained by the student to ensure compliance for their entire course. 5. NSW Undertaking/Declaration form 6. Completed any additional health forms required (such as NSW Health Code of Conduct, Health Student Undertaking/Declaration and Tuberculosis (TB) Assessment Tool) 7. Relevant Local Health District specific documentation as requested. Contact your School for further details. Resources are also available on the Placement Hubwebsite: https://www.westernsydney.edu.au/learning_futures/home/placements_hub/placements_hub/student_compliance

FOR ONLINE STUDENTS: To be eligible to enrol in a unit and attend a health-related placement in your course, students must meet Western Sydney University course requirements AND Special Legislative Requirements in your state, to be assessed in their first year of study, against the following: 1. National Criminal History Check: Students must have a current check valid for their entire course. A valid National Criminal history check must be an Australia wide check, include the student's full name matching their Student ID card and date of birth and not have any offences listed. If a student has a criminal history identified on their check, they must provide a clearance or authority document or conditional letter from their relevant authorised state organisation. International students must additionally have a translated International Police Check or statutory declaration. 2. A Working with Children Check (WWCC) clearance letter or state equivalent, valid for their entire course. 3. A current approved first aid certificate valid for their entire course, approved provider courses can be found at <http://training.gov.au>. 4. A completed vaccination/immunisation card with all serology results attached - currency must be maintained by the student to ensure

compliance for their entire course. 5. Undertaking/ Declaration form (or state equivalent documents) 6. Additional forms as required per state related to, but not limited to, Tuberculosis Assessment tool, Hepatitis B statutory declaration form, Signed Code of Conduct, Student Deed Poll and all other state equivalent documents as required. Contact your school for further details. Resources are also available on the Placement Hub web page (https://www.westernsydney.edu.au/placements_hub)

Course Structure

Qualification for this award requires the successful completion of 320 credit points which includes the units listed below.

Recommended Sequence

Year 1

Autumn session

400870.2	Population Health and Society
400871.2	Professional Health Competencies
400868.3	Human Anatomy and Physiology 1
401300.1	Introduction to Speech Pathology Practice

Spring session

400732.2	Communication in Health
400863.2	Foundations of Research and Evidence-Based Practice
400869.3	Human Anatomy and Physiology 2
101183.3	Psychology: Behavioural Science

Year 2

Autumn session

400866.3	Culture, Diversity and Health
400864.3	Research Methods (Quantitative and Qualitative)
101945.2	Introduction to Linguistics
401301.1	Child Speech and Language Development

Spring session

300897.2	Anatomy of the Head and Neck
401302.1	Adult Speech and Language
401303.1	Speech Impairments in Children
401304.1	Speech and Hearing Across the Lifespan

Year 3

Autumn session

101677.4	Cognitive Processes
401305.1	Swallowing Assessment and Management
401306.1	Alternative and Augmentative Communication Systems
401307.1	Clinical Practice 1

Note: Students enrol in the Bachelor of Speech Pathology and apply for entry to the Honours program from Year 3, Spring

Spring session

400865.3	Evidence-Based Practice
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300754.3	Neuroanatomy
401308.1	Fluency and Voice
401309.1	Clinical Practice 2

Year 4

Autumn session

401310.1	Complex Communication Needs
401311.1	Clinical Practice 3

And two electives

Spring session

401312.1	Professional Issues
401313.1	Clinical Practice 4

And two electives

Bachelor of Speech Pathology (Honours)

4764.1

Students apply for entry to the Bachelor of Speech Pathology (Honours) from Year 3, Spring of the Bachelor of Speech Pathology

The Honours program is available to high achieving students in the Bachelor of Speech Pathology. Honours is a key early step in the pathway to leadership in the profession and opens up the world of research, without taking any longer to complete the degree. Students apply for entry into the Honours program in year three of the combined degree. Students complete an honours thesis during the fourth year of the program, along-side the core units of the Bachelor of Speech Pathology, including clinical placements. The thesis presents research that addresses speech pathology problems.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal

Special Requirements

ALL STUDENTS: To be eligible to enrol in a unit and attend a health-related placement in your course, students must meet Western Sydney University course requirements AND Special Legislative Requirements to be assessed in their first year of study against the following: 1. National Criminal History Check: Students must have a current (expiring 3 years from date of issue) check valid for their entire course. A valid National Criminal history check must be an Australia wide check, include the student's full name matching their Student ID card and date of birth and not have any offences listed. If a student has a criminal history identified on their check, they must provide a Clinical Placement Authority Card (CPAC) or conditional letter from the NSW HealthShare Employment Screening and Review Unit (https://www.health.nsw.gov.au/careers/student_clearance/Documents/appendix-10-student-application.pdf). International students must additionally have a translated International Police Check or statutory declaration. 2. A NSW Working with Children Check (WWCC) clearance letter issued under the category of volunteer valid for their entire course. 3. A current approved first aid certificate valid

for their entire course, approved provider courses can be found at <http://training.gov.au>. 4. A completed vaccination/immunisation card with all serology results containing expiry dates and currency must be maintained by the student to ensure compliance for their entire course. 5. NSW Undertaking/Declaration form 6. Completed any additional health forms required (such as NSW Health Code of Conduct, Health Student Undertaking/Declaration and Tuberculosis (TB) Assessment Tool) 7. Relevant Local Health District specific documentation as requested. Contact your School for further details. Resources are also available on the Placement Hub website: https://www.westernsydney.edu.au/learning_futures/home/placements_hub/placements_hub/student_compliance

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

1. National Criminal History Check: Students must have a current check valid for their entire course. A valid National Criminal history check must be an Australia wide check, include the student's full name matching their Student ID card and date of birth and not have any offences listed. If a student has a criminal history identified on their check, they must provide a clearance or authority document or conditional letter from their relevant authorised state organisation. International students must additionally have a translated International Police Check or statutory declaration.
2. A Working with Children Check (WWCC) clearance letter or state equivalent, valid for their entire course.
3. A current approved first aid certificate valid for their entire course, approved provider courses can be found at <http://training.gov.au>.
4. A completed vaccination/immunisation card with all serology results attached - currency must be maintained by the student to ensure compliance for their entire course.
5. Undertaking/Declaration form (or state equivalent documents)
6. Additional forms as required per state related to, but not limited to, Tuberculosis Assessment tool, Hepatitis B statutory declaration form, Signed Code of Conduct, Student Deed Poll and all other state equivalent documents as required. Contact your school for further details. Resources are also available on the Placement Hub web page (https://www.westernsydney.edu.au/placements_hub)

Course Structure

Qualification for this award requires the successful completion of 340 credit points which includes the units listed below.

[Note: Students enrol in the Bachelor of Speech Pathology and apply for entry to the Honours program from Year 3, Spring]

Recommended Sequence

Year 1

Autumn session

400870.2	Population Health and Society
400871.2	Professional Health Competencies
400868.3	Human Anatomy and Physiology 1
401300.1	Introduction to Speech Pathology Practice

Spring session

400732.2	Communication in Health
400863.2	Foundations of Research and Evidence-Based Practice
400869.3	Human Anatomy and Physiology 2
101183.3	Psychology: Behavioural Science

Year 2

Autumn session

400866.3	Culture, Diversity and Health
400864.3	Research Methods (Quantitative and Qualitative)
101945.2	Introduction to Linguistics
401301.1	Child Speech and Language Development

Spring session

300897.2	Anatomy of the Head and Neck
401302.1	Adult Speech and Language
401303.1	Speech Impairments in Children
401304.1	Speech and Hearing Across the Lifespan

Year 3

Autumn session

101677.4	Cognitive Processes
401305.1	Swallowing Assessment and Management
401306.1	Alternative and Augmentative Communication Systems
401307.1	Clinical Practice 1

Spring session

400944.2	Evidence-Based Practice (Advanced)
300754.3	Neuroanatomy
401308.1	Fluency and Voice
401309.1	Clinical Practice 2

Year 4

Autumn session

401310.1	Complex Communication Needs
401311.1	Clinical Practice 3
400945.1	Honours Research 1

And one elective

Spring session

401312.1	Professional Issues
401313.1	Clinical Practice 4
400946.1	Honours Research 2

And one elective

Bachelor of Sport Development

4741.2

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

applies to students whose commencement year for this course is Autumn 2019.

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

The Bachelor of Sport Development takes a multidisciplinary approach to prepare graduates for careers in the sport and active recreation industry. They can pursue a range of roles, including development, promotion and management, in areas such as community sports and recreation organisations and facilities, professional sport organisations, community engagement teams, state and national sporting organisations and not for profit sport for social change agencies. The program includes studies in physical activity, exercise and health promotion, sport coaching, psychology, sport management, and capacity building through community projects.

Study Mode

Three years full-time or six years part-time

Location

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

Admission

Assumed knowledge: Any two units of English

Recommended studies: Personal development, Health and Physical Education (PDHPE); Business studies; Economics Applications from Australian and New Zealand citizens and holders of permanent resident visas must be made via the Universities Admissions Centre (UAC). Use the links below to apply via UAC or Western Sydney University. Applications made directly to Western Sydney do not have an application fee.

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

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

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

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

Special Requirements

During the first year of enrolment in this course, in order to enrol in particular units and prior to attending any internship or applied project placement students must have: 1. National Police Certificate submitted to Student Central 2.

Child Protection Course 3. Working with Children Check 4. First Aid Certificate (including Cardiopulmonary Resuscitation)

Course Structure

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequence below.

Recommended Sequence

Start year

Year 1

Autumn session

400870.2	Population Health and Society
400880.2	Fundamentals of Exercise Science
201000.1	The World of Sport Business
401243.1	Sport for Social Development

Spring session

101900.2	Working with Communities
400808.4	Outdoor Recreation
400863.2	Foundations of Research and Evidence-Based Practice
200996.1	Sport Entertainment

Year 2

Autumn session

400866.3	Culture, Diversity and Health
200990.1	Special Event Management
400244.3	Introduction to Leisure and Recreation Theory

And one elective

Spring session

400892.2	Physical Activity, Nutrition and Health
401283.1	Community Sport Development
400798.3	PDHPE: Games for Diverse Groups

And one elective

Year 3

Autumn session

401055.2	Sport and Exercise Psychology
401244.1	Sport Development Internship
200998.1	Strategic Sport Leadership
400894.2	Contemporary Youth Health Issues

Spring session

201001.1	Our Sporting Future
401246.1	Sport Development Applied Project

And two electives

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Students who maintain a GPA of 5 or higher may use elective units toward obtaining an additional approved sub-major in Critical Thinking.

SM3083.1 Critical Thinking

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies. Students can apply for an elective sub-major via MySR.

Bachelor of Sustainable Agriculture and Food Security

3726.3

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

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

Opportunities are rapidly emerging for entrepreneurs to lead a new food future. Immersed in an approach that integrates social, economic and environmental values, students will view plant and animal production from consumer contexts to explore personal and community perceptions about food sustainability. This innovative degree merges topics of agriculture, food and health to empower students to design solutions for international development, community education and the urban-rural interface. Throughout study, engagement with industry and community will inspire students to take action towards a more sustainable food future. The course includes disciplines of natural science, social science and business studies.

Study Mode

Three years full-time or six years part-time

Location

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

Admission

Assumed Knowledge: Any two units of Mathematics and Science or equivalent.

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

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

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

directly to Western Sydney University should also use the information provided on the UAC website.

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

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

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

Course Structure

Qualification for this award requires the successful completion of 240 credit points which include the units listed in the recommended sequence below.

Recommended Sequence

Majors

Students may choose to major in Natural Science, Social Sciences or Business (see links below), or may choose a general pathway.

M4016.1	Natural Science
M4017.1	Social Sciences
M4018.1	Business

General Pathway - Start year Intake

Year 1

Autumn session

300804.1	Feeding the Planet
300811.1	Scientific Literacy
300802.1	Biodiversity
300808.2	Introductory Chemistry

Spring session

300823.1	Soils
300831.3	Quantitative Thinking
300805.1	Food Science 1
301096.1	Horticultural Production Systems

Year 2

Autumn session

301097.1	Greenhouse Technology for Food Sustainability
300840.1	Environmental Planning and Climate Change

Choose one of

300931.1	Integrated Science
101331.2	Issues in World Development: Rich World, Poor World
200083.2	Marketing Principles

And one elective

Spring session

- 300791.1** Sustainable Food Production
300790.1 Agriculture, Food and Health
300932.1 Natural Science Research Methods

And one elective

Year 3**1H/Autumn session**

- 300913.1** Field Project 1
301098.1 Analysis of Agricultural Supply and Demand

Choose one of

- 200862.1** Creating Change and Innovation
300921.1 Plant Health and Biosecurity
101569.2 Sustainable Futures

And one elective

2H/Spring session

- 300914.1** Field Project 2

Choose two of

- 200158.4** Business, Society and Policy
101595.2 Community and Social Action
200815.2 Globalisation and Sustainability
300869.1 Postharvest
300961.3 Social Computing
300870.1 Water in the Landscape

And one elective

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

- 300811.1** Scientific Literacy
300805.1 Food Science 1
301096.1 Horticultural Production Systems

And one elective

Autumn session

- 300804.1** Feeding the Planet
300831.3 Quantitative Thinking
300802.1 Biodiversity
300808.2 Introductory Chemistry

Year 2**Spring session**

- 300791.1** Sustainable Food Production
300790.1 Agriculture, Food and Health
300932.1 Natural Science Research Methods
300823.1 Soils

1H/Autumn session

- 300913.1** Field Project 1
301097.1 Greenhouse Technology for Food Sustainability

Choose one of

- 300931.1** Integrated Science
101331.2 Issues in World Development: Rich World, Poor World
200083.2 Marketing Principles

And one elective

Year 3**2H/Spring session**

- 300914.1** Field Project 2

Choose two of

- 200158.4** Business, Society and Policy
101595.2 Community and Social Action
200815.2 Globalisation and Sustainability
300869.1 Postharvest
300961.3 Social Computing
300870.1 Water in the Landscape

And one elective

Autumn session

- 301098.1** Analysis of Agricultural Supply and Demand
300840.1 Environmental Planning and Climate Change

Choose one of

- 300921.1** Plant Health and Biosecurity
101569.2 Sustainable Futures
200862.1 Creating Change and Innovation

And one elective

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective sub-major via MySR.

Bachelor of Traditional Chinese Medicine**4710.1**

This course prepares graduates for careers as practitioners of Traditional Chinese Medicine. Traditional Chinese medicine practitioners are usually either self-employed in private practice or work as a member of a team in a clinic that offers a range of therapies. They practice as acupuncturists and treating clients using Chinese herbal medications. There are also opportunities in medical research, product development, management and sales roles in pharmaceutical and herbal companies.

The course in Traditional Chinese Medicine is offered as a 4-year Bachelor of Traditional Chinese Medicine. The first three years of the program combine studies in traditional Chinese medicine, acupuncture and Chinese herbal medicine with a broad understanding of biomedicine and various health science fields to develop the professional competencies important for ethical and safe practice and high quality care and the skills to work in multidisciplinary

teams. The final year focuses predominately on practical experience and specialised areas. Part of the clinical experience can be taken through an intensive clinical placement in China. Evidence-based practice is one of the most important trends in healthcare today and a strong feature of the program.

Study Mode

Four years full-time

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal

Accreditation

The Bachelor of Traditional Chinese Medicine has been approved as meeting the accreditation requirements of the Chinese Medicine Board of Australia to qualify graduates for general registration in the three divisions of Acupuncturist, Chinese Herbal Medicine Practitioner and Chinese Herbal Dispenser.

Admission

Assumed knowledge: any 2 units of English.

Recommended studies: Biology

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

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

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

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

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

Special Requirements

In order to enrol in Second Year Autumn units, all students must have: National Police Certificate and a Working with Children Check Student Declaration. In order to enrol in Second Year Spring units, all students must have a First Aid Certificate (including cardiopulmonary resuscitation). To be eligible to undertake clinical placements in public hospitals, students must comply with vaccination requirements and be prepared to submit a completed Adult Immunisation Card to placement institutions. NSW Health can provide details of necessary vaccinations. To meet NSW health requirements for clinical placements, second year students will be required to attend a 'bulk compliance'

appointment to have their special requirements verified by NSW Health staff. To be eligible to undertake field/work/practice placements, students must also comply with the NSW Health Records and Information Privacy Act (2004) and complete a relevant declaration.

Course Structure

Qualification for this award requires the successful completion of 320 credit points which include the units listed in the recommended sequence below.

Recommended Sequence

Year 1

Autumn session

400346.2	Traditional Chinese Medicine 1
400868.3	Human Anatomy and Physiology 1
400866.3	Culture, Diversity and Health
400871.2	Professional Health Competencies

Spring session

400348.3	Traditional Chinese Medicine 2
400869.3	Human Anatomy and Physiology 2
400732.2	Communication in Health
300816.1	Cell Biology

Year 2

Autumn session

400352.3	Traditional Chinese Medicine 3
400138.3	Pathophysiology 1
400874.4	Channels and Points 1
400876.3	Chinese Materia Medica 1

Spring session

400863.2	Foundations of Research and Evidence-Based Practice
400267.3	Pathophysiology 2
400875.2	Channels and Points 2
400877.3	Chinese Materia Medica 2

Year 3

Autumn session

400864.3	Research Methods (Quantitative and Qualitative)
400878.3	Chinese Medicinal Formulas
400354.3	Traditional Chinese Medicine Practice 1
400873.2	Acupuncture Techniques

Spring session

400981.2	Clinical Pharmacology
400879.1	Clinical Assessment Methods
400865.3	Evidence-Based Practice
400356.2	Traditional Chinese Medicine Practice 2

At this point, students may exit with the Bachelor of Health Science

Year 4**Autumn session**

401098.2	Chinese Internal Medicine 1
401099.2	Specialities in Traditional Chinese Medicine 1
401100.2	Classical Texts in Chinese Medicine
401101.2	Traditional Chinese Medicine Practice 3

Spring session

401102.2	Chinese Internal Medicine 2
401103.1	Specialities in Traditional Chinese Medicine 2
401104.1	Block Clinical Practicum
401105.2	Traditional Chinese Medicine Practice 4

Diploma in Health Science/Bachelor of Health Science

6000.1

This course provides a broad introduction to the health sciences with opportunities to specialise in one or two of the following areas: health promotion, health services management, therapeutic recreation or public health. Students who choose to enrol into two specialisations will identify one area as their Key Program and the second as their Major. The Key Program is considered the primary specialisation. The double specialisation is designed to increase students' areas of expertise and employability. Public Health is the only fully online key program and students who choose the Public Health key program and a major in one of the other three specialisations will be required to attend on-campus classes for the second area of study.

The first year of this course is delivered by Western Sydney University The College as an agent of Western Sydney University via extended face-to-face hours in smaller learning environments.

A Diploma in Health Science is also available at the end of the first year of the course.

For more information on Western Sydney University, The College, please refer to their web site.

For course advice during your first year of study, please use the contact below under 'Course Advice'. For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Health Science.

Study Mode

Three years full-time, six years part-time.

Location

Campus	Attendance	Mode
Bankstown Campus	Full Time	Internal
Bankstown Campus	Part Time	Internal
Campbelltown Campus	Full Time	Internal
Campbelltown Campus	Part Time	Internal
Online	Full Time	Multi Modal
Online	Part Time	Multi Modal

Campus

Penrith Campus	Full Time	Internal
Penrith Campus	Part Time	Internal
The College - Nirimba Education Precinct	Full Time	Internal
The College - Nirimba Education Precinct	Part Time	Internal

Attendance Mode**Accreditation**

The Bachelor of Health Science (Health Service Management) has Professional Accreditation with the Australasian College of Health Service Management (ACHSM). The Bachelor of Health Science (Therapeutic Recreation) has been granted accreditation from Diversional Therapy Australia (DTA).

Admission

For more information on applying please see link to The College admission pages below.

Domestic students are required to have

- Completed an English unit in the NSW Higher School Certificate, Or
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher.

Met other entry requirements such as

- An ATAR identified prior to the offer of a place, Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

International students must satisfy one of the following language requirements

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed the College EAP 4 course with a 50% pass Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher for which advanced standing can be applied for.

Academic Entry Requirements vary according to country of origin. However, in general

- Completion of Year 12 or its equivalent is the minimum entry requirement Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

Special Requirements

For students enrolled in key programs Health Promotion, Therapeutic Recreation and Health Services Management prior to second year of their program (units Workplace Learning 1 and 2, or Health Promotion Practice 1 and 2, or Health Services Management Practice and Health services Financial Management) must have: 1) Student Undertaking Form and National Police Certificate; 2) Working with Children Check Student Declaration; 3) Senior first aid certificate which includes cardiopulmonary resuscitation; 4)

All documentation to comply with the NSW Health Occupational Screening and Vaccination Against Infectious Diseases Policy including completion of an adult vaccination card.

Course Structure

Qualification for this award requires the successful completion of 260 credit points which include the units listed in the recommended sequence below.

Western Sydney University The College Units

Bankstown, Penrith and Nirimba Campus

Please note that all campuses may not have intakes each year.

Year 1

Preparatory units

700056.3	Academic English (WSTC Prep)
700190.2	Fundamentals of Health Science (WSTC Prep)
700170.2	Tertiary Study Skills in Health Science (WSTC Prep)

Students must pass the following University level units

700065.3	Approaches to Health Promotion (WSTC)
700062.3	Communication in Health (WSTC)
700064.2	Foundations of Research and Evidence-Based Practice (WSTC)
700061.3	Introduction to Human Biology (WSTC)
700066.3	Population Health and Society (WSTC)
700067.2	Professional Health Competencies (WSTC)
700075.2	Professional Pathways in Health Science (WSTC)
700060.3	Psychology and Health (WSTC)

Students may exit at this point and graduate with the Diploma in Health Science following a passing grade in all of the above units. Students who progress onto Year Two may also be awarded the Diploma if they gain a passing grade in all of the above units.

- Students must pass all College Preparatory units before progressing to the Year Two units.
- Students must pass at least 70 credit points of University level units in Year One before progressing to the Year Two units.

Western Sydney University Units

For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Health Science.

Campbelltown and Penrith Campus and Online

Students may elect to complete a Single Specialisation or Double Specialisation.

Single Specialisation in Health Science

Students must select and enrol in one of the following specialisations

KT4003.1	Health Promotion
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KT4005.1	Health Services Management
KT4006.1	Therapeutic Recreation
KT4007.1	Public Health

Majors

These Majors are available to Health Promotion, Health Service Management, Therapeutic Recreation and Public Health.

M4001.1	Health Promotion
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The Health Promotion major is not available to students enrolled in the Health Promotion Key Program of the Bachelor of Health Science.

M4002.1	Health Services Management
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The Health Services Management major is not available to students enrolled in the Health Services Management Key Program of the Bachelor of Health Science.

M4000.1	Therapeutic Recreation
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The Therapeutic Recreation major is not available to students enrolled in the Therapeutic Recreation Key Program of the Bachelor of Health Science.

M4003.1	Public Health
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The Public Health Major is not available to students enrolled in the Public Health Key Program of the Bachelor of Health Science.

The sharing of some common units across the key programs detailed above offers students the opportunity to achieve the Bachelor of Health Science with a Key Program and a major. Please note that the Key Program will appear on the testamur whilst the major will appear on the transcript.

Double Specialisation in Health Science

The sharing of some common units across the specialisations detailed above offers students the opportunity to achieve the Bachelor of Health Science with a specialisation and a major.

Bachelor of Health Science (Therapeutic Recreation) with Health Promotion Major

Or

Bachelor of Health Science (Health Promotion) with Therapeutic Recreation Major

Year 2

Autumn session

400864.3	Research Methods (Quantitative and Qualitative)
400866.3	Culture, Diversity and Health
400244.3	Introduction to Leisure and Recreation Theory
400789.3	Leisure Education Programming and Mental Health

Spring session

401195.1	Health Politics, Policy and Planning
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- 400968.2** Professional Practice in Aged Care and Disability
400246.4 Workplace Learning 1 (Therapeutic Recreation)
400285.2 Public Health

Year 3**Summer session**

- 400249.2** Ethical and Legal Issues in Health Care

Autumn session

- 400252.3** Workplace Learning 2 (Community Placement)
400275.2 Health Planning Project
400784.4 Health Promotion Practice 1

Spring session

- 400785.2** Health Promotion Practice 2
400286.4 Injury Prevention
400786.4 Professional Transition Project
400254.2 Therapeutic Recreation Professional Project

Bachelor of Health Science (Therapeutic Recreation) with Health Services Management Major

Or

Bachelor of Health Science (Health Services Management) with Therapeutic Recreation Major**Year 2****Autumn session**

- 400864.3** Research Methods (Quantitative and Qualitative)
400866.3 Culture, Diversity and Health
400244.3 Introduction to Leisure and Recreation Theory
400789.3 Leisure Education Programming and Mental Health

Spring session

- 401195.1** Health Politics, Policy and Planning
400968.2 Professional Practice in Aged Care and Disability
400246.4 Workplace Learning 1 (Therapeutic Recreation)
400277.4 Health Services Management

Year 3**Summer session**

- 400249.2** Ethical and Legal Issues in Health Care

Autumn session

- 400252.3** Workplace Learning 2 (Community Placement)
400275.2 Health Planning Project
400787.3 Health Services Management Practice

Spring session

- 400279.4** Health Services Financial Management
400788.4 Health Services Workforce Management
400786.4 Professional Transition Project
400254.2 Therapeutic Recreation Professional Project

Bachelor of Health Science (Health Promotion) with Health Services Management Major

Or

Bachelor of Health Science (Health Services Management) with Health Promotion Major**Year 2****Autumn session**

- 400864.3** Research Methods (Quantitative and Qualitative)
400866.3 Culture, Diversity and Health

And two electives

Recommended Elective Unit

- 400244.3** Introduction to Leisure and Recreation Theory

Spring session

- 401195.1** Health Politics, Policy and Planning
400286.4 Injury Prevention
400285.2 Public Health
400277.4 Health Services Management

Year 3**Summer session**

- 400249.2** Ethical and Legal Issues in Health Care

Autumn session

- 400784.4** Health Promotion Practice 1
400275.2 Health Planning Project
400787.3 Health Services Management Practice

Spring session

- 400785.2** Health Promotion Practice 2
400788.4 Health Services Workforce Management
400786.4 Professional Transition Project
400279.4 Health Services Financial Management

Bachelor of Health Science (Health Promotion) with Public Health Major

Or

Bachelor of Health Science (Public Health) with Health Promotion Major

Year 2

Autumn session

- 400864.3** Research Methods (Quantitative and Qualitative)
400866.3 Culture, Diversity and Health
300872.1 Epidemiology

And one elective

Spring session

- 401195.1** Health Politics, Policy and Planning
400286.4 Injury Prevention
400285.2 Public Health

And one elective

Recommended elective

- 400277.4** Health Services Management

Year 3

Autumn session

- 400275.2** Health Planning Project
400784.4 Health Promotion Practice 1
401194.2 Contemporary Issues in Public Health

And one elective

Spring session

- 400785.2** Health Promotion Practice 2
400249.2 Ethical and Legal Issues in Health Care
400786.4 Professional Transition Project
401193.1 Public Health Practice

Bachelor of Health Science (Health Services Management) with Public Health Major

Or

Bachelor of Health Science (Public Health) with Health Services Management Major

Year 2

Autumn session

- 400864.3** Research Methods (Quantitative and Qualitative)
400866.3 Culture, Diversity and Health
300872.1 Epidemiology

And one elective

Spring session

- 401195.1** Health Politics, Policy and Planning
400285.2 Public Health

- 400277.4** Health Services Management

And one elective

Year 3

Summer session

- 400249.2** Ethical and Legal Issues in Health Care

Autumn session

- 400275.2** Health Planning Project
400787.3 Health Services Management Practice
401194.2 Contemporary Issues in Public Health

Spring session

- 400279.4** Health Services Financial Management
400788.4 Health Services Workforce Management
400786.4 Professional Transition Project
401193.1 Public Health Practice

Bachelor of Health Science (Therapeutic Recreation) with Public Health Major

Or

Bachelor of Health Science (Public Health) with Therapeutic Recreation Major

Year 2

Autumn session

- 400864.3** Research Methods (Quantitative and Qualitative)
300872.1 Epidemiology
400244.3 Introduction to Leisure and Recreation Theory
400866.3 Culture, Diversity and Health

Spring session

- 401195.1** Health Politics, Policy and Planning
400968.2 Professional Practice in Aged Care and Disability
400246.4 Workplace Learning 1 (Therapeutic Recreation)
400285.2 Public Health

Year 3

Autumn session

- 400789.3** Leisure Education Programming and Mental Health
400252.3 Workplace Learning 2 (Community Placement)
400275.2 Health Planning Project
401194.2 Contemporary Issues in Public Health

Spring session

- 400254.2** Therapeutic Recreation Professional Project
400249.2 Ethical and Legal Issues in Health Care
400786.4 Professional Transition Project
401193.1 Public Health Practice

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Diploma in Health Science/Bachelor of Health Science (Health and Physical Education)

6001.1

The Health and Physical Education (HPE) program brings together a comprehensive foundation of health sciences, understanding of physical activity, and skills in interacting with people. The course explores challenging areas of personal development, including youth health issues, sexuality, drugs, psychology and risk-taking behaviours, as well as general health science, including human biology, health systems, health promotion and research. Facilities are state of the art, including a new gymnasium and a renovated dance and gym studio, and practical experience is a strong feature of the program. The program is a popular pathway to a Master of Teaching degree, and then on to a teaching career. Teaching opportunities can be extended beyond HPE by studying electives, such as science and mathematics, where students gain a second teaching area in a subject of their choice. Graduates also work as personal trainers, sports coaches, research assistants, and community-based recreation.

The first year of this course is delivered by Western Sydney University The College as an agent of Western Sydney University via extended face-to-face hours in smaller learning environments.

A Diploma in Health Science is also available at the end of the first year of the course.

For more information on Western Sydney University, The College, please refer to their web site.

For course advice during your first year of study, please use the contact below under 'Course Advice'. For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Health Science (Health and Physical Education).

Study Mode

Three years full-time or six years part-time.

Location

Campus	Attendance	Mode
Bankstown Campus	Full Time	Internal
Bankstown Campus	Part Time	Internal
Penrith Campus	Full Time	Internal
Penrith Campus	Part Time	Internal
The College - Nirimba Education Precinct	Full Time	Internal

Campus

The College - Nirimba Education Precinct

Attendance Mode

Part Time Internal

Admission

For more information on applying please see link to The College admission pages below.

Domestic students are required to have

- Completed an English unit in the NSW Higher School Certificate, Or
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher.

Met other entry requirements such as

- An ATAR identified prior to the offer of a place, Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

International students must satisfy one of the following language requirements

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed the College EAP 4 course with a 50% pass Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher for which advanced standing can be applied for.

Academic Entry Requirements vary according to country of origin. However, in general

- Completion of Year 12 or its equivalent is the minimum entry requirement Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

Special Requirements

All students must have: 1. Child Protection Certificate, 2. Working with Children Check, 3. First Aid Certificate.

Course Structure

Qualification for this award requires the successful completion of 260 credit points which include the units listed in the recommended sequence below.

Western Sydney University The College Units

Bankstown, Penrith and Nirimba Campus

Please note that all campuses may not have intakes each year.

Year 1

Preparatory units

700056.3	Academic English (WSTC Prep)
700190.2	Fundamentals of Health Science (WSTC Prep)

700170.2 Tertiary Study Skills in Health Science (WSTC Prep)

Students must pass the following University level units

700065.3 Approaches to Health Promotion (WSTC)
700062.3 Communication in Health (WSTC)
700064.2 Foundations of Research and Evidence-Based Practice (WSTC)
700073.2 Fundamentals of Exercise Science (WSTC)
700061.3 Introduction to Human Biology (WSTC)
700067.2 Professional Health Competencies (WSTC)
700066.3 Population Health and Society (WSTC)
700060.3 Psychology and Health (WSTC)

Students may exit at this point and graduate with the Diploma in Health Science following a passing grade in all of the above units. Students who progress onto Year Two may also be awarded the Diploma if they gain a passing grade in all of the above units.

- Students must pass all College Preparatory units before progressing to the Year Two units.
- Students must pass at least 70 credit points of University level units in Year One before progressing to the Year Two units.

Western Sydney University Units

For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Health Science (Health and Physical Education).

Penrith Campus

Start Year Intake

Option 1

Three units in Autumn and Spring (Western Sydney University Year 1), progressing to full-time study load in Western Year 2

Based on successful completion of all 8 Western Sydney University The College units - Students will complete 3 units in their first and second semester at Western, before transitioning to a 4 unit study load for the remainder of their degree.

Option 1 would allow students to complete the remainder of their degree in 2.5 years.

Note: Students may be able to accelerate course completion (finishing in two years) by completing one or two units (elective or core) in the Western Summer period. Students could also pick up a second elective unit in the first Autumn session to take them to a four unit study load in their second Western semester.

Advice on this accelerated option will be case-by-case, based on available units and prerequisites.

Year 2

Autumn session

401055.2 Sport and Exercise Psychology
400866.3 Culture, Diversity and Health

And one elective

Spring session

400808.4 Outdoor Recreation
400798.3 PDHPE: Games for Diverse Groups
400892.2 Physical Activity, Nutrition and Health

Year 3

Autumn session

401169.2 Coaching Sport and Recreation Activities
400894.2 Contemporary Youth Health Issues
400886.3 Motor Control and Skill Acquisition

And one elective

Spring session

401239.1 Introduction to Physical Cultural Studies
400891.2 Movement and Skill Development
400896.1 Gymnastics and Dance
401056.2 Applied Exercise Science for Personal Trainers and Coaches

Year 3

Summer or Autumn session

Two electives

Notes on Option 1

- Students must hold a valid / current First Aid certificate (registered on their student record) and must have completed Child Protection Training to enrol in Games for Diverse Groups
- Students who have already completed Professional Health Competencies at Western Sydney University The College will need to email (hpe@westensydney.edu.au) to register for Child Protection Training in Autumn semester which is run through Professional Health Competencies in the HPE program
- Allows for a smooth progression into Western Sydney University and eases students into full-time study load
- Depending on units chosen it may be possible to complete all units by end of Summer, but not all units are offered in Summer session.
- Elective 3 and 4 could possibly be completed in Summer semester

Option 2

Three units in Autumn and four units in Spring (Western Sydney University Year 1), progressing to full-time study load in second half of Western Year 1

Based on successful completion of all 8 WSTC units - Students will complete three units in their first semester at Western, before transitioning to a four unit study load for the remainder of their degree.

Option 2 would allow students to complete the remainder of their degree in 2.5 years

Note: Students may be able to accelerate course completion (finishing in two years) by completing one or two units (elective or core) in the Western Summer period. Students could also pick up a second elective unit in the

first Autumn session to take them to a four unit study load in their second Western semester.

Advice on this accelerated option will be case-by-case, based on available units and prerequisites.

Year 2

Autumn session

401055.2 Sport and Exercise Psychology
400866.3 Culture, Diversity and Health

And one elective

Spring session

400808.4 Outdoor Recreation
400798.3 PDHPE: Games for Diverse Groups
400892.2 Physical Activity, Nutrition and Health

And one elective

Year 3

Autumn session

401169.2 Coaching Sport and Recreation Activities
400894.2 Contemporary Youth Health Issues
400886.3 Motor Control and Skill Acquisition

And one elective

Spring session

401239.1 Introduction to Physical Cultural Studies
400891.2 Movement and Skill Development
400896.1 Gymnastics and Dance
401056.2 Applied Exercise Science for Personal Trainers and Coaches

Year 3

Summer or Autumn session

Two electives

Notes on Option 2

- Students MUST hold a valid / current First Aid certificate (registered on their student record) and MUST have completed Child Protection Training to enrol in Games for Diverse Groups.
- Students who have already completed Professional Health Competencies at Western Sydney University The College will need to email (hpe@westensydney.edu.au) to register for Child Protection Training in Autumn semester which is run through Professional Health Competencies in the HPE program.
- Allows for a smooth progression into Western Sydney University and eases students into full-time study load
- Depending on units chosen, it may be possible to complete all units by end of Summer, but not all units are offered in Summer session
- Elective 3 and 4 could possibly be completed in Summer semester

Option 3

Four units in Autumn and Spring (Western Sydney University Year 1), full-time study load from start of Western Year 1

Based on successful completion of all 8 Western Sydney University The College units - Students will complete four units in their first semester at Western and for the remainder of their degree.

Option 3 would allow students to complete the remainder of their degree in 2 years.

Year 2

Autumn session

401055.2 Sport and Exercise Psychology
400866.3 Culture, Diversity and Health

And two electives

Spring session

400808.4 Outdoor Recreation
400798.3 PDHPE: Games for Diverse Groups
400892.2 Physical Activity, Nutrition and Health
400891.2 Movement and Skill Development

Year 3

Autumn session

401169.2 Coaching Sport and Recreation Activities
400894.2 Contemporary Youth Health Issues
400886.3 Motor Control and Skill Acquisition

And one elective

Spring session

401239.1 Introduction to Physical Cultural Studies
400896.1 Gymnastics and Dance
401056.2 Applied Exercise Science for Personal Trainers and Coaches

And one elective

Notes on Option 3

- Students must hold a valid / current First Aid certificate (registered on their student record) and must have completed Child Protection Training to enrol in Games for Diverse Groups
- Students who have already completed Professional Health Competencies at Western Sydney University The College will need to email (hpe@westensydney.edu.au) to register for Child Protection Training in Autumn semester which is run through Professional Health Competencies in the HPE program
- Only recommended for students who have performed well in previous units at WSTC and have decided on their elective units and sub-major (if applicable).

Mid-year Intake

Three Unit Transition Option

Based on successful completion of all 8 Western Sydney University The College units - Students will complete three units in their first and second semester at Western Sydney University, before transitioning to a four unit study load for the remainder of their degree.

This option would allow students to complete the remainder of their degree in 2.5 years.

Note: Students may be able to accelerate course completion (finishing in two years) by completing one or two units (elective or core) in the Western Summer period. Students could also pick up a second elective unit in the first Autumn session to take them to a four unit study load in their second Western semester.

Advice on this accelerated option will be case-by-case, based on available units and prerequisites.

Year 2

Spring session

400808.4	Outdoor Recreation
400891.2	Movement and Skill Development
400892.2	Physical Activity, Nutrition and Health

Autumn session

401055.2	Sport and Exercise Psychology
400866.3	Culture, Diversity and Health

And one elective

Year 3

Spring session

401239.1	Introduction to Physical Cultural Studies
400798.3	PDHPE: Games for Diverse Groups
400896.1	Gymnastics and Dance

And one elective

Autumn session

401169.2	Coaching Sport and Recreation Activities
400894.2	Contemporary Youth Health Issues
400895.2	Aquatic Sports

And one elective

Year 3

Spring session

401056.2	Applied Exercise Science for Personal Trainers and Coaches
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And one elective

Four Unit Transition Option

Based on successful completion of all 8 Western Sydney University The College units

Note: This option is not recommended for all College students as it may be difficult for students to transition into a four unit study load straight away.

Year 2

Spring session

400808.4	Outdoor Recreation
400892.2	Physical Activity, Nutrition and Health
400798.3	PDHPE: Games for Diverse Groups

And one elective

Autumn session

401055.2	Sport and Exercise Psychology
400866.3	Culture, Diversity and Health
400894.2	Contemporary Youth Health Issues

And one elective

Year 3

Spring session

400891.2	Movement and Skill Development
401239.1	Introduction to Physical Cultural Studies
400896.1	Gymnastics and Dance
401056.2	Applied Exercise Science for Personal Trainers and Coaches

Autumn session

401169.2	Coaching Sport and Recreation Activities
400895.2	Aquatic Sports

And two electives

Diploma in Science/Bachelor of Medical Science

6002.2

This degree comprises three areas of major: biomedical science, medicinal chemistry and anatomy and physiology. The biomedical science major focuses on microbiology, biochemistry, molecular biology and aspects of health. The medicinal chemistry major focuses on chemistry and biochemistry, while the anatomy and physiology major focuses on anatomy, physiology and pharmacology. Graduates of this degree will find employment in areas such as medical research laboratories, hospital laboratories and in pathology laboratories and be well suited for positions in the pharmaceutical, medical sales and various research and quality control laboratories, as well as further study including research degrees, graduate pharmacy and graduate medicine degrees.

The first year of this course is delivered by Western Sydney University The College as an agent of Western Sydney University via extended face-to-face hours in smaller learning environments.

A Diploma in Science exit point is also available at the end of the first year of the course.

For more information on Western Sydney University, The College, please refer to their web site.

For course advice during your first year of study, please use the contact below under 'Course Advice'. For course advice

during your second and subsequent years of study, please use the contact listed for the Bachelor of Medical Science.

Study Mode

Three years full-time or six years part-time. Students will be required to attend the Hawkesbury and Campbelltown campuses for some learning experiences.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal
Campbelltown Campus	Part Time	Internal
Hawkesbury Campus	Full Time	Internal
Hawkesbury Campus	Part Time	Internal
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal
The College - Nirimba Education Precinct	Full Time	Internal
The College - Nirimba Education Precinct	Part Time	Internal

Admission

For more information on applying please see link to The College admission pages below.

Domestic students are required to have

- Completed an English unit in the NSW Higher School Certificate, OR
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) OR
- Passed The College English test at IELTS 6.0 equivalent OR
- Passed The College Foundation Studies Academic English unit at C grade level or higher.

Students are also assumed to have completed some study in Mathematics and Science at a senior high school level or equivalent.

Met other entry requirements such as

- An ATAR identified prior to the offer of a place, OR
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher

International students must satisfy one of the following language requirements

- IELTS 6.0 with a minimum 5.5 in each sub band OR
- Completed the College EAP 4 course with a 50% pass OR
- Passed The College English test at IELTS 6.0 equivalent OR
- Passed The College Foundation Studies Academic English unit at C grade level or higher for which advanced standing can be applied for.

Academic Entry Requirements vary according to country of origin. However, in general

- Completion of Year 12 or its equivalent is the minimum entry requirement OR

- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

Course Structure

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Western Sydney University The College Units

Nirimba Campus

Year 1

Preparatory Units

- 700043.3** Chemistry (WSTC Prep)
- 700173.2** Tertiary Study Skills in Science (WSTC Prep)

Students must pass the following University level units

- 700095.2** Biodiversity (WSTC)
- 700125.2** Cell Biology (WSTC)
- 700122.2** Essential Chemistry 2 (WSTC)
- 700123.2** Quantitative Thinking (WSTC)
- 700124.2** Scientific Literacy (WSTC)

Choose one of

- 700121.3** Essential Chemistry 1 (WSTC)
- 700155.2** Introductory Chemistry (WSTC)

** And two more units from the following five units (depending on which major students are progressing to):

Choose two of

- 700266.1** Concepts in Human Anatomy (WSTC)
- 700265.1** Food Science 1 (WSTC)
- 700096.3** Integrated Science (WSTC)
- 700098.2** Introduction to Physiology (WSTC)
- 700099.2** Resource Sustainability (WSTC)

** The recommended units to be chosen from the above five alternate units listed above for each major are detailed below: Students progressing to a major in Medicinal Chemistry or Anatomy and Physiology or Biomedical Science must choose: 700098 Introduction to Physiology (WSTC) 700266 Concepts in Human Anatomy (WSTC)

Students may exit at this point and graduate with the Diploma in Science following a passing grade in all of the above units. Students who progress onto Year Two may also be awarded the Diploma if they gain a passing grade in all of the above units.

- Students must pass all College Preparatory units before progressing to the Year Two units.
- Students must pass at least 70 credit points of University level units in Year One before progressing to the Year Two units.

Western Sydney University Units

For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Medical Science.

Campbelltown, Hawkesbury and Parramatta (Victoria Road) Campus**Year 2 - Year 3**

Students must select one of the following Majors

M3060.1	Medicinal Chemistry
M3061.1	Anatomy and Physiology
M3062.1	Biomedical Science

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points) including the sub-majors listed below.

Sub-majors

SM3048.1	Climate Change
SM3044.1	Microbiology
SM3050.1	Physics

Students who maintain a GPA of 5 or higher may use elective units toward obtaining an additional approved sub-major in Critical Thinking.

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Elective Units

The following unit, 301161 Work Integrated Learning in Science, is a level 2 elective unit that gives students the opportunity to undertake a short work placement within a professional organisation. For further details please follow the link

301161.1 Work Integrated Learning in Science

Diploma in Science/Bachelor of Natural Science**6003.1****Bachelor of Natural Science (Animal Science)**

Interactions between people and animals are increasing due to our ever-increasing reliance on animals for companionship and food production, whilst we also strive to understand the pressures placed on our unique wildlife. A Bachelor of Natural Science (Animal Science) will enable you to develop a deep understanding of these issues, through studies of animal behaviour, animal health and welfare, animal nutrition, animal production, animal reproduction, human-animal interactions, vertebrate biodiversity, and wildlife science. Throughout your studies, you will have access to diverse on-campus animal facilities including reptiles, native mammals, horses, sheep, cattle and deer and off-campus animal professionals and organisations such as wildlife parks, zoos, farms and horse studs. There are a range of majors (conservation biology, zoology) and sub-majors (environmental sustainability and management) offered in Natural Science and Science that can add diversity and/or focus to your degree, to enable

your degree to be matched to your career aspirations. A variety of compelling and exciting career paths are available to graduates of this program, including international opportunities in the many fields of animal science.

Bachelor of Natural Science (Environmental Management)

History has shown that if we don't effectively manage our environment, we will degrade it - possibly to the point where it can no longer sustain us. Environmental managers are concerned with ensuring the ecological sustainability of human development and minimising the size of our "ecological footprint". A Bachelor of Natural Science (Environmental Management) will develop your problem solving skills and equip you to work collaboratively with both community members and professional practitioners to develop innovative policy and strategies that address the increasingly complex causes of today's environmental problems. Issues include urban development, global climate change, persistent organic pollutants (POPs), decreasing biodiversity, deteriorating air and water quality, and sustainable use of natural resources. The major areas embodied within the program include assessment and management of aquatic environments water quality assessment and management; introduction to wildlife; sustainable land and resource use; Indigenous land management; environmental planning; climate change science; environmental regulation and policy; environmental risk management and urban development. The majors (aquatic and conservation biology) and sub-majors (environmental sustainability and management) offered in Natural Science and Science can add diversity and/or focus to your degree, to help match your studies to your career aspirations.

The first year of this course is delivered by Western Sydney University The College as an agent of Western Sydney University via extended face-to-face hours in smaller learning environments.

A Diploma in Science exit point is also available at the end of the first year of the course.

For more information on Western Sydney University, The College, please refer to their web site.

For course advice during your first year of study, please use the contact below under 'Course Advice'. For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Natural Science.

Study Mode

Three years full-time or six years part-time. Students will be required to attend the Hawkesbury and Campbelltown campuses for some learning experiences.

Location

Campus	Attendance	Mode
Bankstown Campus	Full Time	Internal
Bankstown Campus	Part Time	Internal
Hawkesbury Campus	Full Time	Internal
Hawkesbury Campus	Part Time	Internal
The College - Nirimba Education Precinct	Full Time	Internal

Campus	Attendance	Mode
The College - Nirimba Education Precinct	Part Time	Internal

Students must pass the following University level units

700125.2 Cell Biology (WSTC)
700122.2 Essential Chemistry 2 (WSTC)
700124.2 Scientific Literacy (WSTC)

Choose one of

700121.3 Essential Chemistry 1 (WSTC)
700155.2 Introductory Chemistry (WSTC)

Choose one of

700095.2 Biodiversity (WSTC)
700035.4 Physics 1 (WSTC)

Choose one of

700033.4 Biometry (WSTC)
700123.2 Quantitative Thinking (WSTC)

Choose two of

700266.1 Concepts in Human Anatomy (WSTC)
700265.1 Food Science 1 (WSTC)
700096.3 Integrated Science (WSTC)
700098.2 Introduction to Physiology (WSTC)
700099.2 Resource Sustainability (WSTC)

Students progressing to Bachelor of Natural Science (Animal Science or Environmental Management) must choose 700099 Resource Sustainability (WSTC) and 700096 Integrated Science (WSTC).

Students may exit at this point and graduate with the Diploma in Science following a passing grade in all of the above units. Students who progress onto Year Two may also be awarded the Diploma if they gain a passing grade in all of the above units.

- Students must pass all College Preparatory units before progressing to the Year Two units.
- Students must pass at least 70 credit points of University level units in Year One before progressing to the Year Two units.

Western Sydney University Units

For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Natural Science.

Hawkesbury Campus

Students choose either Bachelor of Natural Science (Animal Science) or Bachelor of Natural Science (Environmental Management)

Animal Science**Year 2****Autumn session**

300807.1 Human Animal Interactions
300813.1 Wildlife Studies
300834.1 Animal Health and Welfare
300853.1 Animal Nutrition and Feeding

Admission

For more information on applying please see link to The College admission pages below.

Domestic students are required to have

- Completed an English unit in the NSW Higher School Certificate, Or
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher.

Students are also assumed to have completed some study in Mathematics and Science at a senior high school level or equivalent.

Met other entry requirements such as

- An ATAR identified prior to the offer of a place, Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

International students must satisfy one of the following language requirements

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed the College EAP 4 course with a 50% pass Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher for which advanced standing can be applied for.

Academic Entry Requirements vary according to country of origin. However, in general

- Completion of Year 12 or its equivalent is the minimum entry requirement Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

Course Structure

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Western Sydney University The College Units**Bankstown, Hawkesbury and Nirimba Campus**

Please note that all campuses may not have intakes each year.

Year 1**Preparatory Units**

700043.3 Chemistry (WSTC Prep)
700173.2 Tertiary Study Skills in Science (WSTC Prep)

Spring session

300932.1	Natural Science Research Methods
300835.1	Animal Reproduction
300836.1	Botany
300801.1	Animal Science

Year 3**Autumn session**

300913.1	Field Project 1
300878.1	Animal Behaviour
300854.1	Animal Production

And one Level 3 elective

Spring session

300914.1	Field Project 2
300861.1	Vertebrate Biodiversity

And two Level 3 electives

Environmental Management**Year 2****Autumn session**

300813.1	Wildlife Studies
300824.1	Management of Aquatic Environments
300840.1	Environmental Planning and Climate Change

And one Level 3 elective

Spring session

300814.1	Water Quality Assessment and Management
300812.1	Understanding Landscape
300875.1	Landuse and the Environment
300932.1	Natural Science Research Methods

Year 3**Summer B session**

300959.1	Mangamai'bangawarra: Indigenous Science
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Autumn session

300913.1	Field Project 1
300858.1	Environmental Risk Management

And two Level 3 electives

Spring session

300914.1	Field Project 2
300860.1	Urban Environment
300870.1	Water in the Landscape
300841.1	Environmental Regulation and Policy

Diploma in Science/Bachelor of Science**6004.1**

Science asks questions about how the natural world works. It does so in a systematic, yet rigorously creative way based on inquiry and evidence for ideas. This approach has led to our current understanding of nature as being (in large part) systematic and predictable, and has underpinned major advances in human welfare. A Bachelor of Science will prepare you to take part in this process of enquiry, by both contributing to it and by using scientific knowledge to solve current problems. Students will learn core concepts and skills necessary for scientific inquiry: investigating the natural world, proposing and testing ideas by experimentation and observation; quantifying and modelling processes; communicating findings, thinking independently and critically. Students can enrol in a generalist Bachelor of Science or a Bachelor of Science in a specific discipline. Within each program students can select from a range of scientific disciplines to suit their interests, studying a core of basic science units to which other science units, and if desired, non-science units, can be added.

The first year of this course is delivered by Western Sydney University The College as an agent of Western Sydney University via extended face-to-face hours in smaller learning environments.

A Diploma in Science exit point is also available at the end of the first year of the course.

For more information on Western Sydney University, The College, please refer to their web site.

For course advice during your first year of study, please use the contact below under 'Course Advice'. For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Science.

Study Mode

Three years full-time or six years part-time. Students will be required to attend the Hawkesbury and Campbelltown campuses for some learning experiences.

Location

Campus	Attendance	Mode
Bankstown Campus	Full Time	Internal
Bankstown Campus	Part Time	Internal
Campbelltown Campus	Full Time	Internal
Campbelltown Campus	Part Time	Internal
Hawkesbury Campus	Full Time	Internal
Hawkesbury Campus	Part Time	Internal
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal
The College - Nirimba Education Precinct	Full Time	Internal
The College - Nirimba Education Precinct	Part Time	Internal

Admission

For more information on applying please see link to The College admission pages below.

Domestic students are required to have

- Completed an English unit in the NSW Higher School Certificate, Or
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher.

Students are also assumed to have completed some study in Mathematics and Science at a senior high school level or equivalent.

Met other entry requirements such as

- An ATAR identified prior to the offer of a place, Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher

International students must satisfy one of the following language requirements

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed the College EAP 4 course with a 50% pass Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher for which advanced standing can be applied for.

Academic Entry Requirements vary according to country of origin. However, in general

- Completion of Year 12 or its equivalent is the minimum entry requirement Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

Course Structure

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Western Sydney University The College Units

Bankstown and Nirimba Campus

Please note that all campuses may not have intakes each year.

Preparatory level units

- 700043.3** Chemistry (WSTC Prep)
700173.2 Tertiary Study Skills in Science (WSTC Prep)

Students must pass the following University level units dependent upon the Western Sydney University degree they wish to enter on successful completion of their studies.

- 700125.2** Cell Biology (WSTC)
700122.2 Essential Chemistry 2 (WSTC)
700124.2 Scientific Literacy (WSTC)

Choose one of

- 700121.3** Essential Chemistry 1 (WSTC)
700155.2 Introductory Chemistry (WSTC)

Bachelor of Science (Forensic Science or Chemistry) students must choose 700121 Essential Chemistry 1 (WSTC).

Choose one of

- 700095.2** Biodiversity (WSTC)
700035.4 Physics 1 (WSTC)

Bachelor of Science (Chemistry) students must choose 700035 Physics 1 (WSTC).

Choose one of

- 700033.4** Biometry (WSTC)
700123.2 Quantitative Thinking (WSTC)

Choose two of

- 700266.1** Concepts in Human Anatomy (WSTC)
700265.1 Food Science 1 (WSTC)
700096.3 Integrated Science (WSTC)
700098.2 Introduction to Physiology (WSTC)
700099.2 Resource Sustainability (WSTC)

Students planning to progress to the Bachelor of Science (Biological Sciences) the following pattern is recommended.

- 700095.2** Biodiversity (WSTC)
700125.2 Cell Biology (WSTC)
700122.2 Essential Chemistry 2 (WSTC)
700098.2 Introduction to Physiology (WSTC)
700124.2 Scientific Literacy (WSTC)

Choose one of

- 700121.3** Essential Chemistry 1 (WSTC)
700155.2 Introductory Chemistry (WSTC)

Choose one of

- 700033.4** Biometry (WSTC)
700123.2 Quantitative Thinking (WSTC)

Choose one of

- 700096.3** Integrated Science (WSTC)
700099.2 Resource Sustainability (WSTC)

Students progressing to Bachelor of Science (Chemistry) must choose:

- 700122.2** Essential Chemistry 2 (WSTC)
700035.4 Physics 1 (WSTC)
700124.2 Scientific Literacy (WSTC)

Choose one of

- 700121.3** Essential Chemistry 1 (WSTC)
700155.2 Introductory Chemistry (WSTC)

Choose four of

- 700095.2** Biodiversity (WSTC)
700033.4 Biometry (WSTC)
700125.2 Cell Biology (WSTC)
700096.3 Integrated Science (WSTC)
700098.2 Introduction to Physiology (WSTC)
700123.2 Quantitative Thinking (WSTC)

700099.2 Resource Sustainability (WSTC)

Students progressing to Bachelor of Science must choose:

700124.2 Scientific Literacy (WSTC)

Choose one of

- 700033.4** Biometry (WSTC)
700123.2 Quantitative Thinking (WSTC)

Choose six of

Please note that choices in first year will impact on available majors in second year. It is recommended that students seek academic advice if taking this sequence.

- 700095.2** Biodiversity (WSTC)
700125.2 Cell Biology (WSTC)
700122.2 Essential Chemistry 2 (WSTC)
700096.3 Integrated Science (WSTC)
700098.2 Introduction to Physiology (WSTC)
700155.2 Introductory Chemistry (WSTC)
700099.2 Resource Sustainability (WSTC)

Or

700121.3 Essential Chemistry 1 (WSTC)

Students progressing to Bachelor of Science (Forensic Science) must choose:

- 700095.2** Biodiversity (WSTC)
700033.4 Biometry (WSTC)
700125.2 Cell Biology (WSTC)
700266.1 Concepts in Human Anatomy (WSTC)
700122.2 Essential Chemistry 2 (WSTC)
700124.2 Scientific Literacy (WSTC)

Choose one of

- 700121.3** Essential Chemistry 1 (WSTC)
700155.2 Introductory Chemistry (WSTC)

Choose one of

- 700098.2** Introduction to Physiology (WSTC)
700096.3 Integrated Science (WSTC)
700099.2 Resource Sustainability (WSTC)
700123.2 Quantitative Thinking (WSTC)

Students progressing to Bachelor of Science (Nutrition and Food Sciences) must choose:

- 700095.2** Biodiversity (WSTC)
700125.2 Cell Biology (WSTC)
700122.2 Essential Chemistry 2 (WSTC)
700265.1 Food Science 1 (WSTC)
700123.2 Quantitative Thinking (WSTC)
700124.2 Scientific Literacy (WSTC)

Choose one of

- 700121.3** Essential Chemistry 1 (WSTC)
700155.2 Introductory Chemistry (WSTC)

Choose one of

- 700033.4** Biometry (WSTC)
700096.3 Integrated Science (WSTC)
700098.2 Introduction to Physiology (WSTC)
700099.2 Resource Sustainability (WSTC)

Students progressing to Bachelor of Science (Environmental Science) must choose:

- 700095.2** Biodiversity (WSTC)
700125.2 Cell Biology (WSTC)
700122.2 Essential Chemistry 2 (WSTC)
700099.2 Resource Sustainability (WSTC)
700124.2 Scientific Literacy (WSTC)

Choose one of

- 700121.3** Essential Chemistry 1 (WSTC)
700155.2 Introductory Chemistry (WSTC)

Choose one of

- 700033.4** Biometry (WSTC)
700123.2 Quantitative Thinking (WSTC)

Choose one of

- 700096.3** Integrated Science (WSTC)
700098.2 Introduction to Physiology (WSTC)

Students progressing to Bachelor of Science (Zoology)

- 700095.2** Biodiversity (WSTC)
700125.2 Cell Biology (WSTC)
700122.2 Essential Chemistry 2 (WSTC)
700124.2 Scientific Literacy (WSTC)

Choose one of

- 700121.3** Essential Chemistry 1 (WSTC)
700155.2 Introductory Chemistry (WSTC)

Choose one of

- 700033.4** Biometry (WSTC)
700123.2 Quantitative Thinking (WSTC)

Choose two of

- 700096.3** Integrated Science (WSTC)
700098.2 Introduction to Physiology (WSTC)
700099.2 Resource Sustainability (WSTC)

Students may exit at this point and graduate with the Diploma in Science following a passing grade in all of the above units. Students who progress onto Year Two may also be awarded the Diploma if they gain a passing grade in all of the above units.

- Students must pass all College Preparatory units before progressing to the Year Two units.
- Students must pass at least 70 credit points of University level units in Year One before progressing to the Year Two units.

Western Sydney University Units

For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Science.

Year 2 and Year 3

160 credit points as per the rules of the Bachelor of Science. At least 60 credit points needs to be a Level 3 of which 40 credit points need to be from science units, including at least one capstone unit.

Level 2 and 3

The completion of at least one of the following Majors

M3090.1	Biochemistry and Molecular Biology
M3047.1	Chemistry
M3078.1	Climate Change
M3079.1	Conservation Biology
M4011.1	Environmental Consulting
M3100.1	Forensic Chemistry
M3080.1	General Biology
M3081.1	Marine Biology
M3054.1	Mathematics
M3099.1	Microbiology
M3089.1	Nutrition and Physiology
M3082.1	Zoology

The completion of at least ten Level 2 or 3 science units from the senior unit sets below with at least four at Level 3 (Units within your major count towards this requirement)

At least one of the Level 3 units must be a capstone unit

Senior Unit Set Level 2

200028.3	Advanced Calculus
300832.1	Analytical Chemistry
300836.1	Botany
300930.1	Classical Physics and Advanced Technologies
300838.1	Comparative Physiology
300837.1	Climate Change Science
200030.4	Differential Equations
300839.1	Ecology
300843.1	Forensic and Environmental Analysis
300936.1	Functional Proteins and Genes
300845.1	Genetics
300847.2	Immunology
300899.1	Inorganic Chemistry
300931.1	Integrated Science
301033.1	Introduction to Data Science
200027.3	Linear Algebra
301032.1	Making Sense of Data
300959.1	Mangamai'bangawarra: Indigenous Science
300848.1	Metabolism
300833.1	Microbiology 1
300817.1	Molecular Biology
300896.1	Microbiology 2
300980.1	Principles of Evolution
300865.1	Plant Physiology
300979.1	Principles of Zoology
300849.2	Physical Chemistry
300876.1	Organic Chemistry

Note: Students may only choose one of 300832 Analytical Chemistry or 300843 Forensic and Environmental Analysis

Senior unit set Level 3

300907.1	Advanced Inorganic Chemistry
300926.1	Advanced Physical Chemistry
300857.1	Environmental Geochemistry
300912.1	Molecular Pharmacokinetics
300919.1	Occupational Health and Safety

Please note unit 300857 replaced by 301212 Science of the Anthropocene from 2019.

300925.1	Advanced Analytical Chemistry
300906.1	Advanced Organic Chemistry

300905.1	Advanced Immunology
200193.2	Abstract Algebra
300850.1	Advanced Cell Biology
200023.3	Analysis
301035.1	Environmental Informatics
300856.1	Ecosystem Carbon Accounting
300820.1	Genes, Genomics and Human Health
300918.3	Invertebrate Biology
200022.3	Mathematical Modelling
300826.1	Medical Microbiology
301034.1	Predictive Modelling
300923.1	Quantum Physics
301212.1	Science of the Anthropocene
300819.1	Topics in Physiology
300861.1	Vertebrate Biodiversity

Capstone Units

300851.1	Advanced Physiology
300866.1	Analytical Microbiology
300909.1	Biological Adaptation to Climate Change
300855.1	Conservation Biology
300883.1	Laboratory Quality Management
300978.1	Marine and Aquatic Ecology
300927.2	Molecular Medicine
200045.3	Quantitative Project
300924.1	Science Research Project

Diploma in Health Science**7018.4**

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

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

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

For more information on Western Sydney University, The College, please refer to their web site

The Diploma in Health Science is designed to provide students with the first year units included in the Bachelor of Health Science course. The Diploma presents students with subjects covering introductory Science, Communication and Health aspects of the Bachelor of Health Science course. Transition to tertiary study is assisted by the inclusion of Foundation level Academic English and Science. The Diploma aims to produce students who are fully prepared for study beyond the first year of the Bachelor of Health Science degree in the specified key programs of Health Promotion, Health Services Management, Therapeutic Recreation and public Health. This course, completed in a smaller, more supportive learning environment than usually found in first year undergraduate programs, is designed to develop students to have greater ability in self-directed study and have the self esteem that comes from prior achievement in a tertiary environment

Study Mode

One year full-time (three terms).

Location

Campus	Attendance	Mode
The College - Nirimba Education Precinct	Full Time	Internal

Admission

The aim of the course is to prepare students for tertiary study in Health Science areas of Health Promotion, Health Services Management and Therapeutic Recreation. The Diploma will be accredited by the University, as principal, to enable its agent, Western Sydney University, The College, to produce students who are fully prepared for study beyond the first year of a tertiary award.

Local students entering this Diploma are required to have:

- Completed an English unit in the NSW Higher School Certificate, Or
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed the English test administered by Western Sydney University, The College at IELTS 6.0 equivalent Or
- Passed the Foundation Studies Academic English unit, offered by Western Sydney University, The College at C grade level or higher for which advanced standing can be applied for.

Met other entry requirements such as:

- An ATAR identified prior to the offer of a place (the ATAR will be set each year at a level below that for admission for the Bachelor of Health Science) Or
- Completed the Foundation Studies course offered by Western Sydney University, The College, with a Grade Point Average of 5.5 or higher.

English Entry Requirements. International students entering the Diploma must satisfy one of the following language requirements:

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed the EAP III course, offered by Western Sydney University, The College, with a 50% pass Or
- Passed the English test administered by Western Sydney University, The College at IELTS 6.0 equivalent Or
- Passed the Foundation Studies Academic English unit, offered by Western Sydney University, The College at C grade level or higher for which advanced standing can be applied for.

Academic Entry Requirements vary according to country of origin. However, in general:

- Completion of Year 12 or its equivalent is the minimum entry requirement Or
- Completed the Foundation Studies course offered by Western Sydney University, The College, with a Grade Point Average of 5.5 or higher.

Course Structure

Successful completion of the following units will allow students to enter the second year of the Bachelor of Health Science (with key programs in Health Promotion, Health Services Management, Therapeutic Recreation or Public Health) at Western Sydney University with 80 credit points of advanced standing.

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

700065.3	Approaches to Health Promotion (WSTC)
700062.3	Communication in Health (WSTC)
700064.2	Foundations of Research and Evidence-Based Practice (WSTC)
700061.3	Introduction to Human Biology (WSTC)
700067.2	Professional Health Competencies (WSTC)
700066.3	Population Health and Society (WSTC)
700060.3	Psychology and Health (WSTC)
700075.2	Professional Pathways in Health Science (WSTC)

Students must pass the following preparatory level units for which no advanced standing will be granted in the Western Sydney University degree program

700056.3	Academic English (WSTC Prep)
700190.2	Fundamentals of Health Science (WSTC Prep)

Students must also pass the following non-award unit. This unit does not count for credit towards the Diploma.

700170.2	Tertiary Study Skills in Health Science (WSTC Prep)
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Diploma in Health Science Extended**7142.1**

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

This program is designed to provide students with the first year units included in the Health Science degree. The inclusion of additional preparatory units is designed to assist students in the transition to study at University level. The Diploma is delivered via extended face to face hours in smaller learning environments.

Students who successfully complete this Diploma will articulate into the Health Science degree with up to one year (80 credit points) equivalent of advanced standing.

For more information on Western Sydney University, The College, please refer to their web site.

Study Mode

One and a half years full-time (four terms)

Location

Campus	Attendance	Mode
The College - Nirimba Education Precinct	Full Time	Internal

Admission

Recent School Leavers

Completion of Year 12 with specified ATAR to be determined year by year.

Non-credentialed Students

Australian Citizens and Permanent Residents who are aged 17 years or over.

Course Structure

Students are categorised into two Pathways. See individual links below for detailed course structure.

Local Recent School Leavers

A7232.1 WSTC Health Science Extended - Recent School Leavers

Non-credentialed Applicants

A7233.1 WSTC Health Science Extended - Non-Credentialed Students

Diploma in Health Science Fast Track

7019.3

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year for this course is 2014 or later.

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

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

The Diploma in Health Science Fast Track is designed to provide students with the first year units included in the Bachelor of Health Science course. The Diploma presents students with subjects covering introductory Science, Communication and Health aspects of the Bachelor of Health Science course. The Diploma aims to produce students who are fully prepared for study beyond the first year of the Bachelor of Health Science degree in the specified key programs of Health Promotion, Health Services Management, Therapeutic Recreation and Public Health. This course, completed in a smaller, more supportive learning environment than usually found in first year undergraduate programs, is designed to develop students to have greater ability in self-directed study and have the self esteem that comes from prior achievement in a tertiary environment.

For more information on Western Sydney University, The College, please refer to their web site.

Study Mode

Eight months full-time (two terms)

Admission

The aim of the course is to prepare students for tertiary study in Health Science areas of Health Promotion, Health Services Management, Therapeutic Recreation and Public Health. The Diploma will be accredited by the University, as principal, to enable its agent, Western Sydney University, The College, to produce students who are fully prepared for study beyond the first year of a tertiary award.

Local students entering this Diploma are required to have:

- Completed an English unit in the NSW Higher School Certificate, Or
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed the English test administered by Western Sydney University, The College at IELTS 6.0 equivalent Or
- Passed the Foundation Studies Academic English unit, offered by Western Sydney University, The College at C grade level or higher

Met other entry requirements such as:

- An ATAR identified prior to the offer of a place (the ATAR will be set each year at a level below that for admission for the Bachelor of Health Science) Or
- Completed the Foundation Studies course offered by Western Sydney University, The College, with a Grade Point Average of 6.0 or higher.

English Entry Requirements. International students entering the Diploma must satisfy one of the following language requirements:

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed the EAP 4 course offered by Western Sydney University, The College with a 50% pass Or
- Passed the English test administered by Western Sydney University, The College at IELTS 6.0 equivalent Or
- Passed the Foundation Studies Academic English unit, offered by Western Sydney University, The College at C grade level or higher.

Academic Entry Requirements vary according to country of origin. However, in general:

- Completion of Year 12 or its equivalent is the minimum entry requirement Or
- Completed the Foundation Studies course offered by Western Sydney University, The College, with a Grade Point Average of 6.0 or higher.

Course Structure

Successful completion of the units listed below will allow students to enter the second year of the Bachelor of Health Science (with key programs in Health Promotion, Health Services Management, Therapeutic Recreation or Public Health) at Western Sydney University with 80 credit points of advanced standing.

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

700065.3 Approaches to Health Promotion (WSTC)
700062.3 Communication in Health (WSTC)

700064.2	Foundations of Research and Evidence-Based Practice (WSTC)
700061.3	Introduction to Human Biology (WSTC)
700067.2	Professional Health Competencies (WSTC)
700066.3	Population Health and Society (WSTC)
700060.3	Psychology and Health (WSTC)
700075.2	Professional Pathways in Health Science (WSTC)

Students must also pass the following non-award unit. This unit does not count for credit towards the Diploma.

700170.2	Tertiary Study Skills in Health Science (WSTC Prep)
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Diploma in Health Science (Health and Physical Education)

7088.1

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

This program is designed to provide students with the first year units included in the Bachelor of Health Science (Health and Physical Education) course. It presents students with subjects covering introductory Science, Communication and Health aspects of the Bachelor of Health Science course and aims to produce students who are fully prepared for study beyond the first year of the Bachelor of Health Science degree. It is delivered in a smaller, more supportive learning environment than usually found in first year undergraduate programs. Students who successfully complete the Diploma in Health Science (Health and Physical Education) will articulate into the Bachelor of Health Science (Health and Physical Education) degree at Western Sydney University with up to one year (80 CPs) equivalent of advanced standing.

For more information on Western Sydney University, The College, please refer to their web site.

Study Mode

One year full-time (three terms)

Location

Campus	Attendance	Mode
The College - Nirimba Education Precinct	Full Time	Internal

Admission

The aim of the course is to prepare students for tertiary study in health science. The Diploma is accredited by the University, as principal, to enable its agent, Western Sydney University, The College to produce students who are fully prepared for study beyond the first year of a tertiary award.

Local Students

Local students entering this Diploma are required to have

- Completed an English unit in the NSW Higher School Certificate, Or
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or

- Passed the English test administered by Western Sydney University, The College at IELTS 6.0 equivalent Or
- Passed the Foundation Studies Academic English unit, offered by Western Sydney University, The College at C grade level or higher for which advanced standing can be applied.

Met other entry requirements such as

- An ATAR identified prior to the offer of a place (the ATAR will be set each year at a level below that for admission for the Bachelor of Health Science), Or
- Completed the Foundation Studies course offered by Western Sydney University, The College, with a Grade Point Average of 5.5 or higher

International Students

International students entering the Diploma must satisfy one of the following language requirements

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed the EAP 4 course offered by Western Sydney University, The College with a 50% pass Or
- Passed the English test administered by Western Sydney University, The College at IELTS 6.0 equivalent Or
- Passed the Foundation Studies Academic English unit, offered by Western Sydney University, The College at C grade level or higher for which advanced standing can be applied.

Academic Entry Requirements vary according to country of origin. However, in general

- Completion of Year 12 or its equivalent is the minimum entry requirement Or
- Completed the Foundation Studies course offered by Western Sydney University, The College, with a Grade Point Average of 5.5 or higher.

Course Structure

Students must pass the following University level units, which will allow students to enter the second year of the Bachelor of Health Science (PDHPE) course at Western Sydney University with 80 credit points of advanced standing.

700067.2	Professional Health Competencies (WSTC)
700066.3	Population Health and Society (WSTC)
700062.3	Communication in Health (WSTC)
700060.3	Psychology and Health (WSTC)
700061.3	Introduction to Human Biology (WSTC)
700064.2	Foundations of Research and Evidence-Based Practice (WSTC)
700065.3	Approaches to Health Promotion (WSTC)
700073.2	Fundamentals of Exercise Science (WSTC)

Students must also pass the following preparatory units for which no advanced standing will be granted in the Western Sydney University degree program.

700056.3	Academic English (WSTC Prep)
700190.2	Fundamentals of Health Science (WSTC Prep)

Students must also pass the following non-award unit which does not count for credit towards the Diploma.

700170.2 Tertiary Study Skills in Health Science
(WSTC Prep)

Diploma in Health Science (Health and Physical Education) Extended

7143.1

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

This program is designed to provide students with the first year units included in the Health Science (Health and Physical Education) degree. The inclusion of additional preparatory units is designed to assist students in the transition to study at University level. The Diploma is delivered via extended face to face hours in smaller learning environments.

Students who successfully complete this Diploma will articulate into the Health Science (Health and Physical Education) degree with up to one year (80 CPs) equivalent of advanced standing.

For more information on Western Sydney University, The College, please refer to their web site.

Study Mode

One and a half years full-time (four terms).

Location

Campus	Attendance	Mode
The College - Nirimba Education Precinct	Full Time	Internal

Admission

Recent School Leavers

Completion of Year 12 with specified ATAR to be determined year by year.

Non-credentialed Students

Australian Citizens and Permanent Residents who are aged 17 years or over.

International Students

IELTS 5.5 with minimum 5.0 in each sub band; or equivalent results from The College English Language Program or The College English Entrance Test; and completion of year 11 or equivalent with specified results.

Course Structure

Students are categorised into two Pathways. See individual links below for detailed course structure.

Local recent school leavers

A7234.1 WSTC Health Science (HPE)
Extended - Recent School Leavers

Non-credentialed applicants

A7235.1 WSTC Health Science (HPE)
Extended - Non-Credentialed
Students

Diploma in Science

7084.3

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is Term 3, 2017 or later.

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

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

This course is designed to engage students in, and further prepare students for, tertiary study in science. It presents students with first year level Bachelor of Science units and aims to produce students who are fully prepared for study beyond the first year of the Bachelor of Science degree. It is delivered in a smaller, more supportive learning environment than usually found in first year undergraduate programs.

Students who successfully complete the Diploma in Science will articulate into Bachelor of Science or Bachelor of Science (Chemistry or Biological Sciences or Nutrition and Food or Forensic Science or Environmental Science or Zoology) or Bachelor of Medical Science (Medicinal Chemistry or Anatomy and Physiology or Biomedical Science) or Bachelor of Natural Science (Animal Science or Environmental Management) or Bachelor of Medical Science (Forensic Mortuary Practice) at Western Sydney University with up to one year equivalent of advanced standing (80 credit points).

For more information on Western Sydney University, The College, please refer to their web site.

Study Mode

One year full-time (three terms)

Location

Campus	Attendance	Mode
The College - Nirimba Education Precinct	Full Time	Internal

Admission

The aim of the course is to prepare students for tertiary study in Science. The Diploma is accredited by the University, as principal, to enable its agent, The College, to produce students who are fully prepared for study beyond the first year of a tertiary award.

Local students are required to have

- Completed an English unit in the NSW Higher School Certificate Or
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed The College English test at IELTS 6.0 equivalent Or

- Passed The College Foundation Studies Academic English unit at C grade level or higher for which advanced standing can be applied for.

Students are also assumed to have completed some study in Mathematics and Science at senior high school level or its equivalent.

Met other entry requirements such as

- An ATAR identified prior to the offer of a place (the ATAR will be set each year at a level below that for admission for the Bachelor of Science) Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

International students

International students must satisfy one of the following language requirements

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed The College EAP 4 course with a 50% pass Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher for which advanced standing can be applied for.

Students are also assumed to have completed some study in Mathematics and Science at senior high school level or its equivalent.

Academic Entry Requirements vary according to country of origin. However, in general

- Completion of Year 12 or its equivalent is the minimum entry requirement Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher

Course Structure

Students must pass the following preparatory level unit for which no advanced standing will be granted in the University degree program

700043.3 Chemistry (WSTC Prep)

Students must also pass the non-award unit which does not count for credit towards the Diploma

700173.2 Tertiary Study Skills in Science (WSTC Prep)

Students must pass the following units

700125.2 Cell Biology (WSTC)
700122.2 Essential Chemistry 2 (WSTC)
700124.2 Scientific Literacy (WSTC)

Choose one of

700121.3 Essential Chemistry 1 (WSTC)
700155.2 Introductory Chemistry (WSTC)

Bachelor of Science (Forensic Science or Chemistry) students must choose 700121 Essential Chemistry 1 (WSTC).

Choose one of

700095.2 Biodiversity (WSTC)
700035.4 Physics 1 (WSTC)

Bachelor of Science (Chemistry) and Bachelor of Medical Science (Forensic Mortuary Practice) students must choose 700035 Physics 1 (WSTC).

Choose one of

700033.4 Biometry (WSTC)
700123.2 Quantitative Thinking (WSTC)

Bachelor of Medical Science (Forensic Mortuary Practice) students must choose 700033 Biometry (WSTC).

Students must also pass two units dependent upon the Western Sydney University degree they wish to enter on successful completion of their studies.

Students progressing to Bachelor of Medical Science (Medicinal Chemistry or Anatomy and Physiology or Biomedical Science) or Bachelor of Medical Science (Forensic Mortuary Practice) must choose

700266.1 Concepts in Human Anatomy (WSTC)
700098.2 Introduction to Physiology (WSTC)

Students progressing to Bachelor of Natural Science (Animal Science or Environmental Management) or Bachelor of Science (Chemistry) must choose

700096.3 Integrated Science (WSTC)
700099.2 Resource Sustainability (WSTC)

Students progressing to Bachelor of Science must choose

700096.3 Integrated Science (WSTC)
700098.2 Introduction to Physiology (WSTC)

Students progressing to Bachelor of Science (Forensic Science) must choose

700266.1 Concepts in Human Anatomy (WSTC)
700096.3 Integrated Science (WSTC)

Students progressing to Bachelor of Science (Biological Sciences) must choose

700098.2 Introduction to Physiology (WSTC)

And choose one of

700096.3 Integrated Science (WSTC)
700099.2 Resource Sustainability (WSTC)

Students progressing to Bachelor of Science (Nutrition and Food) must choose

700265.1 Food Science 1 (WSTC)
700098.2 Introduction to Physiology (WSTC)

Students progressing to Bachelor of Science (Environmental Science) must choose

700099.2 Resource Sustainability (WSTC)

And choose one of

700096.3 Integrated Science (WSTC)
700098.2 Introduction to Physiology (WSTC)

Students progressing to Bachelor of Science (Zoology) must choose any two of

700096.3 Integrated Science (WSTC)
700098.2 Introduction to Physiology (WSTC)
700099.2 Resource Sustainability (WSTC)

Diploma in Science Extended

7086.3

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

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

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

This course is designed to engage students in, and further prepare students for, tertiary study in science. It presents students with first year level Bachelor of Science units and aims to produce students who are fully prepared for study beyond the first year of the Bachelor of Science degree.

Students who successfully complete the Diploma in Science Extended will articulate into Bachelor of Science or Bachelor of Science (Chemistry or Biological Sciences or Nutrition and Food or Forensic Science or Environmental Science or Zoology) or Bachelor of Medical Science (Medicinal Chemistry or Anatomy and Physiology or Biomedical Science) or Bachelor of Natural Science (Animal Science or Environmental Management) or Bachelor of Medical Science (Forensic Mortuary Practice) at Western Sydney University with up to one year equivalent of advanced standing (80 credit points).

For more information on Western Sydney University, The College, please refer to their website.

Study Mode

One and a half years full-time (four terms). Students will be required to attend the Hawkesbury and Campbelltown campuses for some learning experiences.

Location

Campus	Attendance	Mode
The College - Nirimba Education Precinct	Full Time	Internal

Admission

Recent School Leavers

Completion of Year 12 with specified ATAR to be determined year by year.

Non-credentialed Students

Australian Citizens and Permanent Residents who are aged 17 years or over.

International Students

IELTS 5.5 with minimum 5.0 in each sub band; or equivalent results from The College English Language Program or The College English Entrance Test; and completion of year 11 or equivalent with specified results.

Course Structure

Students are categorised into two Pathways. See individual links below for detailed course structure.

Local Recent School Leavers / Non-Credentialed applicants

A7079.1	WSTC Science Extended Local Recent School Leavers / Non-Credentialed applicants
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International Students

A7080.1	WSTC Science Extended International Students
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Diploma in Science Extended - Medical Science

7120.3

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year for this course is 2018, term 3 or later.

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

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

This program is designed to provide students with the first year units included in the Medical Science degree. The inclusion of additional preparatory units is designed to assist students in the transition to study at University level. The Diploma is delivered via extended face to face hours in smaller learning environments. Students who successfully complete this Diploma will articulate into the Medical Science degree with up to one year (80 credit points) equivalent of advanced standing.

For more information on Western Sydney University, The College, please refer to their web site.

Study Mode

One and a half years full-time (four terms). Students will be required to attend the Hawkesbury and Campbelltown campuses for some learning experiences.

Location

Campus	Attendance	Mode
The College - Nirimba Education Precinct	Full Time	Internal

Admission

Extended course:

Recent School Leavers:

Completion of Year 12 with specified ATAR to be determined year by year.

Non-credentialed Students:

Australian Citizens and Permanent Residents who are aged 17 years or over.

International Students:

IELTS 5.5 with minimum 5.0 in each sub band; or equivalent results from The College English Language Program or The College English Entrance Test; and completion of year 11 or equivalent with specified results.

Course Structure

Students are categorised into three Pathways. See individual links below for detailed course structure.

School Leavers

A7260.1 WSTC Science Extended - Medical Science - Recent School Leavers

Non-Credentialed Students

A7261.1 WSTC Science Extended - Medical Science - Non-Credentialed

International Students

A7262.1 WSTC Science Extended - Medical Science - International

Diploma in Science Extended - Natural Science**7121.2**

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

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

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

This program is designed to provide students with the first year units included in the Natural Science degree. The inclusion of additional preparatory units is designed to assist students in the transition to study at University level. The Diploma is delivered via extended face to face hours in smaller learning environments.

Students who successfully complete this Diploma will articulate into the Natural Science degree with up to one year (80 credit points) equivalent of advanced standing.

For more information on Western Sydney University, The College, please refer to their website.

Study Mode

One and a half years full-time (four terms). Students will be required to attend the Hawkesbury and Campbelltown campuses for some learning experiences.

Location

Campus	Attendance	Mode
The College - Nirimba Education Precinct	Full Time	Internal

Admission

Recent School Leavers
Completion of Year 12 with specified ATAR to be determined year by year.

Non-credentialed Students

Australian Citizens and Permanent Residents who are aged 17 years or over.

International Students

IELTS 5.5 with minimum 5.0 in each sub band; or equivalent results from The College English Language Program or The College English Entrance Test; and completion of year 11 or equivalent with specified results.

Course Structure

Students are categorised into three Pathways. See individual links below for detailed course structure.

School Leavers

A7239.1 WSTC Science Extended - Natural Science - School Leavers

Non-credentialed Students

A7240.1 WSTC Science Extended - Natural Science - Non-Credentialed

International Students

A7241.1 WSTC Science Extended - Natural Science - International Students

Diploma in Science Extended - Science**7122.2**

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

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

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

This program is designed to provide students with the first year units included in the Science degrees. The inclusion of additional preparatory units is designed to assist students in the transition to study at University level. The Diploma is delivered via extended face to face hours in smaller learning environments.

Students who successfully complete this Diploma will articulate into the Science degrees with up to one year (80 credit points) equivalent of advanced standing.

For more information on Western Sydney University, The College, please refer to their website.

Study Mode

One and a half years full-time (four terms). Students will be required to attend the Hawkesbury and Campbelltown campuses for some learning experiences.

Location

Campus	Attendance	Mode
The College - Nirimba Education Precinct	Full Time	Internal

Admission

Recent School Leavers

Completion of Year 12 with specified ATAR to be determined year by year.

Non-credentialed Students

Australian Citizens and Permanent Residents who are aged 17 years or over.

International Students

IELTS 5.5 with minimum 5.0 in each sub band; or equivalent results from The College English Language Program or The College English Entrance Test; and completion of year 11 or equivalent with specified results.

Course Structure

Students are categorised into three Pathways. See individual links below for detailed course structure.

School Leavers

A7242.1 WSTC Science Extended - Science - School Leavers

Non-Credentialed Students

A7243.1 WSTC Science Extended - Science - Non-Credentialed Students

International Students

A7244.1 WSTC Science Extended - Science - International Students

Diploma in Science Fast Track

7009.5

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

Units may be revised or replaced to ensure students are provided with up to date curriculum throughout their studies, and this may result in a new course version. Refer

to the Check My Course Progress page in MySR for the most up to date information for your course.

This course is designed to engage students in, and further prepare students for, tertiary study in science. It presents students with first year level Bachelor of Science units and aims to produce students who are fully prepared for study beyond the first year of the Bachelor of Science degree. It is delivered in a smaller, more supportive learning environment than usually found in first year undergraduate programs.

Students who successfully complete the Diploma in Science Fast Track will articulate into Bachelor of Science or Bachelor of Science (Chemistry or Biological Sciences or Nutrition and Food or Forensic Science or Environmental Science or Zoology) or Bachelor of Medical Science (Medicinal Chemistry or Anatomy and Physiology or Biomedical Science) or Bachelor of Natural Science (Animal Science or Environmental Management) or Bachelor of Medical Science (Forensic Mortuary Practice) at Western Sydney University with up to one year equivalent of advanced standing (80 credit points).

For more information on Western Sydney University, The College, please refer to their web site.

Study Mode

Eight months full-time (two terms) or four terms part-time

Location

Campus	Attendance	Mode
The College - Nirimba Education Precinct	Full Time	Internal

Admission

The aim of the course is to prepare students for tertiary study in Science. The Diploma is accredited by the University, as principal, to enable its agent, Western Sydney University, The College to produce students who are fully prepared for study beyond the first year of a tertiary award.

Local students entering this Diploma are required to have

- Completed an English unit in the NSW Higher School Certificate Or
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher.

Students are also assumed to have completed some study in Mathematics and Science at senior high school level or its equivalent.

Met other entry requirements such as

- An ATAR identified prior to the offer of a place (the ATAR will be set each year at a level below that for admission for the Bachelor of Science) Or
- Completed The College Foundation Studies course with a Grade Point Average of 6.0 or higher.

International students entering the Diploma must satisfy one of the following language requirements

- IELTS 6.0 with a minimum 5.5 in each sub band Or

- Completed The College EAP 4 course with a 50% pass Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher.

Students are also assumed to have completed some study in Mathematics and Science at senior high school level or its equivalent.

Academic Entry Requirements vary according to country of origin. However, in general

- Completion of Year 12 or its equivalent is the minimum entry requirement Or
- Completed The College Foundation Studies course with a Grade Point Average of 6.0 or higher.

Course Structure

Students must pass the following non-award unit which does not count for credit towards the Diploma

700173.2 Tertiary Study Skills in Science (WSTC Prep)

Students must pass the following units

700125.2 Cell Biology (WSTC)
700122.2 Essential Chemistry 2 (WSTC)
700124.2 Scientific Literacy (WSTC)

Choose one of

700121.3 Essential Chemistry 1 (WSTC)
700155.2 Introductory Chemistry (WSTC)

Bachelor of Science (Forensic Science or Chemistry) students must choose 700121 Essential Chemistry 1 (WSTC).

Choose one of

700095.2 Biodiversity (WSTC)
700035.4 Physics 1 (WSTC)

Bachelor of Science (Chemistry) and Bachelor of Medical Science (Forensic Mortuary Practice) students must choose 700035 Physics 1 (WSTC).

Choose one of

700033.4 Biometry (WSTC)
700123.2 Quantitative Thinking (WSTC)

Bachelor of Medical Science (Forensic Mortuary Practice) students must choose 700033 Biometry (WSTC).

Students must also pass two units dependent upon the Western Sydney University degree they wish to enter on successful completion of their studies.

Students progressing to Bachelor of Medical Science (Medicinal Chemistry or Anatomy and Physiology or Biomedical Science) or Bachelor of Medical Science (Forensic Mortuary Practice) must choose

700266.1 Concepts in Human Anatomy (WSTC)
700098.2 Introduction to Physiology (WSTC)

Students progressing to Bachelor of Natural Science (Animal Science or Environmental Management) or Bachelor of Science (Chemistry) must choose

700096.3 Integrated Science (WSTC)

700099.2 Resource Sustainability (WSTC)

Students progressing to Bachelor of Science must choose

700096.3 Integrated Science (WSTC)
700098.2 Introduction to Physiology (WSTC)

Students progressing to Bachelor of Science (Forensic Science) must choose

700266.1 Concepts in Human Anatomy (WSTC)
700096.3 Integrated Science (WSTC)

Students progressing to Bachelor of Science (Biological Sciences) must choose

700099.2 Resource Sustainability (WSTC)

And choose one of

700096.3 Integrated Science (WSTC)
700099.2 Resource Sustainability (WSTC)

Students progressing to Bachelor of Science (Nutrition and Food) must choose

700098.2 Introduction to Physiology (WSTC)
700265.1 Food Science 1 (WSTC)

Students progressing to Bachelor of Science (Environmental Science) must choose

700099.2 Resource Sustainability (WSTC)

And choose one of

700096.3 Integrated Science (WSTC)
700098.2 Introduction to Physiology (WSTC)

Students progressing to Bachelor of Science (Zoology) must choose any two of

700096.3 Integrated Science (WSTC)
700098.2 Introduction to Physiology (WSTC)
700099.2 Resource Sustainability (WSTC)

Bachelor of Science (Pathway to Teaching Primary/Secondary)

3756.1

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year in this course is 2020 or later.

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

This degree combines Science with learning about Education. Science asks questions about how the natural world works and the impact of humans at its interface. It does so in a systematic, yet rigorously creative way based on inquiry and evidence for ideas. A Bachelor of Science will prepare you to take part in this process of inquiry, by both contributing to it and by using scientific knowledge to solve current problems in broad settings including in society. Students will learn core concepts and skills

investigating the natural world, proposing and testing ideas by experimentation and observation; quantifying and modelling processes; communicating findings, thinking independently and critically. Students can enrol in this degree and select from a range of scientific disciplines with the option of expanding learning into other areas outside of science. Students need note that different majors are offered on different campuses. Students will also take 4 units of study in Education.. Students will be offered a place into the M.Teach program on successful completion of the degree.

Study Mode

Three years full-time or Six years part-time.

Location

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

Admission

Assumed Knowledge: Students should have at least two unit English, and two unit science (any science) and two unit mathematics at year 12 equivalent.

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

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

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

International applicants must apply directly to the University via the International Office. International students applying to the University through the International Office can find details of minimum English proficiency requirements and acceptable proof on their website.

Course Structure

Qualification for this award requires the completion of 240 credit points which includes: 80 credit points of core units, 80 credit points taken as a Science specialisation, 40 credit points taken within the sub-major Education Studies (SM1100) and 40 credit points of elective units.

Students must complete at least 60 credit points at Level 3 or above. Depending on the specialisation selected, students may need to select at least 10 credit points of elective study at Level 3 to meet this requirement.

Core Units

All students are required to complete the following three units:

300811.1	Scientific Literacy
300808.2	Introductory Chemistry
300802.2	Biodiversity

Students are allocated a core unit from the following areas depending on the specialisation chosen. Students should consult the sequence of units identified for each specialisation.

Foundation

Choose one of

300816.1	Cell Biology
300803.1	Essential Chemistry 2

Mathematics

Choose one of

300831.3	Quantitative Thinking
300672.2	Mathematics 1A
200263.5	Biometry

Analytical Science

Choose one of

300580.3	Programming Fundamentals
300936.1	Functional Proteins and Genes
300843.1	Forensic and Environmental Analysis
300932.1	Natural Science Research Methods
300832.1	Analytical Chemistry

Work Integrated Learning

Note: Work integrated learning units will be available by mid-year 2019

Capstone

Choose one of

300883.1	Laboratory Quality Management
300909.1	Biological Adaptation to Climate Change
200022.3	Mathematical Modelling
301110.1	Applications of Big Data
300913.1	Field Project 1
300922.2	Quality Assurance and Food Analysis

Sub-major Education Studies

Students must complete the sub-major Education Studies (SM1100).

Specialisations

Students are required to complete eight specialisation core units from one of the following Science testamur majors. Students may only select one testamur major:

MT3014.1	Zoology
MT3015.1	Animal Science
MT3016.1	Biology
MT3017.1	Ecology
MT3018.1	Environmental Futures
MT3031.1	Environmental Health
MT3019.1	Microbiology

MT3021.1	Nutrition and Food Science
MT3024.1	Forensic Biology
MT3023.1	Forensic Chemistry
MT3025.1	Mathematics
MT3032.1	Data Science
MT3026.1	Applied Physics
MT3027.1	Chemistry

Electives

Students may use their elective units to complete an additional specialisation from the wide range of units offered by Western Sydney University.

Enrolment in elective units is subject to meeting any required criteria for individual units, such as co-requisites and pre-requisites.

Specialisations

The College Admission Pathway - WSTC Science Extended Local Recent School Leavers / Non-Credentialed applicants

A7079.1

Specialisation Structure

Students must be enrolled in 7086 - Diploma in Science Extended to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

- 700230.2** Academic Skills for Science (WSTC Prep)
- 700231.3** Fundamentals of Science (WSTC Prep)
- 700232.3** Focus on Biology (WSTC Prep)
- 700287.1** Interpreting Data In Science (WSTC Prep)

Term 2 of Study

Level Z units

- 700043.3** Chemistry (WSTC Prep)
- 700173.2** Tertiary Study Skills in Science (WSTC Prep)

Level 1 units

- 700124.2** Scientific Literacy (WSTC)

Choose one of

- 700095.2** Biodiversity (WSTC)
- 700035.4** Physics 1 (WSTC)

Bachelor of Science (Chemistry) students must choose 700035 - Physics 1 (WSTC)

Term 3 of Study

- 700122.2** Essential Chemistry 2 (WSTC)

Choose two units from the following (dependent upon which Western Sydney University degree students wish to enter upon successful completion of their studies)

Students progressing to Bachelor of Medical Science (Medicinal Chemistry or Anatomy and Physiology or Biomedical Science) or Bachelor of Medical Science (Forensic Mortuary Practice) must choose

- 700266.1** Concepts in Human Anatomy (WSTC)
- 700098.2** Introduction to Physiology (WSTC)

Students progressing to Bachelor of Natural Science (Animal Science or Environmental Management) or Bachelor of Science(Chemistry) must choose

- 700096.3** Integrated Science (WSTC)
- 700099.2** Resource Sustainability (WSTC)

Students progressing to Bachelor of Science must choose

- 700096.3** Integrated Science (WSTC)
- 700098.2** Introduction to Physiology (WSTC)

Students progressing to Bachelor of Science (Forensic Science) must choose

- 700266.1** Concepts in Human Anatomy (WSTC)
- 700096.3** Integrated Science (WSTC)

Students progressing to Bachelor of Science (Biological Sciences) must choose

- 700098.2** Introduction to Physiology (WSTC)

And choose one of

- 700096.3** Integrated Science (WSTC)
- 700099.2** Resource Sustainability (WSTC)

Students progressing to Bachelor of Science (Nutrition and Food) must choose

- 700265.1** Food Science 1 (WSTC)
- 700098.2** Introduction to Physiology (WSTC)

(700265 Food Science 1 is to be studied in Spring at Hawkesbury campus)

Students progressing to Bachelor of Science (Environmental Science) must choose

- 700099.2** Resource Sustainability (WSTC)

And choose one of

- 700096.3** Integrated Science (WSTC)
- 700098.2** Introduction to Physiology (WSTC)

Students progressing to Bachelor of Science (Zoology) must choose two of

- 700096.3** Integrated Science (WSTC)
- 700098.2** Introduction to Physiology (WSTC)
- 700099.2** Resource Sustainability (WSTC)

Term 4 of Study

- 700125.2** Cell Biology (WSTC)
- 700155.2** Introductory Chemistry (WSTC)

Choose one of

- 700033.4** Biometry (WSTC)
- 700123.2** Quantitative Thinking (WSTC)

Bachelor of Medical Science (Forensic Mortuary Practice) students must choose 700033 Biometry (WSTC)

The College Admission Pathway - WSTC Science Extended International Students

A7080.1

Specialisation Structure

Students must be enrolled in 7086 - Diploma in Science Extended to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

700230.2	Academic Skills for Science (WSTC Prep)
700270.1	English for International Students 1 (WSTC Prep)
700231.3	Fundamentals of Science (WSTC Prep)
700232.3	Focus on Biology (WSTC Prep)
700287.1	Interpreting Data In Science (WSTC Prep)

Term 2 of Study

Level Z units

700043.3	Chemistry (WSTC Prep)
700173.2	Tertiary Study Skills in Science (WSTC Prep)

Level 1 units

700124.2	Scientific Literacy (WSTC)
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Choose one of

700095.2	Biodiversity (WSTC)
700035.4	Physics 1 (WSTC)

Bachelor of Science (Chemistry) students must choose 700035 - Physics 1 (WSTC)

Term 3 of Study

700122.2	Essential Chemistry 2 (WSTC)
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Choose two units from the following (dependent upon which Western Sydney University degree students wish to enter upon successful completion of their studies)

Students progressing to Bachelor of Medical Science (Medicinal Chemistry or Anatomy and Physiology or Biomedical Science) or Bachelor of Medical Science (Forensic Mortuary Practice) must choose

700266.1	Concepts in Human Anatomy (WSTC)
700098.2	Introduction to Physiology (WSTC)

Students progressing to Bachelor of Natural Science (Animal Science or Environmental Management) or Bachelor of Science (Chemistry) must choose

700099.2	Resource Sustainability (WSTC)
700096.3	Integrated Science (WSTC)

Students progressing to Bachelor of Science must choose

700096.3	Integrated Science (WSTC)
700098.2	Introduction to Physiology (WSTC)

Students progressing to Bachelor of Science (Forensic Science) must choose

700266.1	Concepts in Human Anatomy (WSTC)
700096.3	Integrated Science (WSTC)

Students progressing to Bachelor of Science (Biological Sciences) must choose

700098.2	Introduction to Physiology (WSTC)
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And choose one of

700096.3	Integrated Science (WSTC)
700099.2	Resource Sustainability (WSTC)

Students progressing to Bachelor of Science (Nutrition and Food) must choose

700265.1	Food Science 1 (WSTC)
700098.2	Introduction to Physiology (WSTC)

(700265 Food Science 1 is to be studied in Spring at Hawkesbury campus)

Students progressing to Bachelor of Science (Environmental Science) must choose

700099.2	Resource Sustainability (WSTC)
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And choose one of

700096.3	Integrated Science (WSTC)
700098.2	Introduction to Physiology (WSTC)

Students progressing to Bachelor of Science (Zoology) must choose two of

700099.2	Resource Sustainability (WSTC)
700096.3	Integrated Science (WSTC)
700098.2	Introduction to Physiology (WSTC)

Term 4 of Study

700125.2	Cell Biology (WSTC)
700155.2	Introductory Chemistry (WSTC)

Choose one of

700033.4	Biometry (WSTC)
700123.2	Quantitative Thinking (WSTC)

Bachelor of Medical Science (Forensic Mortuary Practice) students must choose 700033 Biometry (WSTC)

The College Admission Pathway - WSTC Health Science Extended - Recent School Leavers

A7232.1

Specialisation Structure

Students must be enrolled in 7142 - Diploma in Health Science Extended - Science to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

- 700225.3** Academic Skills for Health Science (WSTC Prep)
- 700279.1** Empowering Individual Health (WSTC Prep)
- 700226.2** Health Care Environments (WSTC Prep)
- 700227.2** Literacy in Health Science (WSTC Prep)

Term 2 of Study

Level Z units

- 700056.3** Academic English (WSTC Prep)
- 700190.2** Fundamentals of Health Science (WSTC Prep)
- 700170.2** Tertiary Study Skills in Health Science (WSTC Prep)

Level 1 units

- 700062.3** Communication in Health (WSTC)
- 700067.2** Professional Health Competencies (WSTC)

Term 3 of Study

- 700065.3** Approaches to Health Promotion (WSTC)
- 700064.2** Foundations of Research and Evidence-Based Practice (WSTC)
- 700075.2** Professional Pathways in Health Science (WSTC)

Term 4 of Study

- 700061.3** Introduction to Human Biology (WSTC)
- 700066.3** Population Health and Society (WSTC)
- 700060.3** Psychology and Health (WSTC)

The College Admission Pathway - WSTC Health Science Extended - Non-Credentialed Students

A7233.1

Specialisation Structure

Students must be enrolled in 7142 - Diploma in Health Science Extended - Science to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

- 700225.3** Academic Skills for Health Science (WSTC Prep)
- 700279.1** Empowering Individual Health (WSTC Prep)
- 700226.2** Health Care Environments (WSTC Prep)
- 700227.2** Literacy in Health Science (WSTC Prep)

Term 2 of Study

Level Z units

- 700056.3** Academic English (WSTC Prep)
- 700190.2** Fundamentals of Health Science (WSTC Prep)
- 700170.2** Tertiary Study Skills in Health Science (WSTC Prep)

Level 1 units

- 700062.3** Communication in Health (WSTC)
- 700067.2** Professional Health Competencies (WSTC)

Term 3 of Study

- 700065.3** Approaches to Health Promotion (WSTC)
- 700064.2** Foundations of Research and Evidence-Based Practice (WSTC)
- 700075.2** Professional Pathways in Health Science (WSTC)

Term 4 of Study

- 700061.3** Introduction to Human Biology (WSTC)
- 700066.3** Population Health and Society (WSTC)
- 700060.3** Psychology and Health (WSTC)

The College Admission Pathway - WSTC Health Science (HPE) Extended - Recent School Leavers

A7234.1

Specialisation Structure

Students must be enrolled in 7143 - Diploma in Health Science (HPE) Extended - Science to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program:

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

- 700225.3** Academic Skills for Health Science (WSTC Prep)
- 700279.1** Empowering Individual Health (WSTC Prep)
- 700227.2** Literacy in Health Science (WSTC Prep)
- 700226.2** Health Care Environments (WSTC Prep)

Term 2 of Study

Level Z units

700056.3	Academic English (WSTC Prep)
700190.2	Fundamentals of Health Science (WSTC Prep)
700170.2	Tertiary Study Skills in Health Science (WSTC Prep)

Level 1 units

700062.3	Communication in Health (WSTC)
700067.2	Professional Health Competencies (WSTC)

Term 3 of Study

700065.3	Approaches to Health Promotion (WSTC)
700064.2	Foundations of Research and Evidence-Based Practice (WSTC)
700073.2	Fundamentals of Exercise Science (WSTC)

Term 4 of Study

700061.3	Introduction to Human Biology (WSTC)
700066.3	Population Health and Society (WSTC)
700060.3	Psychology and Health (WSTC)

The College Admission Pathway - WSTC Health Science (HPE) Extended - Non-Credentialed Students

A7235.1

Specialisation Structure

Students must be enrolled in 7143 - Diploma in Health Science (HPE) Extended - Science to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program:

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

700225.3	Academic Skills for Health Science (WSTC Prep)
700279.1	Empowering Individual Health (WSTC Prep)
700226.2	Health Care Environments (WSTC Prep)
700227.2	Literacy in Health Science (WSTC Prep)

Term 2 of Study

Level Z units

700056.3	Academic English (WSTC Prep)
700190.2	Fundamentals of Health Science (WSTC Prep)
700170.2	Tertiary Study Skills in Health Science (WSTC Prep)

Level 1 units

700062.3	Communication in Health (WSTC)
700067.2	Professional Health Competencies (WSTC)

Term 3 of Study

700065.3	Approaches to Health Promotion (WSTC)
700064.2	Foundations of Research and Evidence-Based Practice (WSTC)
700073.2	Fundamentals of Exercise Science (WSTC)

Term 4 of Study

700061.3	Introduction to Human Biology (WSTC)
700066.3	Population Health and Society (WSTC)
700060.3	Psychology and Health (WSTC)

The College Admission Pathway - WSTC Science Extended - Natural Science - School Leavers

A7239.1

Specialisation Structure

Students must be enrolled in 7121 - Diploma in Science Extended - Natural Science to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

700230.2	Academic Skills for Science (WSTC Prep)
700231.3	Fundamentals of Science (WSTC Prep)
700232.3	Focus on Biology (WSTC Prep)
700287.1	Interpreting Data In Science (WSTC Prep)

Term 2 of Study

Level Z units

700043.3	Chemistry (WSTC Prep)
700173.2	Tertiary Study Skills in Science (WSTC Prep)

Level 1 units

700124.2	Scientific Literacy (WSTC)
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Choose one of

700095.2	Biodiversity (WSTC)
700035.4	Physics 1 (WSTC)

Term 3 of Study

700122.2	Essential Chemistry 2 (WSTC)
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Choose two units from the following (dependent upon which Western Sydney University degree students wish to enter upon successful completion of their studies)

700266.1	Concepts in Human Anatomy (WSTC)
700265.1	Food Science 1 (WSTC)
700096.3	Integrated Science (WSTC)
700098.2	Introduction to Physiology (WSTC)

700099.2 Resource Sustainability (WSTC)

(700265 Food Science 1 is to be studied in Spring at Hawkesbury campus)

Bachelor of Natural Science (Animal Science or Environmental Management) students must choose 700099 Resource Sustainability (WSTC) and 700096 Integrated Science (WSTC)

Term 4 of Study

700125.2 Cell Biology (WSTC)
700155.2 Introductory Chemistry (WSTC)

Choose one of

700033.4 Biometry (WSTC)
700123.2 Quantitative Thinking (WSTC)

Students will graduate with the Diploma after gaining a passing grade in all of the above units.

The College Admission Pathway - WSTC Science Extended - Natural Science - Non-Credentialed

A7240.1**Specialisation Structure**

Students must be enrolled in 7121 - Diploma in Science Extended - Natural Science to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

700230.2 Academic Skills for Science (WSTC Prep)
700287.1 Interpreting Data In Science (WSTC Prep)
700231.3 Fundamentals of Science (WSTC Prep)
700232.3 Focus on Biology (WSTC Prep)

Term 2 of Study

Level Z units

700043.3 Chemistry (WSTC Prep)
700173.2 Tertiary Study Skills in Science (WSTC Prep)

Level 1 units

700124.2 Scientific Literacy (WSTC)

Choose one of

700095.2 Biodiversity (WSTC)
700035.4 Physics 1 (WSTC)

Term 3 of Study

700122.2 Essential Chemistry 2 (WSTC)

Choose two units from the following (dependent upon which Western Sydney University degree students wish to enter upon successful completion of their studies)

700266.1 Concepts in Human Anatomy (WSTC)
700265.1 Food Science 1 (WSTC)
700096.3 Integrated Science (WSTC)
700098.2 Introduction to Physiology (WSTC)
700099.2 Resource Sustainability (WSTC)

(700265 Food Science 1 is to be studied in Spring at Hawkesbury campus)

Bachelor of Natural Science (Animal Science or Environmental Management) students must choose 700099 Resource Sustainability (WSTC) and 700096 Integrated Science (WSTC)

Term 4 of Study

700125.2 Cell Biology (WSTC)
700155.2 Introductory Chemistry (WSTC)

Choose one of

700033.4 Biometry (WSTC)
700123.2 Quantitative Thinking (WSTC)

Students will graduate with the Diploma after gaining a passing grade in all of the above units.

The College Admission Pathway - WSTC Science Extended - Natural Science - International Students

A7241.1**Specialisation Structure**

Students must be enrolled in 7121 - Diploma in Science Extended - Natural Science to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

700230.2 Academic Skills for Science (WSTC Prep)
700270.1 English for International Students 1 (WSTC Prep)
700232.3 Focus on Biology (WSTC Prep)
700231.3 Fundamentals of Science (WSTC Prep)
700287.1 Interpreting Data In Science (WSTC Prep)

Term 2 of Study

Level Z units

700043.3 Chemistry (WSTC Prep)
700173.2 Tertiary Study Skills in Science (WSTC Prep)

Level 1 units

700124.2 Scientific Literacy (WSTC)

Choose one of

- 700095.2** Biodiversity (WSTC)
700035.4 Physics 1 (WSTC)

Term 3 of Study

- 700122.2** Essential Chemistry 2 (WSTC)

Choose two units from the following (dependent upon which Western Sydney University degree students wish to enter upon successful completion of their studies)

- 700266.1** Concepts in Human Anatomy (WSTC)
700265.1 Food Science 1 (WSTC)
700096.3 Integrated Science (WSTC)
700098.2 Introduction to Physiology (WSTC)
700099.2 Resource Sustainability (WSTC)

(700265 Food Science 1 is to be studied in Spring at Hawkesbury campus)

Bachelor of Natural Science (Animal Science or Environmental Management) students must choose 700099 Resource Sustainability (WSTC) and 700096 Integrated Science (WSTC)

Term 4 of Study

- 700125.2** Cell Biology (WSTC)
700155.2 Introductory Chemistry (WSTC)

Choose one of

- 700033.4** Biometry (WSTC)
700123.2 Quantitative Thinking (WSTC)

Students will graduate with the Diploma after gaining a passing grade in all of the above units.

The College Admission Pathway - WSTC Science Extended - Science - School Leavers

A7242.1

Specialisation Structure

Students must be enrolled in 7122 - Diploma in Science Extended - Science to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

- 700230.2** Academic Skills for Science (WSTC Prep)
700231.3 Fundamentals of Science (WSTC Prep)
700232.3 Focus on Biology (WSTC Prep)
700287.1 Interpreting Data In Science (WSTC Prep)

Term 2 of Study

Level Z units

- 700043.3** Chemistry (WSTC Prep)

- 700173.2** Tertiary Study Skills in Science (WSTC Prep)

Level 1 units

- 700124.2** Scientific Literacy (WSTC)

Choose one of

- 700095.2** Biodiversity (WSTC)
700035.4 Physics 1 (WSTC)

Bachelor of Science (Chemistry) must choose 700035 - Physics 1 (WSTC)

Term 3 of Study

- 700122.2** Essential Chemistry 2 (WSTC)

Choose two units from the following (dependent upon which Western Sydney University degree students wish to enter upon successful completion of their studies)

- 700266.1** Concepts in Human Anatomy (WSTC)
700265.1 Food Science 1 (WSTC)
700096.3 Integrated Science (WSTC)
700098.2 Introduction to Physiology (WSTC)
700099.2 Resource Sustainability (WSTC)

(700265 Food Science 1 is to be studied in Spring at Hawkesbury campus)

The recommended units to be chosen for each University degree are detailed below

Term 4 of Study

- 700125.2** Cell Biology (WSTC)
700155.2 Introductory Chemistry (WSTC)

Choose one of

- 700033.4** Biometry (WSTC)
700123.2 Quantitative Thinking (WSTC)

The recommended units to be chosen from the five alternate units listed above for each University degree are detailed below

Students planning to progress to Bachelor of Science (Biological Sciences), the following pattern is recommended

- 700095.2** Biodiversity (WSTC)
700125.2 Cell Biology (WSTC)
700122.2 Essential Chemistry 2 (WSTC)
700098.2 Introduction to Physiology (WSTC)
700155.2 Introductory Chemistry (WSTC)
700124.2 Scientific Literacy (WSTC)

Choose one of

- 700033.4** Biometry (WSTC)
700123.2 Quantitative Thinking (WSTC)

Choose one of

- 700096.3** Integrated Science (WSTC)
700099.2 Resource Sustainability (WSTC)

Students planning to progress to Bachelor of Science (Chemistry) must choose

- 700124.2** Scientific Literacy (WSTC)
700122.2 Essential Chemistry 2 (WSTC)
700035.4 Physics 1 (WSTC)

700155.2 Introductory Chemistry (WSTC)

Choose four of

- 700095.2** Biodiversity (WSTC)
- 700033.4** Biometry (WSTC)
- 700125.2** Cell Biology (WSTC)
- 700096.3** Integrated Science (WSTC)
- 700098.2** Introduction to Physiology (WSTC)
- 700123.2** Quantitative Thinking (WSTC)
- 700099.2** Resource Sustainability (WSTC)

Students planning to progress to Bachelor of Science must choose

700124.2 Scientific Literacy (WSTC)

Choose one of

- 700033.4** Biometry (WSTC)
- 700123.2** Quantitative Thinking (WSTC)

Choose six of

- 700095.2** Biodiversity (WSTC)
- 700125.2** Cell Biology (WSTC)
- 700122.2** Essential Chemistry 2 (WSTC)
- 700096.3** Integrated Science (WSTC)
- 700098.2** Introduction to Physiology (WSTC)
- 700155.2** Introductory Chemistry (WSTC)
- 700099.2** Resource Sustainability (WSTC)

Please note that choices in first year will impact on available majors in second year. It is recommended that students seek academic advice if taking this sequence.

Students planning to progress to Bachelor of Science (Forensic Science) must choose

- 700095.2** Biodiversity (WSTC)
- 700033.4** Biometry (WSTC)
- 700125.2** Cell Biology (WSTC)
- 700266.1** Concepts in Human Anatomy (WSTC)
- 700122.2** Essential Chemistry 2 (WSTC)
- 700155.2** Introductory Chemistry (WSTC)
- 700124.2** Scientific Literacy (WSTC)

Choose one of

- 700098.2** Introduction to Physiology (WSTC)
- 700096.3** Integrated Science (WSTC)
- 700123.2** Quantitative Thinking (WSTC)
- 700099.2** Resource Sustainability (WSTC)

Students planning to progress to Bachelor of Science Nutrition and Food Science) must choose

- 700095.2** Biodiversity (WSTC)
- 700125.2** Cell Biology (WSTC)
- 700122.2** Essential Chemistry 2 (WSTC)
- 700265.1** Food Science 1 (WSTC)
- 700155.2** Introductory Chemistry (WSTC)
- 700123.2** Quantitative Thinking (WSTC)
- 700124.2** Scientific Literacy (WSTC)

Choose one of

- 700033.4** Biometry (WSTC)
- 700096.3** Integrated Science (WSTC)
- 700098.2** Introduction to Physiology (WSTC)
- 700099.2** Resource Sustainability (WSTC)

Students planning to progress to Bachelor of Science (Environmental Science) must choose

- 700095.2** Biodiversity (WSTC)
- 700125.2** Cell Biology (WSTC)
- 700122.2** Essential Chemistry 2 (WSTC)
- 700155.2** Introductory Chemistry (WSTC)
- 700099.2** Resource Sustainability (WSTC)
- 700124.2** Scientific Literacy (WSTC)

Choose one of

- 700033.4** Biometry (WSTC)
- 700123.2** Quantitative Thinking (WSTC)

Choose one of

- 700096.3** Integrated Science (WSTC)
- 700098.2** Introduction to Physiology (WSTC)

Students planning to progress to Bachelor of Science (Zoology) must choose

- 700095.2** Biodiversity (WSTC)
- 700125.2** Cell Biology (WSTC)
- 700122.2** Essential Chemistry 2 (WSTC)
- 700155.2** Introductory Chemistry (WSTC)
- 700124.2** Scientific Literacy (WSTC)

Choose one of

- 700033.4** Biometry (WSTC)
- 700155.2** Introductory Chemistry (WSTC)

Choose two of

- 700096.3** Integrated Science (WSTC)
- 700098.2** Introduction to Physiology (WSTC)
- 700099.2** Resource Sustainability (WSTC)

Students will graduate with the Diploma after gaining a passing grade in all of the above units.

The College Admission Pathway - WSTC Science Extended - Science - Non-Credentialed Students

A7243.1

Specialisation Structure

Students must be enrolled in 7122 - Diploma in Science Extended - Science to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

- 700230.2** Academic Skills for Science (WSTC Prep)
- 700232.3** Focus on Biology (WSTC Prep)
- 700231.3** Fundamentals of Science (WSTC Prep)
- 700287.1** Interpreting Data In Science (WSTC Prep)

Term 2 of Study

Level Z units

- 700043.3** Chemistry (WSTC Prep)
700173.2 Tertiary Study Skills in Science (WSTC Prep)

Level 1 units

- 700124.2** Scientific Literacy (WSTC)

Choose one of

- 700095.2** Biodiversity (WSTC)
700035.4 Physics 1 (WSTC)

Bachelor of Science (Chemistry) must choose 700035 - Physics 1 (WSTC)

Term 3 of Study

- 700122.2** Essential Chemistry 2 (WSTC)

Choose two units from the following (dependent upon which Western Sydney University degree students wish to enter upon successful completion of their studies)

- 700266.1** Concepts in Human Anatomy (WSTC)
700265.1 Food Science 1 (WSTC)
700096.3 Integrated Science (WSTC)
700098.2 Introduction to Physiology (WSTC)
700099.2 Resource Sustainability (WSTC)

(700265 Food Science 1 is to be studied in Spring at Hawkesbury campus)

The recommended units to be chosen for each University degree are detailed below

Term 4 of Study

- 700125.2** Cell Biology (WSTC)
700155.2 Introductory Chemistry (WSTC)

Choose one of

- 700033.4** Biometry (WSTC)
700123.2 Quantitative Thinking (WSTC)

The recommended units to be chosen from the five alternate units listed above for each University degree are detailed below

Students planning to progress to Bachelor of Science (Biological Sciences), the following pattern is recommended

- 700095.2** Biodiversity (WSTC)
700125.2 Cell Biology (WSTC)
700122.2 Essential Chemistry 2 (WSTC)
700098.2 Introduction to Physiology (WSTC)
700155.2 Introductory Chemistry (WSTC)
700124.2 Scientific Literacy (WSTC)

Choose one of

- 700033.4** Biometry (WSTC)
700123.2 Quantitative Thinking (WSTC)

Choose one of

- 700096.3** Integrated Science (WSTC)
700099.2 Resource Sustainability (WSTC)

Students planning to progress to Bachelor of Science (Chemistry) must choose

- 700122.2** Essential Chemistry 2 (WSTC)
700155.2 Introductory Chemistry (WSTC)
700035.4 Physics 1 (WSTC)
700124.2 Scientific Literacy (WSTC)

Choose four of

- 700033.4** Biometry (WSTC)
700095.2 Biodiversity (WSTC)
700125.2 Cell Biology (WSTC)
700096.3 Integrated Science (WSTC)
700098.2 Introduction to Physiology (WSTC)
700123.2 Quantitative Thinking (WSTC)
700099.2 Resource Sustainability (WSTC)

Students planning to progress to Bachelor of Science must choose

- 700124.2** Scientific Literacy (WSTC)

Choose one of

- 700033.4** Biometry (WSTC)
700123.2 Quantitative Thinking (WSTC)

Choose six of

- 700095.2** Biodiversity (WSTC)
700125.2 Cell Biology (WSTC)
700122.2 Essential Chemistry 2 (WSTC)
700096.3 Integrated Science (WSTC)
700098.2 Introduction to Physiology (WSTC)
700155.2 Introductory Chemistry (WSTC)
700099.2 Resource Sustainability (WSTC)

Please note that choices in first year will impact on available majors in second year. It is recommended that students seek academic advice if taking this sequence.

Students planning to progress to Bachelor of Science (Forensic Science) must choose

- 700095.2** Biodiversity (WSTC)
700033.4 Biometry (WSTC)
700125.2 Cell Biology (WSTC)
700266.1 Concepts in Human Anatomy (WSTC)
700122.2 Essential Chemistry 2 (WSTC)
700155.2 Introductory Chemistry (WSTC)
700124.2 Scientific Literacy (WSTC)

Choose one of

- 700098.2** Introduction to Physiology (WSTC)
700096.3 Integrated Science (WSTC)
700123.2 Quantitative Thinking (WSTC)
700099.2 Resource Sustainability (WSTC)

Students planning to progress to Bachelor of Science (Nutrition and Food Science) must choose

- 700095.2** Biodiversity (WSTC)
700125.2 Cell Biology (WSTC)
700122.2 Essential Chemistry 2 (WSTC)
700265.1 Food Science 1 (WSTC)
700155.2 Introductory Chemistry (WSTC)
700123.2 Quantitative Thinking (WSTC)
700124.2 Scientific Literacy (WSTC)

Choose one of

- 700033.4 Biometry (WSTC)
 700096.3 Integrated Science (WSTC)
 700098.2 Introduction to Physiology (WSTC)
 700099.2 Resource Sustainability (WSTC)

Students planning to progress to Bachelor of Science (Environmental Science) must choose

- 700095.2 Biodiversity (WSTC)
 700125.2 Cell Biology (WSTC)
 700122.2 Essential Chemistry 2 (WSTC)
 700155.2 Introductory Chemistry (WSTC)
 700099.2 Resource Sustainability (WSTC)
 700124.2 Scientific Literacy (WSTC)

Choose one of

- 700033.4 Biometry (WSTC)
 700123.2 Quantitative Thinking (WSTC)

Choose one of

- 700096.3 Integrated Science (WSTC)
 700098.2 Introduction to Physiology (WSTC)

Students planning to progress to Bachelor of Science (Zoology) must choose

- 700095.2 Biodiversity (WSTC)
 700125.2 Cell Biology (WSTC)
 700122.2 Essential Chemistry 2 (WSTC)
 700155.2 Introductory Chemistry (WSTC)
 700124.2 Scientific Literacy (WSTC)

Choose one of

- 700033.4 Biometry (WSTC)
 700155.2 Introductory Chemistry (WSTC)

Choose two of

- 700096.3 Integrated Science (WSTC)
 700098.2 Introduction to Physiology (WSTC)
 700099.2 Resource Sustainability (WSTC)

Students will graduate with the Diploma after gaining a passing grade in all of the above units.

The College Admission Pathway - WSTC Science Extended - Science - International Students

A7244.1

Specialisation Structure

Students must be enrolled in 7122 - Diploma in Science Extended - Science to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

- 700230.2 Academic Skills for Science (WSTC Prep)
 700270.1 English for International Students 1 (WSTC Prep)
 700232.3 Focus on Biology (WSTC Prep)
 700231.3 Fundamentals of Science (WSTC Prep)
 700287.1 Interpreting Data In Science (WSTC Prep)

Term 2 of Study

Level Z units

- 700043.3 Chemistry (WSTC Prep)
 700173.2 Tertiary Study Skills in Science (WSTC Prep)

Level 1 units

- 700124.2 Scientific Literacy (WSTC)

Choose one of

- 700095.2 Biodiversity (WSTC)
 700035.4 Physics 1 (WSTC)

Bachelor of Science (Chemistry) must choose 700035 - Physics 1 (WSTC)

Term 3 of Study

- 700122.2 Essential Chemistry 2 (WSTC)

Choose two units from the following (dependent upon which Western Sydney University degree students wish to enter upon successful completion of their studies)

- 700266.1 Concepts in Human Anatomy (WSTC)
 700265.1 Food Science 1 (WSTC)
 700096.3 Integrated Science (WSTC)
 700098.2 Introduction to Physiology (WSTC)
 700099.2 Resource Sustainability (WSTC)

(700265 Food Science 1 is to be studied in Spring at Hawkesbury campus)

The recommended units to be chosen for each University degree are detailed below

Term 4 of Study

- 700125.2 Cell Biology (WSTC)
 700155.2 Introductory Chemistry (WSTC)

Choose one of

- 700033.4 Biometry (WSTC)
 700123.2 Quantitative Thinking (WSTC)

The recommended units to be chosen from the five alternate units listed above for each University degree are detailed below

Students planning to progress to Bachelor of Science (Biological Sciences), the following pattern is recommended

- 700095.2 Biodiversity (WSTC)
 700125.2 Cell Biology (WSTC)
 700122.2 Essential Chemistry 2 (WSTC)
 700098.2 Introduction to Physiology (WSTC)
 700155.2 Introductory Chemistry (WSTC)
 700124.2 Scientific Literacy (WSTC)

Choose one of

- 700123.2 Quantitative Thinking (WSTC)
 700033.4 Biometry (WSTC)

Choose one of

- 700096.3** Integrated Science (WSTC)
700099.2 Resource Sustainability (WSTC)

Students planning to progress to Bachelor of Science (Chemistry) must choose

- 700122.2** Essential Chemistry 2 (WSTC)
700155.2 Introductory Chemistry (WSTC)
700035.4 Physics 1 (WSTC)
700124.2 Scientific Literacy (WSTC)

Choose four of

- 700033.4** Biometry (WSTC)
700095.2 Biodiversity (WSTC)
700125.2 Cell Biology (WSTC)
700096.3 Integrated Science (WSTC)
700098.2 Introduction to Physiology (WSTC)
700123.2 Quantitative Thinking (WSTC)
700099.2 Resource Sustainability (WSTC)

Students planning to progress to Bachelor of Science must choose

- 700124.2** Scientific Literacy (WSTC)

Choose one of

- 700033.4** Biometry (WSTC)
700123.2 Quantitative Thinking (WSTC)

Choose six of

- 700095.2** Biodiversity (WSTC)
700125.2 Cell Biology (WSTC)
700122.2 Essential Chemistry 2 (WSTC)
700096.3 Integrated Science (WSTC)
700098.2 Introduction to Physiology (WSTC)
700155.2 Introductory Chemistry (WSTC)
700099.2 Resource Sustainability (WSTC)

Please note that choices in first year will impact on available majors in second year. It is recommended that students seek academic advice if taking this sequence.

Students planning to progress to Bachelor of Science (Forensic Science) must choose

- 700033.4** Biometry (WSTC)
700095.2 Biodiversity (WSTC)
700125.2 Cell Biology (WSTC)
700266.1 Concepts in Human Anatomy (WSTC)
700122.2 Essential Chemistry 2 (WSTC)
700155.2 Introductory Chemistry (WSTC)
700124.2 Scientific Literacy (WSTC)

Choose one of

- 700098.2** Introduction to Physiology (WSTC)
700096.3 Integrated Science (WSTC)
700123.2 Quantitative Thinking (WSTC)
700099.2 Resource Sustainability (WSTC)

Students planning to progress to Bachelor of Science (Nutrition and Food Science) must choose

- 700095.2** Biodiversity (WSTC)
700125.2 Cell Biology (WSTC)
700122.2 Essential Chemistry 2 (WSTC)
700265.1 Food Science 1 (WSTC)

- 700155.2** Introductory Chemistry (WSTC)
700123.2 Quantitative Thinking (WSTC)
700124.2 Scientific Literacy (WSTC)

Choose one of

- 700033.4** Biometry (WSTC)
700096.3 Integrated Science (WSTC)
700098.2 Introduction to Physiology (WSTC)
700099.2 Resource Sustainability (WSTC)

Students planning to progress to Bachelor of Science (Environmental Science) must choose

- 700095.2** Biodiversity (WSTC)
700125.2 Cell Biology (WSTC)
700122.2 Essential Chemistry 2 (WSTC)
700155.2 Introductory Chemistry (WSTC)
700099.2 Resource Sustainability (WSTC)
700124.2 Scientific Literacy (WSTC)

Choose one of

- 700033.4** Biometry (WSTC)
700123.2 Quantitative Thinking (WSTC)

Choose one of

- 700096.3** Integrated Science (WSTC)
700098.2 Introduction to Physiology (WSTC)

Students planning to progress to Bachelor of Science (Zoology) must choose

- 700095.2** Biodiversity (WSTC)
700125.2 Cell Biology (WSTC)
700122.2 Essential Chemistry 2 (WSTC)
700155.2 Introductory Chemistry (WSTC)
700124.2 Scientific Literacy (WSTC)

Choose one of

- 700033.4** Biometry (WSTC)
700155.2 Introductory Chemistry (WSTC)

Choose two of

- 700096.3** Integrated Science (WSTC)
700098.2 Introduction to Physiology (WSTC)
700099.2 Resource Sustainability (WSTC)

Students will graduate with the Diploma after gaining a passing grade in all of the above units.

The College Admission Pathway - WSTC Science Extended - Medical Science - Recent School Leavers

A7260.1

Specialisation Structure

Students must be enrolled in 7120 - Diploma in Science Extended - Medical Science to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

700230.2	Academic Skills for Science (WSTC Prep)
700232.3	Focus on Biology (WSTC Prep)
700231.3	Fundamentals of Science (WSTC Prep)
700287.1	Interpreting Data In Science (WSTC Prep)

Term 2 of Study

Level Z units

700043.3	Chemistry (WSTC Prep)
700173.2	Tertiary Study Skills in Science (WSTC Prep)

Level 1 units

700095.2	Biodiversity (WSTC)
700124.2	Scientific Literacy (WSTC)

Term 3 of Study

700122.2	Essential Chemistry 2 (WSTC)
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** And two more units from the following five units (depending on which major students are progressing to):

700266.1	Concepts in Human Anatomy (WSTC)
700265.1	Food Science 1 (WSTC)
700096.3	Integrated Science (WSTC)
700098.2	Introduction to Physiology (WSTC)
700099.2	Resource Sustainability (WSTC)

(700265 Food Science 1 is to be studied in Spring at Hawkesbury campus)

** The recommended units to be chosen from the above five alternate units listed above for each University degree are detailed below: Students progressing to B Medical Science (with a major in Medicinal Chemistry or Anatomy and Physiology or Biomedical Science) must choose: 700098 Introduction to Physiology (WSTC) 700266 Concepts in Human Anatomy (WSTC)

Term 4 of Study

700125.2	Cell Biology (WSTC)
700155.2	Introductory Chemistry (WSTC)
700123.2	Quantitative Thinking (WSTC)

Students will graduate with the Diploma after gaining a passing grade in all of the above units.

The College Admission Pathway - WSTC Science Extended - Medical Science - Non-Credentialed

A7261.1

Specialisation Structure

Students must be enrolled in 7120 - Diploma in Science Extended - Medical Science to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

700230.2	Academic Skills for Science (WSTC Prep)
700231.3	Fundamentals of Science (WSTC Prep)
700232.3	Focus on Biology (WSTC Prep)
700287.1	Interpreting Data In Science (WSTC Prep)

Term 2 of Study

Level Z units

700043.3	Chemistry (WSTC Prep)
700173.2	Tertiary Study Skills in Science (WSTC Prep)

Level 1 units

700095.2	Biodiversity (WSTC)
700124.2	Scientific Literacy (WSTC)

Term 3 of Study

700122.2	Essential Chemistry 2 (WSTC)
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** And two more units from the following five units (depending on which major students are progressing to):

700266.1	Concepts in Human Anatomy (WSTC)
700265.1	Food Science 1 (WSTC)
700096.3	Integrated Science (WSTC)
700098.2	Introduction to Physiology (WSTC)
700099.2	Resource Sustainability (WSTC)

(700265 Food Science 1 is to be studied in Spring at Hawkesbury campus)

** The recommended units to be chosen from the above five alternate units listed above for each University degree are detailed below: Students progressing to B Medical Science (with a major in Medicinal Chemistry or Anatomy and Physiology or Biomedical Science) must choose: 700098 Introduction to Physiology (WSTC) 700266 Concepts in Human Anatomy (WSTC)

Term 4 of Study

700125.2	Cell Biology (WSTC)
700155.2	Introductory Chemistry (WSTC)
700123.2	Quantitative Thinking (WSTC)

Students will graduate with the Diploma after gaining a passing grade in all of the above units.

The College Admission Pathway - WSTC Science Extended - Medical Science - International

A7262.1

Specialisation Structure

Students must be enrolled in 7120 - Diploma in Science Extended - Medical Science to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

700230.2	Academic Skills for Science (WSTC Prep)
700270.1	English for International Students 1 (WSTC Prep)
700231.3	Fundamentals of Science (WSTC Prep)
700232.3	Focus on Biology (WSTC Prep)
700287.1	Interpreting Data In Science (WSTC Prep)

Term 2 of Study

Level Z units

700043.3	Chemistry (WSTC Prep)
700173.2	Tertiary Study Skills in Science (WSTC Prep)

Level 1 units

700124.2	Scientific Literacy (WSTC)
700095.2	Biodiversity (WSTC)

Bachelor of Medical Science (Forensic Mortuary Practice) must choose 700035 - Physics 1 (WSTC)

Term 3 of Study

700122.2	Essential Chemistry 2 (WSTC)
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** And two more units from the following five units (depending on which major students are progressing to):

700266.1	Concepts in Human Anatomy (WSTC)
700265.1	Food Science 1 (WSTC)
700096.3	Integrated Science (WSTC)
700098.2	Introduction to Physiology (WSTC)
700099.2	Resource Sustainability (WSTC)

(700265 Food Science 1 is to be studied in Spring at Hawkesbury campus)

** The recommended units to be chosen from the above five alternate units listed above for each University degree are detailed below: Students progressing to B Medical Science (with a major in Medicinal Chemistry or Anatomy and Physiology or Biomedical Science) must choose: 700098 Introduction to Physiology (WSTC) 700266 Concepts in Human Anatomy (WSTC)

Term 4 of Study

700125.2	Cell Biology (WSTC)
700155.2	Introductory Chemistry (WSTC)
700123.2	Quantitative Thinking (WSTC)

Students will graduate with the Diploma after gaining a passing grade in all of the above units.

Key Program - General Program

KP3027.1

Specialisation Structure

Students completing the Bachelor of Science (Advanced Science) General will complete the following course structure.

Qualifying for this award requires successful completion of 240 credit points within the following rules.

Level 1

Six Level 1 science core units must be completed by including the following

- at least one mathematics or statistics unit
- one academic skills unit
- at least four other science foundation units from the unit set structure below, which must come from a further two science disciplines out of the following: Biology, Chemistry, Computer Science or Physics

Levels 2 and 3

- at least thirteen more science units must be selected from the unit set structure below; three of these must be Advanced Science Project units
- at least one Major specialisation must be completed
- at least 60 credit points must be taken at Level 3, of which at least 40 credit points must be for science units taken from the unit set structure below
- 300924 Science Research Project must be completed as the capstone unit

Students must complete at least one of the following majors

- Hawkesbury: Marine Biology, Biochemistry and Molecular Biology, Climate Change, Conservation Biology, Environmental Consulting, Forensic Science, Microbiology, General Biology, Nutrition and Physiology, Zoology. Please note: the Mathematics major cannot be completed on Hawkesbury campus.
- Parramatta: Biochemistry and Molecular Biology, Chemistry, General Biology, Mathematics
- Campbelltown: Biochemistry and Molecular Biology, Chemistry, General Biology, Mathematics

Hawkesbury Campus**Year 1****Autumn session**

Non-mathematics majors: choose at least one appropriate mathematics or statistics unit in your first year.

Students cannot do a mathematics major on the Hawkesbury campus.

300811.1 Scientific Literacy

Choose three of

300802.2 Biodiversity
300800.2 Essential Chemistry 1
300828.1 Physics 1
300831.3 Quantitative Thinking

Or

300808.2 Introductory Chemistry

Note: Only one chemistry unit may be selected

External offering only

300830.2 Analysis of Change
200263.5 Biometry

Spring session

Choose at least two of

300830.2 Analysis of Change
200263.5 Biometry
300816.1 Cell Biology
300803.1 Essential Chemistry 2
300818.1 Introduction to Physiology
300831.3 Quantitative Thinking

And two electives

Year 2**Autumn session**

300937.1 Advanced Science Project A

Choose at least three of

300837.1 Climate Change Science
300843.1 Forensic and Environmental Analysis
300936.1 Functional Proteins and Genes
300845.1 Genetics
300931.1 Integrated Science
300833.1 Microbiology 1
300865.1 Plant Physiology
300980.1 Principles of Evolution
300876.1 Organic Chemistry

Spring session

300938.1 Advanced Science Project B

Choose at least three of

300836.1 Botany
300838.1 Comparative Physiology
300839.1 Ecology

300959.1 Mangamai'bangawarra: Indigenous Science
300848.1 Metabolism
300896.1 Microbiology 2
300817.1 Molecular Biology
300876.1 Organic Chemistry
300979.1 Principles of Zoology

Year 3**Autumn session**

300910.1 Advanced Science Project C

Choose at least two of

300850.1 Advanced Cell Biology
300857.1 Environmental Geochemistry
300820.1 Genes, Genomics and Human Health
300919.1 Occupational Health and Safety
300921.1 Plant Health and Biosecurity

Please note unit 300857 replaced by 301212 Science of the Anthropocene from 2019.

300866.1 Analytical Microbiology
300851.1 Advanced Physiology
300856.1 Ecosystem Carbon Accounting
300978.1 Marine and Aquatic Ecology
301212.1 Science of the Anthropocene

And one elective

Spring session

300924.1 Science Research Project

Choose at least two of

300905.1 Advanced Immunology
300909.1 Biological Adaptation to Climate Change
300855.1 Conservation Biology
300918.3 Invertebrate Biology
300883.1 Laboratory Quality Management
300826.1 Medical Microbiology
300927.2 Molecular Medicine
300861.1 Vertebrate Biodiversity

And one elective

Parramatta Campus**Year 1****Autumn session**

Non-mathematics majors: choose at least one appropriate mathematics or statistics unit in your first year

300811.1 Scientific Literacy

Choose three of

300830.2 Analysis of Change
300802.2 Biodiversity
200025.2 Discrete Mathematics
300800.2 Essential Chemistry 1
300672.2 Mathematics 1A
300828.1 Physics 1
300580.3 Programming Fundamentals
300831.3 Quantitative Thinking

Or

300808.2 Introductory Chemistry

Note: Only one chemistry unit may be selected

External offering only**200263.5** Biometry**Spring session**

Choose at least two of

200263.5 Biometry
300816.1 Cell Biology
301031.2 Computer Algebra
300803.1 Essential Chemistry 2
300818.1 Introduction to Physiology
300672.2 Mathematics 1A
300673.2 Mathematics 1B
300829.1 Physics 2
300580.3 Programming Fundamentals

External offering only

300830.2 Analysis of Change
300831.3 Quantitative Thinking

And two electives

Year 2**Autumn session****300937.1** Advanced Science Project A

Choose at least three of

200028.3 Advanced Calculus
300832.1 Analytical Chemistry
300936.1 Functional Proteins and Genes
300845.1 Genetics
300931.1 Integrated Science
301033.1 Introduction to Data Science
200027.3 Linear Algebra
300833.1 Microbiology 1
300876.1 Organic Chemistry
300865.1 Plant Physiology

Spring session**300938.1** Advanced Science Project B

Choose at least three of

300838.1 Comparative Physiology
200030.4 Differential Equations
300839.1 Ecology
300847.2 Immunology
300899.1 Inorganic Chemistry
301032.1 Making Sense of Data
300848.1 Metabolism
300896.1 Microbiology 2
300817.1 Molecular Biology
300849.2 Physical Chemistry

Year 3**Autumn session****300910.1** Advanced Science Project C

Choose at least two of

200193.2 Abstract Algebra
300850.1 Advanced Cell Biology
300907.1 Advanced Inorganic Chemistry
300851.1 Advanced Physiology
300926.1 Advanced Physical Chemistry
200023.3 Analysis
300857.1 Environmental Geochemistry
300820.1 Genes, Genomics and Human Health
301034.1 Predictive Modelling

And one elective

Spring session

Choose at least one Capstone unit

200045.3 Quantitative Project
300924.1 Science Research Project

Choose at least two of

300925.1 Advanced Analytical Chemistry
300905.1 Advanced Immunology
300906.1 Advanced Organic Chemistry
300855.1 Conservation Biology
301035.1 Environmental Informatics
200022.3 Mathematical Modelling
300826.1 Medical Microbiology

And one elective

Campbelltown Campus**Year 1****Autumn session**

Non-mathematics majors: choose at least one mathematics or statistics unit in your first year

300811.1 Scientific Literacy

Choose three of

300830.2 Analysis of Change
300802.2 Biodiversity
200263.5 Biometry
200025.2 Discrete Mathematics
300800.2 Essential Chemistry 1
300672.2 Mathematics 1A
300828.1 Physics 1
300580.3 Programming Fundamentals
300831.3 Quantitative Thinking

Or

300808.2 Introductory Chemistry

Note: Only one chemistry unit may be selected

Spring session

Choose at least two of

300830.2 Analysis of Change
200263.5 Biometry
300816.1 Cell Biology
301031.2 Computer Algebra
300803.1 Essential Chemistry 2

300818.1	Introduction to Physiology
300672.2	Mathematics 1A
300673.2	Mathematics 1B
300829.1	Physics 2
300580.3	Programming Fundamentals
300831.3	Quantitative Thinking

And two electives

Year 2

Autumn session

300937.1	Advanced Science Project A
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Choose at least three of

200028.3	Advanced Calculus
300832.1	Analytical Chemistry
300930.1	Classical Physics and Advanced Technologies
300936.1	Functional Proteins and Genes
300845.1	Genetics
300931.1	Integrated Science
301033.1	Introduction to Data Science
200027.3	Linear Algebra
300833.1	Microbiology 1
300876.1	Organic Chemistry

Spring Session

300938.1	Advanced Science Project B
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Choose at least three of

300838.1	Comparative Physiology
200030.4	Differential Equations
300839.1	Ecology
300848.1	Metabolism
300847.2	Immunology
300896.1	Microbiology 2
300899.1	Inorganic Chemistry
301032.1	Making Sense of Data
300817.1	Molecular Biology
300849.2	Physical Chemistry

Year 3

Autumn session

300910.1	Advanced Science Project C
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Choose at least two of

200193.2	Abstract Algebra
300850.1	Advanced Cell Biology
300907.1	Advanced Inorganic Chemistry
300851.1	Advanced Physiology
200023.3	Analysis
300820.1	Genes, Genomics and Human Health
300912.1	Molecular Pharmacokinetics
301034.1	Predictive Modelling
300819.1	Topics in Physiology

And one elective

Spring session

Choose at least one Capstone unit

200045.3	Quantitative Project
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300924.1	Science Research Project
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Choose at least two of

300925.1	Advanced Analytical Chemistry
300905.1	Advanced Immunology
300906.1	Advanced Organic Chemistry
301035.1	Environmental Informatics
200022.3	Mathematical Modelling
300826.1	Medical Microbiology
300927.2	Molecular Medicine
300923.1	Quantum Physics

And one elective

Key Program - Biological Science

KT3128.1

The biological sciences are diverse, fascinating, rapidly changing, and essential to our understanding of living systems at scales ranging from the molecular to the global. They play a vital role in our understanding of the environment, as well as animals, plants and micro-organisms, and are essential to a wide range of contemporary industries. A Bachelor of Science (Biological Science) offers a solid foundation in the basic sciences, including biology, microbiology, biochemistry and environmental science. You will be equipped to enter government, industry or research-based employment in this area (e.g. biotechnology companies, pathology, quality assurance, university and hospital laboratories, scientific sales and government agencies).

Specialisation Structure

Students completing the Bachelor of Science (Advanced Science) (Biological Science) will complete the following course structure.

Note: At least 60 credit points must be at Level 3 or above

Year 1

Autumn session

300802.2	Biodiversity
300811.1	Scientific Literacy

Choose one of

300800.2	Essential Chemistry 1
300808.2	Introductory Chemistry

Choose one of

300830.2	Analysis of Change
200263.5	Biometry
300672.2	Mathematics 1A
300831.3	Quantitative Thinking

Spring session

300816.1	Cell Biology
300803.1	Essential Chemistry 2
300818.1	Introduction to Physiology

And one elective

Year 2**Autumn session**

- 300937.1 Advanced Science Project A
 300936.1 Functional Proteins and Genes
 300833.1 Microbiology 1

Choose one of

- 300845.1 Genetics

Hawkesbury campus only

- 300980.1 Principles of Evolution

Spring session

- 300938.1 Advanced Science Project B
 300817.1 Molecular Biology

Choose two more Level 2 science units from the list below

- 300832.1 Analytical Chemistry
 300838.1 Comparative Physiology
 300839.1 Ecology
 300847.2 Immunology
 301033.1 Introduction to Data Science
 301032.1 Making Sense of Data
 300959.1 Mangamai'bangawarra: Indigenous Science
 300848.1 Metabolism
 300896.1 Microbiology 2
 300876.1 Organic Chemistry

Hawkesbury only

- 300836.1 Botany
 300979.1 Principles of Zoology

Year 3**Autumn session**

- 300910.1 Advanced Science Project C

And one Level 3 elective unit

Hawkesbury Campus

Choose at least two of

- 300850.1 Advanced Cell Biology
 300851.1 Advanced Physiology
 300866.1 Analytical Microbiology
 300837.1 Climate Change Science
 300856.1 Ecosystem Carbon Accounting
 300820.1 Genes, Genomics and Human Health
 300978.1 Marine and Aquatic Ecology
 300919.1 Occupational Health and Safety
 300921.1 Plant Health and Biosecurity
 300865.1 Plant Physiology

Parramatta Campus

Choose at least two of

- 300850.1 Advanced Cell Biology
 300851.1 Advanced Physiology

- 300820.1 Genes, Genomics and Human Health
 300865.1 Plant Physiology

Campbelltown Campus

Choose at least two of

- 300850.1 Advanced Cell Biology
 300851.1 Advanced Physiology
 300820.1 Genes, Genomics and Human Health
 300819.1 Topics in Physiology

Spring session**Capstone unit**

- 300924.1 Science Research Project

And one Level 3 elective unit

Hawkesbury Campus

Choose at least two of

- 300905.1 Advanced Immunology
 300909.1 Biological Adaptation to Climate Change
 300855.1 Conservation Biology
 300918.3 Invertebrate Biology
 300883.1 Laboratory Quality Management
 300826.1 Medical Microbiology
 300927.2 Molecular Medicine
 300861.1 Vertebrate Biodiversity

Parramatta Campus

Choose at least two of

- 300905.1 Advanced Immunology
 300855.1 Conservation Biology
 300826.1 Medical Microbiology

Campbelltown Campus

Choose at least two of

- 300905.1 Advanced Immunology
 300826.1 Medical Microbiology
 300927.2 Molecular Medicine

Key Program - Chemistry**KT3129.1**

A Bachelor of Science (Chemistry) will prepare you to take part in a process of inquiry, by both contributing to it and by using scientific knowledge to solve current problems. The Chemistry program provides a strong background in the key topic areas of contemporary chemistry, including aspects of chemical theory in analytical, inorganic, organic and physical chemistry, with a strong emphasis on practical laboratory skills, and applications in contemporary research, industry and the environment. A research project is available to students in the final year of the degree

preparing you for a professional career in a wide range of chemistry based industries.

Specialisation Structure

Students completing the Bachelor of Science (Advanced Science) (Chemistry) will complete the following course structure.

Year 1

Autumn session

300800.2	Essential Chemistry 1
300811.1	Scientific Literacy
300828.1	Physics 1

Choose one of

300830.2	Analysis of Change
300802.2	Biodiversity
200263.5	Biometry
200025.2	Discrete Mathematics
300580.3	Programming Fundamentals
300831.3	Quantitative Thinking

Spring session

300803.1	Essential Chemistry 2
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Choose one of

300830.2	Analysis of Change
300672.2	Mathematics 1A

Choose one of

200263.5	Biometry
300816.1	Cell Biology
300818.1	Introduction to Physiology
300673.2	Mathematics 1B
300829.1	Physics 2
300580.3	Programming Fundamentals

And one elective

Year 2

Autumn session

300937.1	Advanced Science Project A
300876.1	Organic Chemistry
300832.1	Analytical Chemistry

Choose at least one of

200028.3	Advanced Calculus
300936.1	Functional Proteins and Genes
300845.1	Genetics
300931.1	Integrated Science
200027.3	Linear Algebra
300833.1	Microbiology 1
300865.1	Plant Physiology

Spring session

300938.1	Advanced Science Project B
300899.1	Inorganic Chemistry
300849.2	Physical Chemistry

Choose at least one of

300838.1	Comparative Physiology
200030.4	Differential Equations
300839.1	Ecology
300847.2	Immunology
301033.1	Introduction to Data Science
301032.1	Making Sense of Data
300959.1	Mangamai'bangawarra: Indigenous Science
300848.1	Metabolism
300896.1	Microbiology 2
300817.1	Molecular Biology

Year 3

Autumn session

300910.1	Advanced Science Project C
300907.1	Advanced Inorganic Chemistry

Choose one of

300926.1	Advanced Physical Chemistry
300912.1	Molecular Pharmacokinetics

And one Level 3 elective

Spring session

Capstone Unit

300924.1	Science Research Project
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And

300925.1	Advanced Analytical Chemistry
300906.1	Advanced Organic Chemistry

And one elective

Key Program - Nutrition and Food Science

KT3132.1

Healthy eating is a vital part of good health. There is more to healthy eating than you realise. A Bachelor of Science (Nutrition and Food Science) will prepare you for the future by developing the skills and knowledge to solve future challenges in nutrition and health, food quality and security. The majors will allow further specialisation in your studies in Nutrition and Food Science and allow a wide range of careers in community nutrition and health promotion ensuring healthy diets and lifestyles for good health. The program has strong industry and community links, well-equipped facilities including food processing pilot plant and modern kitchen facilities. A major in Human Nutrition investigates healthy eating as a vital part of maintaining good health and health promotion. The major covers specialised studies in applied and community nutrition, metabolism and human physiology, preparing students for careers in community nutrition, health promotion and education, or work in a range of food and nutrition related businesses, including new product development of healthy foods. A major in Food Science explores the science behind food, its preparation, manufacture, storage and preservation. The major covers specialised topics in food processing, quality assurance, product development, postharvest, packaging, microbiological and chemical analysis of foods preparing you for a wide range of careers

in the food and beverage related industries, including food product development, quality assurance, food regulations, research and development, plus management of fresh food supply. A major in Food Technology Secondary Teaching brings together food science and nutrition with education studies to meet the graduate requirements for teaching food technology. The major includes specialised studies in food processing, food product development, nutrition, contemporary food issues, and growing crops for school garden projects. It will also address issues in the food marketplace relevant to the Australian food industry and prepare you to teach biology, chemistry or design and technology as additional first or second teaching areas, or design and technology depending on electives selected.

Specialisation Structure

Students completing the Bachelor of Science (Advanced Science) (Nutrition and Food Science) will complete the following course structure.

Note: At least 60 credit points must be at Level 3 or above. (Some students may need to take an elective as a Level 3 unit)

Year 1

Autumn session

300802.2 Biodiversity
300811.1 Scientific Literacy

Choose one of

300800.2 Essential Chemistry 1
300808.2 Introductory Chemistry

Choose one of

300830.2 Analysis of Change
200263.5 Biometry
300672.2 Mathematics 1A
300831.3 Quantitative Thinking

Spring session

300816.1 Cell Biology
300803.1 Essential Chemistry 2
300805.1 Food Science 1
300937.1 Advanced Science Project A

Students in the Human Nutrition Major (Advanced) complete the following as their fourth unit

300818.1 Introduction to Physiology

Note: 300937 - Advanced Science Project A is situated in Semester 2 for administrative purposes only. This unit will be completed at an appropriate time in Semester 3 or 5 after consultation with the Director of Academic Programs.

Year 2

Autumn session

300936.1 Functional Proteins and Genes
300833.1 Microbiology 1
300842.2 Food Science 2
300933.1 Nutrition and Health 1
300937.1 Advanced Science Project A

300937 - Advanced Project A: enrol in this unit as a fifth unit in Year 2 Autumn semester; attend Workshop in Autumn mid-semester break and complete literature review by end of July.

Spring session

300938.1 Advanced Science Project B
300879.1 Experimental Foods

Human Nutrition Major (Advanced)

300848.1 Metabolism
300934.1 Nutrition and Health 2

Food Science Major (Advanced)

300859.1 Food Safety
300869.1 Postharvest

Year 3

Autumn session

300910.1 Advanced Science Project C
300922.2 Quality Assurance and Food Analysis

Human Nutrition Major (Advanced)

300851.1 Advanced Physiology

Students in the Human Nutrition Major may wish to complete an optional extra unit in this semester: choose one of

300928.1 Consumer Issues in Nutrition
300819.1 Topics in Physiology

Food Science Major (Advanced)

300871.1 Culinary Science

Choose one of

300866.1 Analytical Microbiology
300843.1 Forensic and Environmental Analysis

Spring session

Capstone Unit

300924.1 Science Research Project
300915.1 Food Product Development

Human Nutrition Major (Advanced)

300908.1 Applied Nutrition
300917.1 Global Nutrition, Food and Community

Food Science Major (Advanced)

300904.1 Advanced Food Science and Technology
300883.1 Laboratory Quality Management

All students must satisfactorily complete the unit 300655 - Approved Industrial Experience (10 weeks), comprising a minimum of ten weeks Approved Industrial Experience.

300655.2 Approved Industrial Experience

Key Program - Zoology

KT3134.1

A Bachelor of Science (Zoology) recognises the increased demand for scientific knowledge of how to conserve, protect and care for animals, including native wildlife, and companion and production animals. It will enable you to develop an in-depth scientific understanding of how animals function and interact with their environment; from their ecology and evolution; to physiology and biochemistry of tissues and major organs systems, as well as the structure and function of biomolecules and cells. The key learning and research areas embodied in this degree are ecology, evolution, physiology, growth, reproduction, genetics, and conservation biology. On-campus animal facilities include those for reptiles, small marsupials, small rodents, horses, sheep and cattle, as well as over 1,000ha of native, rural and aquatic habitats.

Specialisation Structure

Students completing the Bachelor of Science (Advanced Science) (Zoology) will complete the following course structure.

Note: At least 60 credit points must be at Level 3 or above.

Year 1

Autumn session

300802.2	Biodiversity
300811.1	Scientific Literacy
300813.1	Wildlife Studies

Choose one of

300800.2	Essential Chemistry 1
300808.2	Introductory Chemistry

Spring session

300816.1	Cell Biology
300803.1	Essential Chemistry 2
300801.1	Animal Science

Choose one of

300830.2	Analysis of Change
200263.5	Biometry
300672.2	Mathematics 1A
300831.3	Quantitative Thinking

Year 2

Autumn session

300937.1	Advanced Science Project A
300834.1	Animal Health and Welfare
300936.1	Functional Proteins and Genes
300980.1	Principles of Evolution

Spring session

300938.1	Advanced Science Project B
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300838.1	Comparative Physiology
300839.1	Ecology
300979.1	Principles of Zoology

Year 3

Autumn session

300910.1	Advanced Science Project C
300878.1	Animal Behaviour
300978.1	Marine and Aquatic Ecology

And one elective

Spring session

300924.1	Science Research Project
300855.1	Conservation Biology
300909.1	Biological Adaptation to Climate Change

Choose one of

300918.3	Invertebrate Biology
300861.1	Vertebrate Biodiversity

Key Program - Environmental Science

KT3148.1

Specialisation Structure

Students completing the Bachelor of Science (Advanced Science) (Environmental Science) will complete the following course structure.

Year 1

Autumn session

300802.2	Biodiversity
300811.1	Scientific Literacy
300824.1	Management of Aquatic Environments

Choose one of

300800.2	Essential Chemistry 1
300808.2	Introductory Chemistry

Spring session

300816.1	Cell Biology
300803.1	Essential Chemistry 2
300810.1	Resource Sustainability

Choose one of

101646.2	Analysis of Spatial Data
300812.1	Understanding Landscape

Year 2

Autumn session

300937.1	Advanced Science Project A
300837.1	Climate Change Science

Choose one of

300843.1	Forensic and Environmental Analysis
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300833.1 Microbiology 1

Choose one of

- 300830.2** Analysis of Change
- 200263.5** Biometry
- 300672.2** Mathematics 1A
- 300831.3** Quantitative Thinking

Spring session

- 300938.1** Advanced Science Project B
- 300839.1** Ecology
- 300841.1** Environmental Regulation and Policy

Choose one of

- 300836.1** Botany
- 300861.1** Vertebrate Biodiversity

Year 3**Autumn session**

- 300910.1** Advanced Science Project C
- 300978.1** Marine and Aquatic Ecology
- 300857.1** Environmental Geochemistry

Please note unit 300857 replaced by 301212 Science of the Anthropocene from 2019.

- 301212.1** Science of the Anthropocene
- 300856.1** Ecosystem Carbon Accounting

Spring session

- 300924.1** Science Research Project
- 300855.1** Conservation Biology
- 300909.1** Biological Adaptation to Climate Change

Choose one of

- 300918.3** Invertebrate Biology
- 300861.1** Vertebrate Biodiversity

Key Program - Forensic Science**KT3149.1**

This is a three year program that produces scientists who have a good background in the biological and chemical sciences, coupled with specialised expertise in forensic science, including methods of forensic analysis, crime scene investigation, forensic photography, forensic investigation, crime and criminal justice and complex case. Students may opt to further specialise in forensic biology, chemistry or microbiology by selecting additional electives or studies in a related or unrelated discipline. Career opportunities include forensic scientists, crime scene investigators, private investigators and consultants, police officers, drug analysts, researchers and academics, and specialised forensic science practitioners. The main employers of forensic scientists are State and Federal police services, State and Commonwealth Government Health Departments and analytical chemical laboratories. Graduates will be versatile with a wide skills base with (depending on their choice of electives) potential for

employment in analytical chemistry and microbiology, quality control and assurance, biochemistry and molecular biology, scientific research, education and the chemical industry.

Specialisation Structure

Students completing the Bachelor of Science (Advanced Science) (Forensic Science) will complete the following course structure.

Year 1**Autumn session**

- 300802.2** Biodiversity
- 300811.1** Scientific Literacy
- 300806.1** Forensic Science

Choose one of

- 300800.2** Essential Chemistry 1
- 300808.2** Introductory Chemistry

Spring session

- 300816.1** Cell Biology
- 300803.1** Essential Chemistry 2
- 300874.2** Digital Forensic Photography
- 200263.5** Biometry

Year 2**Autumn session**

- 300937.1** Advanced Science Project A
- 300843.1** Forensic and Environmental Analysis
- 300845.1** Genetics
- 300825.2** Introduction to Anatomy

From 2017: 300825 Introduction to Anatomy replaced with the following unit:

- 301126.1** Concepts in Human Anatomy

Spring session

- 300938.1** Advanced Science Project B
- 300873.2** Crime Scene Investigation
- 300817.1** Molecular Biology
- 401171.1** Imaging Science

Year 3**Autumn session**

- 300910.1** Advanced Science Project C
- 300981.1** Environmental Forensic Investigations
- 300868.1** Forensic Chemistry
- 301120.2** Forensic Anthropology

Spring session

- 300924.1** Science Research Project
- 300911.1** Complex Forensic Studies
- 401170.2** Forensic Biology
- 300883.1** Laboratory Quality Management

Major - Crime Scene Investigation**M4012.1** Crime Scene Investigation**Key Program - Mathematical Sciences****KT3150.1**

A Bachelor of Science (Mathematical Science) provides you with a strong background in key analytical techniques that have contemporary applications such as the treatment and interpretation of data and the modelling of real-world problems such as global warming. You will develop skills that allow you to model and solve real world problems using mathematical techniques and have the opportunity to specialise in mathematics, statistics or a combination of both. This will provide you with a wide range of career options in commercial and government institutions, which require highly-skilled problem-solvers. There are also a range of majors (e.g. biology, chemistry) and sub-majors offered in Science that can add diversity and/or focus to your degree. There are also a range of sub-majors from other disciplines such as the arts, business, humanities and social sciences to choose from, although these may require cross campus study and are subject to availability and timetabling.

Specialisation Structure

Students completing the Bachelor of Science (Advanced Science) (Mathematical Sciences) will complete the following course structure.

Year 1**Autumn session**

300672.2 Mathematics 1A
300811.1 Scientific Literacy
200025.2 Discrete Mathematics

Choose one of

300802.2 Biodiversity
300800.2 Essential Chemistry 1
300808.2 Introductory Chemistry
300828.1 Physics 1

Spring session

301031.2 Computer Algebra
300673.2 Mathematics 1B
200263.5 Biometry

And one elective

Year 2**Autumn session**

300937.1 Advanced Science Project A
200027.3 Linear Algebra
200028.3 Advanced Calculus
301033.1 Introduction to Data Science

Spring session

300938.1 Advanced Science Project B
200030.4 Differential Equations
301032.1 Making Sense of Data

Choose one of

300816.1 Cell Biology
300803.1 Essential Chemistry 2
300829.1 Physics 2

Year 3**Autumn session**

300910.1 Advanced Science Project C
200193.2 Abstract Algebra
301034.1 Predictive Modelling
200023.3 Analysis

Spring session

200045.3 Quantitative Project
301035.1 Environmental Informatics
200022.3 Mathematical Modelling

And one elective

Key Program - Health Promotion**KT4000.1**

Health Promotion extends beyond raising awareness of healthcare issues to developing and implementing strategies for communities, individuals and policy-makers to improve their health and wellbeing. Health Promotion graduates help communities and individuals to change their behaviour, working with employers, not-for-profit foundations, disability councils, the public health sector, community health centres, youth centres, schools and local government. Health promotion projects are as diverse as injury prevention, skin cancer prevention, HIV/AIDS awareness and community development. The program combines studies of health politics and planning, health promotion practice, injury prevention, public health with a comprehensive foundation of the health sciences to develop the professional competencies important for ethical and safe practice and high quality care and the skills to work in multidisciplinary teams. Evidence-based practice is one of the most important trends in healthcare today and a strong feature of the program. There is room for electives in particular areas of interest opening up a richer experience of university life or a double major in two of the areas of Health Promotion, Health Services Management or Therapeutic Recreation.

Location

Campus	Mode
Campbelltown Campus	Internal
Sydney City Campus	Internal

Specialisation Structure

Qualification for this Key Program requires the successful completion of 240 credit points including the units listed in the recommended sequence below.

Full-time - Start Year Intake

Year 1

Autumn session

400870.2	Population Health and Society
300361.3	Introduction to Human Biology
400783.2	Professional Pathways in Health Science
400871.2	Professional Health Competencies

Spring session

101614.3	Psychology and Health
400863.2	Foundations of Research and Evidence-Based Practice
400732.2	Communication in Health

And one elective

Recommended elective

400277.4	Health Services Management
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Year 2

Autumn session

400867.2	Approaches to Health Promotion
400864.3	Research Methods (Quantitative and Qualitative)
400866.3	Culture, Diversity and Health

And one elective

Recommended elective

400244.3	Introduction to Leisure and Recreation Theory
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Spring session

401195.1	Health Politics, Policy and Planning
400286.4	Injury Prevention
400285.2	Public Health

And one elective

Year 3

Autumn session

400275.2	Health Planning Project
400784.4	Health Promotion Practice 1

And two electives

Spring session

400785.2	Health Promotion Practice 2
400249.2	Ethical and Legal Issues in Health Care
400786.4	Professional Transition Project

And one elective

Full-time - Mid Year Intake

Year 1

Spring session

101614.3	Psychology and Health
400863.2	Foundations of Research and Evidence-Based Practice
400732.2	Communication in Health

And one elective

Recommended elective

400277.4	Health Services Management
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Year 2

Autumn session

400783.2	Professional Pathways in Health Science
400871.2	Professional Health Competencies
400870.2	Population Health and Society
400867.2	Approaches to Health Promotion

Spring session

401195.1	Health Politics, Policy and Planning
400286.4	Injury Prevention
400285.2	Public Health

And one elective

Year 3

Autumn session

300361.3	Introduction to Human Biology
400784.4	Health Promotion Practice 1
400866.3	Culture, Diversity and Health

And one elective

Recommended elective

400244.3	Introduction to Leisure and Recreation Theory
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Spring session

400785.2	Health Promotion Practice 2
400249.2	Ethical and Legal Issues in Health Care
400786.4	Professional Transition Project

And one elective

Year 4

Autumn session

400864.3	Research Methods (Quantitative and Qualitative)
400275.2	Health Planning Project

And two electives

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Key Program - Health Services Management

KT4001.1

Health Services Management plays a vital role in society, in ensuring that public investment in health is well spent, and that private healthcare businesses deliver effective, efficient services. It puts management studies in the distinctive context of the health sector to integrate clinical understanding, management skills and knowledge of the health care system and policy development. Health Services Management graduates are in demand to work in quality improvement, financial management and occupational health and safety. Two areas of growth are in mental health services and the aged care sector.

Graduates will be skilled in managing and responding to rapid changes within the health care system and in areas that deal with policy initiative, development and evaluation. The program combines studies of managing people, resources and finances with a comprehensive foundation of the health sciences to develop the professional competencies important for ethical and safe practice and high quality care and the skills to work in multidisciplinary teams. Evidence-based practice is one of the most important trends in healthcare today and a strong feature of the program. There is room for electives in particular areas of interest opening up a richer experience of university life or a double major in two of the areas of Health Promotion, Health Services Management or Therapeutic Recreation.

Location

Campus	Mode
Campbelltown Campus	Internal
Sydney City Campus	Internal

Specialisation Structure

Professional Accreditation

The Bachelor of Health Science (Health Service Management) has Professional Accreditation with the Australasian College of Health Service Management.

Qualification for this Key Program requires the successful completion of 240 credit points including the units listed in the recommended sequence below.

Full-time - Start Year Intake

Year 1

Autumn session

400870.2	Population Health and Society
300361.3	Introduction to Human Biology
400783.2	Professional Pathways in Health Science
400871.2	Professional Health Competencies

Spring session

101614.3	Psychology and Health
400277.4	Health Services Management
400863.2	Foundations of Research and Evidence-Based Practice
400732.2	Communication in Health

Year 2

Autumn session

400867.2	Approaches to Health Promotion
400864.3	Research Methods (Quantitative and Qualitative)
400866.3	Culture, Diversity and Health

And one elective

Recommended elective

400244.3	Introduction to Leisure and Recreation Theory
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Spring session

401195.1	Health Politics, Policy and Planning
400249.2	Ethical and Legal Issues in Health Care

And two electives

Year 3

Autumn session

400275.2	Health Planning Project
400787.3	Health Services Management Practice

And two electives

Spring session

400279.4	Health Services Financial Management
400788.4	Health Services Workforce Management
400786.4	Professional Transition Project

And one elective

Full-time - Mid Year Intake

Year 1

Spring session

101614.3	Psychology and Health
400277.4	Health Services Management
400863.2	Foundations of Research and Evidence-Based Practice
400732.2	Communication in Health

Year 2

Autumn session

400870.2	Population Health and Society
300361.3	Introduction to Human Biology
400783.2	Professional Pathways in Health Science
400871.2	Professional Health Competencies

Spring session

- 401195.1** Health Politics, Policy and Planning
400249.2 Ethical and Legal Issues in Health Care

And two electives

Year 3**Autumn session**

- 400867.2** Approaches to Health Promotion
400787.3 Health Services Management Practice
400866.3 Culture, Diversity and Health

And one elective

Recommended elective

- 400244.3** Introduction to Leisure and Recreation Theory

Spring session

- 400788.4** Health Services Workforce Management
400279.4 Health Services Financial Management
400786.4 Professional Transition Project

And one elective

Year 4**Autumn session**

- 400275.2** Health Planning Project
400864.3 Research Methods (Quantitative and Qualitative)

And two electives

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Key Program - Therapeutic Recreation**KT4002.1**

Therapeutic Recreation is the link between leisure and health improvement, using recreation as a way to improve quality of life. Therapeutic Recreation graduates work with patients to use leisure activities to improve health and life quality, for example in rehabilitation centres and psychiatric units, special schools, day care centres, aged care facilities, or in local government or community settings. The program combines theory and practice in learning, education programming, aged care, disability and mental health with a comprehensive foundation of the health sciences to develop the professional competencies important for ethical and safe practice and high quality care and the skills to work in multidisciplinary teams. Evidence-based practice is one of the most important trends in healthcare today and a

strong feature of the program. There is room for electives in particular areas of interest opening up a richer experience of university life or a double major in two of the areas of Health Promotion, Health Services Management or Therapeutic Recreation.

Location

Campus	Mode
Campbelltown Campus	Internal
Sydney City Campus	Internal

Specialisation Structure**Professional Accreditation**

Accreditation from the Diversional Therapy Association of Australia (for Therapeutic Recreation Key Program) has been granted.

Qualification for this Key Program requires the successful completion of 240 credit points including the units listed in the recommended sequence below.

Recommended Sequence**Full-time - Start Year Intake****Year 1****Autumn session**

- 400870.2** Population Health and Society
300361.3 Introduction to Human Biology
400783.2 Professional Pathways in Health Science
400871.2 Professional Health Competencies

Spring session

- 101614.3** Psychology and Health
400863.2 Foundations of Research and Evidence-Based Practice
400732.2 Communication in Health

And one elective

Recommended elective

- 400277.4** Health Services Management

Year 2**Autumn session**

- 400867.2** Approaches to Health Promotion
400244.3 Introduction to Leisure and Recreation Theory
400864.3 Research Methods (Quantitative and Qualitative)
400866.3 Culture, Diversity and Health

Spring session

- 400968.2** Professional Practice in Aged Care and Disability
400246.4 Workplace Learning 1 (Therapeutic Recreation)

And two electives

Year 3

Autumn session

- 400789.3** Leisure Education Programming and Mental Health
400252.3 Workplace Learning 2 (Community Placement)

And two electives

Spring session

- 400786.4** Professional Transition Project
400249.2 Ethical and Legal Issues in Health Care
400254.2 Therapeutic Recreation Professional Project

And one elective

Full-time - Mid Year Intake

Year 1

Spring session

- 101614.3** Psychology and Health
400863.2 Foundations of Research and Evidence-Based Practice
400732.2 Communication in Health

And one elective

Recommended elective

- 400277.4** Health Services Management

Year 2

Autumn session

- 400244.3** Introduction to Leisure and Recreation Theory
400783.2 Professional Pathways in Health Science
400871.2 Professional Health Competencies
400870.2 Population Health and Society

Spring session

- 400968.2** Professional Practice in Aged Care and Disability
400246.4 Workplace Learning 1 (Therapeutic Recreation)

And two electives

Year 3

Autumn session

- 300361.3** Introduction to Human Biology
400867.2 Approaches to Health Promotion
400866.3 Culture, Diversity and Health
400252.3 Workplace Learning 2 (Community Placement)

Spring session

- 400786.4** Professional Transition Project
400249.2 Ethical and Legal Issues in Health Care

- 400254.2** Therapeutic Recreation Professional Project

And one elective

Year 4

Autumn session

- 400864.3** Research Methods (Quantitative and Qualitative)
400789.3 Leisure Education Programming and Mental Health

And two electives

Sub-major elective spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Key Program - Health Promotion

KT4003.1

Health Promotion extends beyond raising awareness of healthcare issues to developing and implementing strategies for communities, individuals and policy-makers to improve their health and wellbeing. Health Promotion graduates help communities and individuals to change their behaviour, working with employers, not-for-profit foundations, disability councils, the public health sector, community health centres, youth centres, schools and local government. Health promotion projects are as diverse as injury prevention, skin cancer prevention, HIV/AIDS awareness and community development. The program combines studies of health politics and planning, health promotion practice, injury prevention, public health with a comprehensive foundation of the health sciences to develop the professional competencies important for ethical and safe practice and high quality care and the skills to work in multidisciplinary teams. Evidence-based practice is one of the most important trends in healthcare today and a strong feature of the program. There is room for electives in particular areas of interest opening up a richer experience of university life or a double major in two of the areas of Health Promotion, Health Services Management or Therapeutic Recreation.

Location

Campus	Mode
Campbelltown Campus	Internal
Online	Multi Modal
Penrith Campus	Internal

Specialisation Structure

Year 2

Autumn session

- 400864.3** Research Methods (Quantitative and Qualitative)
400866.3 Culture, Diversity and Health

And two electives

Recommended elective

- 400244.3** Introduction to Leisure and Recreation Theory

Spring session

- 401195.1** Health Politics, Policy and Planning
400286.4 Injury Prevention
400285.2 Public Health

And one elective

Recommended elective

- 400277.4** Health Services Management

Year 3

Autumn session

- 400275.2** Health Planning Project
400784.4 Health Promotion Practice 1

And two electives

Spring session

- 400785.2** Health Promotion Practice 2
400249.2 Ethical and Legal Issues in Health Care
400786.4 Professional Transition Project

And one elective

Key Program - Public Health

KT4004.1

Public health professionals are required to assess and respond to emerging public health issues. Public Health graduates work in a variety of settings, including health departments, community organisations, the pharmaceutical industry, corporate wellness programs, centres for disease control, environmental protection agencies and research. Public health projects cover a wide range of areas, such as health and health care programs, disease prevention and control, data analysis and clinical trials, environmental and occupational health, community outreach and fund-raising. The program combines studies of the determinants of health, which include social and environmental factors, in addition to physical risk factors, health promotion, health politics and planning, epidemiology and health promotion practice. There is a comprehensive foundation of the health sciences to develop the professional competencies important for ethical and multidisciplinary practice. Evidence-based practice is one of the most important

requirements in healthcare today and a strong feature of the program. There is room for electives in areas of individual interest, allowing a richer experience of university life. The Public Health key program is a fully online course. All core units are offered online. Students are offered a selection of Western Sydney electives that are online. Students enrolled in the Public Health key program may choose to enrol into the same units offered in on-campus mode if they wish. Students who enrol into the Public Health key program and a major in one of the other 3 specialisations of 4656 will be required to attend on-campus classes for the second area of study.

Location

Campus	Mode
Campbelltown Campus	Internal
Online	Multi Modal
Sydney City Campus	Internal

Specialisation Structure

Qualification for this Key Program requires the successful completion of 240 credit points including the units listed in the recommended sequence below.

Recommended Sequence

Full-time - Start Year Intake

Year 1

Autumn session

- 400870.2** Population Health and Society
300361.3 Introduction to Human Biology
400783.2 Professional Pathways in Health Science
400871.2 Professional Health Competencies

Spring session

- 101614.3** Psychology and Health
400863.2 Foundations of Research and Evidence-Based Practice
400732.2 Communication in Health

And one elective

Recommended elective

- 400277.4** Health Services Management

Year 2

Autumn session

- 400867.2** Approaches to Health Promotion
300872.1 Epidemiology
400864.3 Research Methods (Quantitative and Qualitative)
400866.3 Culture, Diversity and Health

Spring session

- 401195.1** Health Politics, Policy and Planning
400285.2 Public Health

And two electives

Year 3

Autumn session

- 400275.2** Health Planning Project
401194.2 Contemporary Issues in Public Health

And two electives

Spring session

- 400786.4** Professional Transition Project
400249.2 Ethical and Legal Issues in Health Care
401193.1 Public Health Practice

And one elective

Full-time - Mid Year Intake

Year 1

Spring session

- 101614.3** Psychology and Health
400863.2 Foundations of Research and Evidence-Based Practice
400732.2 Communication in Health

And one elective

Recommended elective

- 400277.4** Health Services Management

Year 2

Autumn session

- 300361.3** Introduction to Human Biology
400870.2 Population Health and Society
400783.2 Professional Pathways in Health Science
400871.2 Professional Health Competencies

Spring session

- 401195.1** Health Politics, Policy and Planning
400285.2 Public Health

And two electives

Year 3

Autumn session

- 400867.2** Approaches to Health Promotion
300872.1 Epidemiology
400864.3 Research Methods (Quantitative and Qualitative)
400866.3 Culture, Diversity and Health

Spring session

- 400786.4** Professional Transition Project
400249.2 Ethical and Legal Issues in Health Care
401193.1 Public Health Practice

And one elective

Year 4

Autumn session

- 400275.2** Health Planning Project
401194.2 Contemporary Issues in Public Health

And two electives

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Key Program - Health Services Management

KT4005.1

Health Services Management plays a vital role in society, in ensuring that public investment in health is well spent, and that private healthcare businesses deliver effective, efficient services. It puts management studies in the distinctive context of the health sector to integrate clinical understanding, management skills and knowledge of the health care system and policy development. Health Services Management graduates are in demand to work in quality improvement, financial management and occupational health and safety. Two areas of growth are in mental health services and the aged care sector. Graduates will be skilled in managing and responding to rapid changes within the health care system and in areas that deal with policy initiative, development and evaluation. The program combines studies of managing people, resources and finances with a comprehensive foundation of the health sciences to develop the professional competencies important for ethical and safe practice and high quality care and the skills to work in multidisciplinary teams. Evidence-based practice is one of the most important trends in healthcare today and a strong feature of the program. There is room for electives in particular areas of interest opening up a richer experience of university life or a double major in two of the areas of Health Promotion, Health Services Management or Therapeutic Recreation.

Location

Campus	Mode
Campbelltown Campus	Internal
Online	Multi Modal
Penrith Campus	Internal

Specialisation Structure

Year 2

Autumn session

- 400864.3** Research Methods (Quantitative and Qualitative)

400866.3 Culture, Diversity and Health

And two electives
Recommended elective

400244.3 Introduction to Leisure and Recreation Theory**Spring session****401195.1** Health Politics, Policy and Planning
400277.4 Health Services Management

And two electives

Year 3**Autumn session****400275.2** Health Planning Project
400787.3 Health Services Management Practice

And two electives

Spring session**400279.4** Health Services Financial Management
400788.4 Health Services Workforce Management
400786.4 Professional Transition Project
400249.2 Ethical and Legal Issues in Health Care**Key Program - Therapeutic Recreation****KT4006.1**

Therapeutic Recreation is the link between leisure and health improvement, using recreation as a way to improve quality of life. Therapeutic Recreation graduates work with patients to use leisure activities to improve health and life quality, for example in rehabilitation centres and psychiatric units, special schools, day care centres, aged care facilities, or in local government or community settings. The program combines theory and practice in learning, education programming, aged care, disability and mental health with a comprehensive foundation of the health sciences to develop the professional competencies important for ethical and safe practice and high quality care and the skills to work in multidisciplinary teams. Evidence-based practice is one of the most important trends in healthcare today and a strong feature of the program. There is room for electives in particular areas of interest opening up a richer experience of university life or a double major in two of the areas of Health Promotion, Health Services Management or Therapeutic Recreation.

Location

Campus	Mode
Campbelltown Campus	Internal
Online	Multi Modal
Penrith Campus	Internal

Specialisation Structure**Year 2****Autumn session****400864.3** Research Methods (Quantitative and Qualitative)
400866.3 Culture, Diversity and Health
400244.3 Introduction to Leisure and Recreation Theory

And one elective

Spring session**400968.2** Professional Practice in Aged Care and Disability
400246.4 Workplace Learning 1 (Therapeutic Recreation)

And two electives
Recommended elective

400277.4 Health Services Management**Year 3****Autumn session****400789.3** Leisure Education Programming and Mental Health
400252.3 Workplace Learning 2 (Community Placement)

And two electives

Spring session**400254.2** Therapeutic Recreation Professional Project
400249.2 Ethical and Legal Issues in Health Care
400786.4 Professional Transition Project

And one elective

Key Program - Public Health**KT4007.1**

Public health professionals are required to assess and respond to emerging public health issues. Public Health graduates work in a variety of settings, including health departments, community organisations, the pharmaceutical industry, corporate wellness programs, centres for disease control, environmental protection agencies and research. Public health projects cover a wide range of areas, such as health and health care programs, disease prevention and control, data analysis and clinical trials, environmental and occupational health, community outreach and fund-raising. The program combines studies of the determinants of health, which include social and environmental factors, in addition to physical risk factors, health promotion, health politics and planning, epidemiology and health promotion practice. There is a comprehensive foundation of the health sciences to develop the professional competencies important for ethical and multidisciplinary practice. Evidence-based practice is one of the most important

requirements in healthcare today and a strong feature of the program. There is room for electives in areas of individual interest, allowing a richer experience of university life. The Public Health key program is a fully online course. All core units are offered online. Students are offered a selection of Western Sydney electives that are online. Students enrolled in the Public Health key program may choose to enrol into the same units offered in on-campus mode if they wish. Students who enrol into the Public Health key program and a major in one of the other 3 specialisations of 4656 will be required to attend on-campus classes for the second area of study.

Location

Campus	Mode
Campbelltown Campus	Internal
Online	Multi Modal

Specialisation Structure

Year 2

Autumn session

400864.3	Research Methods (Quantitative and Qualitative)
400866.3	Culture, Diversity and Health
300872.1	Epidemiology

And one elective

Spring session

401195.1	Health Politics, Policy and Planning
400285.2	Public Health

And two electives

Recommended elective

400277.4	Health Services Management
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Year 3

Autumn session

400275.2	Health Planning Project
401194.2	Contemporary Issues in Public Health

And two electives

Spring session

401193.1	Public Health Practice
400249.2	Ethical and Legal Issues in Health Care
400786.4	Professional Transition Project

And one elective

Major - Aquatic Biology

M3046.1

Aquatic and marine environments play vital roles in providing food, water, recreation and other ecosystem services to human society, as well as providing habitat for

important species that make up global biodiversity. This major will equip students with the background knowledge and training to work in aquatic and marine environments, to learn skills in inquiry and problem solving, so that they can contribute beneficially to management and/or conservation of waterways and oceans and the biodiversity within them.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete the following eight units

Level 1

300802.2	Biodiversity
300824.1	Management of Aquatic Environments

Level 2

300838.1	Comparative Physiology
300839.1	Ecology
300877.1	Toxicology

Level 3

300929.1	Aquatic Ecology
300918.3	Invertebrate Biology
300870.1	Water in the Landscape

Major - Chemistry

M3047.1

This major will give students a solid grounding in chemistry as a scientific discipline; units can be selected to specialise in inorganic, organic, analytical or physical chemistry. Completion of the major will also qualify students as secondary school chemistry teachers.

Location

Campus	Mode
Campbelltown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must complete eight units as follows

Level 1

300800.2	Essential Chemistry 1
300803.1	Essential Chemistry 2

Level 2

Choose three of

300899.1	Inorganic Chemistry
300876.1	Organic Chemistry
300849.2	Physical Chemistry

*Students may only choose one of the following two units

300832.1	Analytical Chemistry
300843.1	Forensic and Environmental Analysis

Level 3

Choose one of the following capstone units

300883.1	Laboratory Quality Management
300924.1	Science Research Project

And choose two of

300925.1	Advanced Analytical Chemistry
300907.1	Advanced Inorganic Chemistry
300891.1	Advanced Medicinal Chemistry
300906.1	Advanced Organic Chemistry
300926.1	Advanced Physical Chemistry
300920.1	Pharmacological Chemistry

Major - Conservation Biology

M3049.1

Conservation biology has emerged as a field of study from a synthesis of the ecological, demographic, genetic and societal risks faced by small natural populations. This major equips students with skills in fundamental biology, in the ecology of populations and communities, in population genetics and in the legal conservation framework to enable them to work in this area.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete eight units as follows. Five units must be from the Level 1 and 2 pools, with no more than three units at Level 1. Students must also complete three units at Level 3.

Level 1

300802.2	Biodiversity
300816.1	Cell Biology
300824.1	Management of Aquatic Environments
300813.1	Wildlife Studies

Level 2

300836.1	Botany
300839.1	Ecology
300845.1	Genetics

Level 3

Students must complete

300855.1	Conservation Biology
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And choose two of

300929.1	Aquatic Ecology
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300918.3	Invertebrate Biology
300861.1	Vertebrate Biodiversity

Major - General Biology

M3052.1

The major in General Biology gives students a broad training in biology, with the opportunity to select a program that ranges across the scale from macro- to micro- to molecular level processes. Completion of the major meets the requirements for secondary school biology teaching (post-graduate study is required to qualify as a teacher).

Location

Campus	Mode
Campbelltown Campus	Internal
Hawkesbury Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must complete a maximum of three units from Level 1 and at least three units from Level 3.

Students must complete eight units as follows

Level 1

300802.2	Biodiversity
300816.1	Cell Biology

Choose six of the following units, including at least three at Level 3.

Level 1

300800.2	Essential Chemistry 1
300803.1	Essential Chemistry 2

Level 2

300836.1	Botany
300838.1	Comparative Physiology
300839.1	Ecology
300936.1	Functional Proteins and Genes
300845.1	Genetics
300847.2	Immunology
300848.1	Metabolism
300833.1	Microbiology 1
300896.1	Microbiology 2
300817.1	Molecular Biology
300865.1	Plant Physiology

Level 3

300850.1	Advanced Cell Biology
300905.1	Advanced Immunology
300851.1	Advanced Physiology
300866.1	Analytical Microbiology
300929.1	Aquatic Ecology
300855.1	Conservation Biology
300820.1	Genes, Genomics and Human Health
300918.3	Invertebrate Biology

300819.1	Topics in Physiology
300883.1	Laboratory Quality Management
300826.1	Medical Microbiology
300927.2	Molecular Medicine
300919.1	Occupational Health and Safety
300924.1	Science Research Project
300861.1	Vertebrate Biodiversity

Major - Mathematics

M3054.1

This major covers topics in the traditional areas of calculus and algebra. Single and multivariable calculus are covered, as well as topics in linear algebra, analysis and mathematical modelling. This major is available to all undergraduate students and may meet the NSW Institute of Teachers accreditation requirements for teaching Mathematics as a first subject in NSW state high schools.

Location

Campus	Mode
Campbelltown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must complete eight units as follows

Level 1

200025.2	Discrete Mathematics
300672.2	Mathematics 1A
300673.2	Mathematics 1B

Level 2

Choose two units from the Level 2 units below

200028.3	Advanced Calculus
200030.4	Differential Equations
200027.3	Linear Algebra

Level 3

200193.2	Abstract Algebra
200023.3	Analysis
200022.3	Mathematical Modelling

Major - Food Science & Technology

M3057.1

A major in Food Science and Technology explores the science behind food, its preparation and manufacture. The program covers specialised topics in food processing, quality assurance, new product development, postharvest, packaging, microbiological and chemical analysis of foods. The program aims to develop in depth scientific understanding of processes involved in food manufacture and requirements to produce safe, nutritious and palatable

food. The major prepares students for a wide range of careers in the food and beverage related industries, including food product development, quality assurance, food regulations, research and development, plus management of fresh food supply. Students seeking to be secondary Food Technology teachers are advised to also select a Sub-major in Education Studies in preparation for Master of Teaching in their fourth year of study. This program will satisfy the requirements of the NSW Institute of Teachers for first teaching areas of 'Food Technology' and 'Biology', with further teaching areas possible in 'chemistry', 'physics', or 'design and technology' depending on the electives selected.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Standard Food Science and Technology Major
Students must complete eight units as follows

300904.1	Advanced Food Science and Technology
300871.1	Culinary Science
300915.1	Food Product Development
300859.1	Food Safety
300883.1	Laboratory Quality Management
300869.1	Postharvest
300922.2	Quality Assurance and Food Analysis

And choose one of

300866.1	Analytical Microbiology
300843.1	Forensic and Environmental Analysis

Food Science and Technology Major for Students undertaking the Education Studies Sub Major

Students must complete eight units as follows, plus be enrolled in the Education Studies sub major

300904.1	Advanced Food Science and Technology
300871.1	Culinary Science
300915.1	Food Product Development
300859.1	Food Safety
300805.1	Food Science 1
300842.2	Food Science 2
300869.1	Postharvest
300922.2	Quality Assurance and Food Analysis

Major - Human Nutrition

M3059.1

A major in Human Nutrition investigates healthy eating as a vital part of good health. This major offers a human nutrition specialisation for students enrolled in the Nutrition and Food Science degree. The major covers nutrition and health, with specialised studies in community nutrition, public health nutrition, human physiology, health promotion and food studies. The program aims to develop understanding of human nutrition as it applies to the various stages of life, as well as examining the development of Australian dietary practices and diet related

disorders. Students will explore the role of community food systems; developing strategies for social research methods and applications in public health nutrition and health promotion. The major prepares students for careers in community nutrition, health promotion and education, or work in a range of food and nutrition related businesses, including new product development of healthy foods. Those students seeking postgraduate studies in dietetics with the objective of becoming an accredited practising dietician should select a double major of 'Nutrition and Physiology' with the 'Human Nutrition' major and complete further studies in metabolism and advanced physiology.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete eight units as follows

Year 2

Autumn session

300933.1	Nutrition and Health 1
300936.1	Functional Proteins and Genes

Spring session

300934.1	Nutrition and Health 2
300818.1	Introduction to Physiology

Year 3

Autumn session

300928.1	Consumer Issues in Nutrition
300871.1	Culinary Science

Spring session

300908.1	Applied Nutrition
300917.1	Global Nutrition, Food and Community

Major - Medicinal Chemistry

M3060.1

Location

Campus	Mode
Campbelltown Campus	Internal

Specialisation Structure

Note - At least 60 credit points must be at Level 3 or above (two electives/Schedule C units must be at least a Level 3 unit)

Year 2

Autumn session

300936.1	Functional Proteins and Genes
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300876.1 Organic Chemistry

One schedule C unit
And one elective

Spring session

300848.1	Metabolism
300889.1	Pathological Basis of Disease

One schedule C unit
And one elective

Year 3

Autumn session

300891.1	Advanced Medicinal Chemistry
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Two schedule C units
And one elective

Spring session

300893.1	Topics in Medical Science
300920.1	Pharmacological Chemistry
300906.1	Advanced Organic Chemistry

And one elective

Schedule C Units

Choose four of

300925.1	Advanced Analytical Chemistry
300907.1	Advanced Inorganic Chemistry
300832.1	Analytical Chemistry
300899.1	Inorganic Chemistry
300912.1	Molecular Pharmacokinetics
300849.2	Physical Chemistry

Mid-year Intake

From Autumn 2017, there is a change in unit sequence for the mid year intake.

Note - At least 60 credit points must be at Level 3 or above (two electives/Schedule C units must be at least a Level 3 unit)

Year 1

Spring session

300816.1	Cell Biology
300803.1	Essential Chemistry 2
300818.1	Introduction to Physiology
300811.1	Scientific Literacy

Autumn session

300802.2	Biodiversity
301126.1	Concepts in Human Anatomy

Choose one of

300800.2	Essential Chemistry 1
300808.2	Introductory Chemistry

Please note unit 300800 is no longer available from 2017. Students should take unit 300808 Introductory Chemistry.

Choose one of

- 300830.2** Analysis of Change
- 300831.3** Quantitative Thinking
- 300672.2** Mathematics 1A
- 200263.5** Biometry

Year 2

Spring session

- 300889.1** Pathological Basis of Disease

Two schedule C units
And one elective

Autumn session

- 300936.1** Functional Proteins and Genes
- 300876.1** Organic Chemistry

One schedule C unit
And one elective

Year 3

Spring session

- 300848.1** Metabolism
- 300920.1** Pharmacological Chemistry
- 300906.1** Advanced Organic Chemistry

And one elective

Autumn session

- 300891.1** Advanced Medicinal Chemistry
- 300893.1** Topics in Medical Science

One schedule C unit
And one elective

Schedule C Units

- 300925.1** Advanced Analytical Chemistry
- 300907.1** Advanced Inorganic Chemistry
- 300832.1** Analytical Chemistry
- 300899.1** Inorganic Chemistry
- 300912.1** Molecular Pharmacokinetics
- 300849.2** Physical Chemistry

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Major - Anatomy and Physiology

M3061.1

Location

Campus **Mode**

Campbelltown Campus Internal

Specialisation Structure

Note - At least 60 credit points must be at Level 3 or above (two electives/Schedule B units must be at least a Level 3 unit)

Year 2

Autumn session

- 300936.1** Functional Proteins and Genes
- 300894.2** Anatomy of the Thorax and Abdomen

One schedule B unit
And one elective

Spring session

- 300848.1** Metabolism
- 300889.1** Pathological Basis of Disease
- 300884.2** Pharmacology

And one elective

Year 3

Autumn session

- 300819.1** Topics in Physiology
- 300851.1** Advanced Physiology

One schedule B unit
And one elective

Spring session

- 300754.3** Neuroanatomy
- 300893.1** Topics in Medical Science

One schedule B unit
And one elective

Schedule B Units

Choose three of

- 300905.1** Advanced Immunology
- 300897.2** Anatomy of the Head and Neck
- 300898.3** Appendicular Skeleton
- 300838.1** Comparative Physiology
- 300845.1** Genetics
- 300820.1** Genes, Genomics and Human Health
- 300817.1** Molecular Biology
- 300927.2** Molecular Medicine

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

300816.1	Cell Biology
300803.1	Essential Chemistry 2
300818.1	Introduction to Physiology
300811.1	Scientific Literacy

Autumn session

300936.1	Functional Proteins and Genes
301126.1	Concepts in Human Anatomy

Choose one of

300800.2	Essential Chemistry 1
300808.2	Introductory Chemistry

Please note unit 300800 is no longer available from 2017. Students should take unit 300808 Introductory Chemistry.

Choose one of

300830.2	Analysis of Change
200263.5	Biometry
300672.2	Mathematics 1A
300831.3	Quantitative Thinking

Year 2**Spring session**

300848.1	Metabolism
300889.1	Pathological Basis of Disease
300884.2	Pharmacology

One schedule B unit

Autumn session

300802.2	Biodiversity
300894.2	Anatomy of the Thorax and Abdomen

One schedule B unit

And one elective

Year 3**Spring session**

300893.1	Topics in Medical Science
300754.3	Neuroanatomy

One schedule B unit

And one elective

Autumn session

300819.1	Topics in Physiology
300851.1	Advanced Physiology

One schedule B unit

And one elective

Schedule B Units

Choose three of

300905.1	Advanced Immunology
300897.2	Anatomy of the Head and Neck
300898.3	Appendicular Skeleton
300838.1	Comparative Physiology
300820.1	Genes, Genomics and Human Health
300845.1	Genetics
300817.1	Molecular Biology
300927.2	Molecular Medicine

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Major - Biomedical Science**M3062.1****Location**

Campus	Mode
Campbelltown Campus	Internal
Hawkesbury Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Note - At least 60 credit points must be at Level 3 or above (five electives/ Schedule A units must be at least a Level 3 unit)

Year 2**Autumn session**

300936.1	Functional Proteins and Genes
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Two schedule A units

And one elective

Spring session

300848.1	Metabolism
300889.1	Pathological Basis of Disease

One schedule A unit

And one elective

Year 3**Autumn session**

Three schedule A units
And one elective

Spring session

300893.1	Topics in Medical Science
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Two schedule A units

And one elective

Schedule A Units

Choose eight of

300850.1	Advanced Cell Biology
300905.1	Advanced Immunology
300866.1	Analytical Microbiology
300820.1	Genes, Genomics and Human Health
300845.1	Genetics
300847.2	Immunology
300826.1	Medical Microbiology
300833.1	Microbiology 1
300896.1	Microbiology 2
300817.1	Molecular Biology
300927.2	Molecular Medicine

Mid Year Intake

Note - At least 60 credit points must be at Level 3 or above (five electives/ Schedule A units must be at least a Level 3 unit)

Year 1**Spring session**

300816.1	Cell Biology
300803.1	Essential Chemistry 2
300818.1	Introduction to Physiology
300811.1	Scientific Literacy

Autumn session

300802.2	Biodiversity
301126.1	Concepts in Human Anatomy

Choose one of

300800.2	Essential Chemistry 1
300808.2	Introductory Chemistry

Please note unit 300800 is no longer available from 2017. Students should take unit 300808 Introductory Chemistry.

Choose one of

300830.2	Analysis of Change
200263.5	Biometry
300672.2	Mathematics 1A
300831.3	Quantitative Thinking

Year 2**Spring session**

300889.1	Pathological Basis of Disease
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Three schedule A units

Autumn session

300936.1	Functional Proteins and Genes
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Two schedule A units

And one elective

Year 3**Spring session**

300848.1	Metabolism
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300893.1	Topics in Medical Science
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Two schedule A units

Autumn session

Four Schedule A Units

Schedule A Units

Choose eight of

300850.1	Advanced Cell Biology
300905.1	Advanced Immunology
300866.1	Analytical Microbiology
300820.1	Genes, Genomics and Human Health
300845.1	Genetics
300847.2	Immunology
300826.1	Medical Microbiology
300833.1	Microbiology 1
300896.1	Microbiology 2
300817.1	Molecular Biology
300927.2	Molecular Medicine

Mid-year Intake - Alternate pattern

Note - At least 60 credit points must be at Level 3 or above (five electives/ Schedule A units must be at least a Level 3 unit)

Year 1**Spring session**

300816.1	Cell Biology
300803.1	Essential Chemistry 2
300818.1	Introduction to Physiology
300811.1	Scientific Literacy

Autumn session

300936.1	Functional Proteins and Genes
301126.1	Concepts in Human Anatomy

Choose one of

300800.2	Essential Chemistry 1
300808.2	Introductory Chemistry

Choose one of

300830.2	Analysis of Change
200263.5	Biometry
300672.2	Mathematics 1A
300831.3	Quantitative Thinking

Year 2**Spring session**

300848.1	Metabolism
300889.1	Pathological Basis of Disease

One schedule A unit

And one elective

Autumn session

300802.2	Biodiversity
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Two schedule A units

And one elective

Year 3

Spring session

300893.1 Topics in Medical Science

Three schedule A units

Autumn session

Two schedule A units

And two electives

Schedule A Units

Choose eight of

300850.1	Advanced Cell Biology
300905.1	Advanced Immunology
300866.1	Analytical Microbiology
300820.1	Genes, Genomics and Human Health
300845.1	Genetics
300847.2	Immunology
300826.1	Medical Microbiology
300833.1	Microbiology 1
300896.1	Microbiology 2
300817.1	Molecular Biology
300927.2	Molecular Medicine

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points).

Western Sydney University offers sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective major or sub-major via MySR.

Major - Climate Change

M3078.1

A factual understanding of climate, the components that go to make it up, and how climate has varied in the past, is essential for any person working in the climate change area. This unit will introduce students to the concept of climate, our understanding of how it works, and how it has changed through time. Topics in basic atmospheric science will give students a critical understanding of current environmental concerns and debates about the greenhouse effect and climate change, and the science behind greenhouse gas accounting. Students will be introduced to current atmosphere-related research at Western Sydney University and elsewhere.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete eight units as follows

Level 1

300802.2 Biodiversity

Choose one of

300800.2 Essential Chemistry 1
300808.2 Introductory Chemistry

Level 2

300837.1 Climate Change Science
300839.1 Ecology

Choose one of

300838.1 Comparative Physiology
300865.1 Plant Physiology
300980.1 Principles of Evolution

Level 3

300909.1 Biological Adaptation to Climate Change
300856.1 Ecosystem Carbon Accounting

Choose one of

300857.1 Environmental Geochemistry

Please note unit 300857 replaced by 301212 Science of the Anthropocene from 2019.

301212.1 Science of the Anthropocene
300855.1 Conservation Biology

Major - Conservation Biology

M3079.1

Conservation biology has emerged as a field of study from a synthesis of the ecological, demographic, genetic and societal risks faced by small natural populations. This major equips students with skills in fundamental biology, in the ecology of populations and communities, in population genetics and in the legal conservation framework to enable them to work in this area.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete eight units; up to three of these units can come from level 1, and three must come from level 3.

Level 1

300802.2 Biodiversity
300816.1 Cell Biology
300813.1 Wildlife Studies
300824.1 Management of Aquatic Environments

Level 2

300839.1	Ecology
300845.1	Genetics
300836.1	Botany
300980.1	Principles of Evolution

Level 3

300855.1	Conservation Biology
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And choose two of

300929.1	Aquatic Ecology
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300929 - Aquatic Ecology replaced by 300978 Marine and Aquatic Ecology from Autumn 2016.

300909.1	Biological Adaptation to Climate Change
300978.1	Marine and Aquatic Ecology
300861.1	Vertebrate Biodiversity

Major - General Biology**M3080.1**

The major in General Biology gives students a broad training in biology, with the opportunity to select a program that ranges across the scale from macro- to micro- to molecular level processes. Completion of the major meets the requirements for secondary school biology teaching (post-graduate study is required to qualify as a teacher).

Location

Campus	Mode
Campbelltown Campus	Internal
Hawkesbury Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must complete eight units as follows

Level 1

300802.2	Biodiversity
300816.1	Cell Biology

Choose six of the following units, including at least three units at Level 3.

Level 1

300800.2	Essential Chemistry 1
300803.1	Essential Chemistry 2

Level 2

300836.1	Botany
300838.1	Comparative Physiology
300839.1	Ecology
300936.1	Functional Proteins and Genes
300845.1	Genetics
300847.2	Immunology

300848.1	Metabolism
300833.1	Microbiology 1
300896.1	Microbiology 2
300817.1	Molecular Biology
300865.1	Plant Physiology
300980.1	Principles of Evolution
300979.1	Principles of Zoology

Level 3

300850.1	Advanced Cell Biology
300905.1	Advanced Immunology
300851.1	Advanced Physiology
300866.1	Analytical Microbiology
300929.1	Aquatic Ecology
300855.1	Conservation Biology
300819.1	Topics in Physiology
300820.1	Genes, Genomics and Human Health
300918.3	Invertebrate Biology
300883.1	Laboratory Quality Management
300826.1	Medical Microbiology
300927.2	Molecular Medicine
300919.1	Occupational Health and Safety
300924.1	Science Research Project
300861.1	Vertebrate Biodiversity

Major - Marine Biology**M3081.1**

Marine environments play vital roles in providing food, water, recreation and other ecosystem services to human society, as well as providing habitat for important species that make up global biodiversity. This major will equip students with the background knowledge and training to work in marine environments, to learn skills in inquiry and problem solving, so that they can contribute beneficially to management and/or conservation of waterways and oceans and the biodiversity within them.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete the following eight units

Level 1

300802.2	Biodiversity
300824.1	Management of Aquatic Environments

Level 2

Choose three of

300838.1	Comparative Physiology
300839.1	Ecology
300979.1	Principles of Zoology
300877.1	Toxicology

Level 3

300929.1 Aquatic Ecology

300929 - Aquatic Ecology has been replaced by 300978 Marine and Aquatic Ecology from Autumn 2014

300978.1 Marine and Aquatic Ecology
300909.1 Biological Adaptation to Climate Change

Choose one of

300924.1 Science Research Project
300861.1 Vertebrate Biodiversity
300870.1 Water in the Landscape

Major - Zoology**M3082.1**

This major trains students in how to best care for and protect our animals, by covering scientific knowledge of native wildlife, companion animals, and production animals. This major will allow students to develop scientific understanding of how animals function and interact with their environment; from their ecology and evolution; to physiology and biochemistry of tissues and major organ systems, as well as structure and function of biomolecules and cells. On-campus animal facilities include those for reptiles, small marsupials, small rodents, horses, sheep and cattle, as well as over 1000ha of native, rural and aquatic habitats.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete eight units as follows

Level 1

Choose two of

300802.2 Biodiversity
300816.1 Cell Biology
300813.1 Wildlife Studies

Level 2

300979.1 Principles of Zoology

Choose two of

300835.1 Animal Reproduction
300838.1 Comparative Physiology
300839.1 Ecology
300845.1 Genetics
300980.1 Principles of Evolution

Level 3

300909.1 Biological Adaptation to Climate Change

Choose two of

300929.1 Aquatic Ecology

300929 - Aquatic Ecology has been replaced by 300978 Marine and Aquatic Ecology from Autumn 2014

300878.1 Animal Behaviour
300918.3 Invertebrate Biology
300978.1 Marine and Aquatic Ecology
300861.1 Vertebrate Biodiversity

Major - Environmental Consulting**M3084.1**

This major in Environmental Consulting prepares graduates for jobs in environmental consulting companies, government environmental offices, land and water management agencies or non-government organisations. The natural resources boom and growing human population in Australia have created a demand for environmental specialists to conduct and prepare environmental assessments and impact statements. This major will provide you with broad skills in fauna, flora and habitat assessments, as well as, policy and regulation associated with planning and development in Australia.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete of the following eight units

Level 1

300813.1 Wildlife Studies
200571.4 Management Dynamics

200912 - Enterprise Leadership replaced 200571 Management Dynamics from 2016.

200912.1 Enterprise Leadership

Choose one of

200263.5 Biometry
300831.3 Quantitative Thinking

Level 2

300841.1 Environmental Regulation and Policy

Level 3

300858.1 Environmental Risk Management
300918.3 Invertebrate Biology
300861.1 Vertebrate Biodiversity

Choose one of

300914.1 Field Project 2
300924.1 Science Research Project

Major - Nutrition and Physiology

M3089.1

This major addresses the physiological and nutritional foundations for understanding the nature of food and the physiological and epidemiological relationships between food, nutrients and components of food and common diet-related diseases prevalent in Australia. The study of nutrition and human physiology incorporates knowledge of the human biology and biochemistry to understand how the body utilizes nutrients and related substances for optimal health throughout the lifecycle. This major is recommended for students seeking an in-depth understanding of diet-related health issues and are intending to work in allied or community health, education, or seeking postgraduate studies in nutrition, dietetics or public health.

Location

Campus	Mode
Bankstown Campus	Internal
Campbelltown Campus	Internal
Hawkesbury Campus	Internal
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must complete the following units

Level 2

300936.1	Functional Proteins and Genes
300848.1	Metabolism
300933.1	Nutrition and Health 1
300934.1	Nutrition and Health 2

Level 3

300851.1	Advanced Physiology
300819.1	Topics in Physiology

Choose two of the following

300908.1	Applied Nutrition
300928.1	Consumer Issues in Nutrition
300917.1	Global Nutrition, Food and Community

Major - Biochemistry and Molecular Biology

M3090.1

This major will equip students with knowledge and skills in fundamental biology and chemistry, biochemistry and molecular biology to allow students to enter industrial or research-based employment in this area (biotech companies, pathology, quality assurance, university and hospital labs and scientific sales, government policy analysis). As this area has expanding knowledge and

technologies, outcomes also include the ability to read, critique and evaluate emerging research with the view to becoming a life-long learner in the field. The outcomes of this major would support honours or masters level research in this area.

Location

Campus	Mode
Campbelltown Campus	Internal
Hawkesbury Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must complete eight units as follows

Three units must be at Level 3

Level 1

300816.1	Cell Biology
300803.1	Essential Chemistry 2

Level 2

300936.1	Functional Proteins and Genes
300848.1	Metabolism

Choose one of the following

300845.1	Genetics
300847.2	Immunology
300817.1	Molecular Biology

Level 3

Choose three of the following

300850.1	Advanced Cell Biology
300905.1	Advanced Immunology
300820.1	Genes, Genomics and Human Health
300927.2	Molecular Medicine

Major - Microbiology

M3099.1

Microorganisms impact on all aspects of our lives. A major in microbiology will equip students with the skills and knowledge of microbiology and molecular microbiology relevant to employment in research laboratories and industries including biotechnology companies, medical and environmental laboratories, food, wine and pharmaceutical companies, quality assurance and scientific sales. The major, which includes the study of bacteria, fungi, protists and viruses and their roles in medicine, industry and the environment, will also provide a foundation for research at Honours and postgraduate levels.

Location

Campus	Mode
Campbelltown Campus	Internal

Campus	Mode
Hawkesbury Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must complete eight units as follows

Level 2

300936.1	Functional Proteins and Genes
300833.1	Microbiology 1
300896.1	Microbiology 2
300817.1	Molecular Biology

Level 3

Choose four of

300905.1	Advanced Immunology
300866.1	Analytical Microbiology
300883.1	Laboratory Quality Management
300826.1	Medical Microbiology
300924.1	Science Research Project

Major - Forensic Chemistry

M3100.1

This major gives a systematic introduction to the principles and practice of forensic chemistry. Forensic chemistry is the science underlying many forensic investigations from the analysis of toxic material to the detection and identification of illicit drug use. Forensic chemistry also forms the basis of a large portion of the techniques used at the crime scene. This major is designed to complement a science-based degree, but it may also be taken by students who are studying a different discipline or profession as all pre-requisites are included.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete eight units as follows

Level 1

300800.2	Essential Chemistry 1
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Or

300808.2	Introductory Chemistry
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Note: Only one chemistry unit may be chosen. Choose 300800 - Essential Chemistry OR 300803 - Introductory Chemistry.

300803.1	Essential Chemistry 2
300806.1	Forensic Science

Level 2

300935.2	Evidence and Crime Scene Management
300843.1	Forensic and Environmental Analysis

Level 3

300981.1	Environmental Forensic Investigations
300868.1	Forensic Chemistry
300883.1	Laboratory Quality Management

Major - Medicinal Chemistry

M3103.1

Specialisation Structure

Students completing the Bachelor of Medical Science (Advanced) with a major in Medicinal Chemistry will complete the following course structure.

Note: At least 60 credit points must be at Level 3 or above (one Schedule C unit must be at least a Level 3 unit)

Year 1

Autumn session

300802.2	Biodiversity
300811.1	Scientific Literacy
301126.1	Concepts in Human Anatomy

Choose one of

300800.2	Essential Chemistry 1
300808.2	Introductory Chemistry

Please note unit 300800 is no longer available from 2017. Students should take unit 300808 Introductory Chemistry.

Spring session

300816.1	Cell Biology
300803.1	Essential Chemistry 2
300818.1	Introduction to Physiology

Choose one of

300830.2	Analysis of Change
200263.5	Biometry
300672.2	Mathematics 1A
300831.3	Quantitative Thinking

Year 2

Autumn session

300936.1	Functional Proteins and Genes
300937.1	Advanced Science Project A
300876.1	Organic Chemistry

One schedule C unit

Spring session

300848.1	Metabolism
300889.1	Pathological Basis of Disease
300938.1	Advanced Science Project B

One schedule C unit

Year 3**Autumn session**

- 300891.1 Advanced Medicinal Chemistry
 300910.1 Advanced Science Project C
 300893.1 Topics in Medical Science

One schedule C unit

Spring session

- 300920.1 Pharmacological Chemistry
 300906.1 Advanced Organic Chemistry
 300892.1 Medical Science Project

One schedule C unit

Schedule C Units

Choose four of

- 300925.1 Advanced Analytical Chemistry
 300907.1 Advanced Inorganic Chemistry
 300832.1 Analytical Chemistry
 300899.1 Inorganic Chemistry
 300912.1 Molecular Pharmacokinetics
 300849.2 Physical Chemistry

Major - Anatomy and Physiology**M3104.1****Specialisation Structure**

Students completing the Bachelor of Medical Science (Advanced) with a major in Anatomy and Physiology will complete the following course structure.

Note: At least 60 credit points must be at Level 3 or above (one Schedule B unit must be at least a Level 3 unit)

Year 1**Autumn session**

- 300802.2 Biodiversity
 300811.1 Scientific Literacy
 301126.1 Concepts in Human Anatomy

Choose one of

- 300800.2 Essential Chemistry 1
 300808.2 Introductory Chemistry

Please note unit 300800 is no longer available from 2017. Students should take unit 300808 Introductory Chemistry.

Spring session

- 300816.1 Cell Biology
 300803.1 Essential Chemistry 2
 300818.1 Introduction to Physiology

Choose one of

- 300830.2 Analysis of Change
 200263.5 Biometry
 300672.2 Mathematics 1A
 300831.3 Quantitative Thinking

Year 2**Autumn session**

- 300936.1 Functional Proteins and Genes
 300894.2 Anatomy of the Thorax and Abdomen
 300937.1 Advanced Science Project A

And one schedule B unit

Spring session

- 300848.1 Metabolism
 300889.1 Pathological Basis of Disease
 300938.1 Advanced Science Project B
 300884.2 Pharmacology

Year 3**Autumn session**

- 300819.1 Topics in Physiology
 300851.1 Advanced Physiology
 300910.1 Advanced Science Project C
 300893.1 Topics in Medical Science

Spring session

- 300754.3 Neuroanatomy
 300892.1 Medical Science Project

Two schedule B units

Schedule B Units

Choose three of

- 300905.1 Advanced Immunology
 300897.2 Anatomy of the Head and Neck
 300898.3 Appendicular Skeleton
 300838.1 Comparative Physiology
 300820.1 Genes, Genomics and Human Health
 300845.1 Genetics
 300817.1 Molecular Biology
 300927.2 Molecular Medicine

Major - Biomedical Science**M3105.1****Specialisation Structure**

Students completing the Bachelor of Medical Science (Advanced) with a major in Biomedical Science will complete the following course structure.

Note: At least 60 credit points must be at Level 3 or above (four Schedule A units must be at least a Level 3 unit)

Year 1**Autumn session**

- 300802.2 Biodiversity
 300811.1 Scientific Literacy
 301126.1 Concepts in Human Anatomy

Choose one of

- 300800.2** Essential Chemistry 1
300808.2 Introductory Chemistry

Please note unit 300800 is no longer available from 2017. Students should take unit 300808 Introductory Chemistry.

Spring session

- 300816.1** Cell Biology
300803.1 Essential Chemistry 2
300818.1 Introduction to Physiology

Choose one of

- 300830.2** Analysis of Change
200263.5 Biometry
300831.3 Quantitative Thinking
300672.2 Mathematics 1A

Year 2

Autumn session

- 300936.1** Functional Proteins and Genes
300937.1 Advanced Science Project A

Two schedule A units

Spring session

- 300848.1** Metabolism
300889.1 Pathological Basis of Disease
300938.1 Advanced Science Project B

One schedule A unit

Year 3

Autumn session

- 300910.1** Advanced Science Project C
300893.1 Topics in Medical Science

Two schedule A units

Spring session

- 300892.1** Medical Science Project

Three schedule A units

Schedule A Units

Choose eight of

- 300850.1** Advanced Cell Biology
300905.1 Advanced Immunology
300866.1 Analytical Microbiology
300820.1 Genes, Genomics and Human Health
300845.1 Genetics
300847.2 Immunology
300826.1 Medical Microbiology
300833.1 Microbiology 1
300896.1 Microbiology 2
300817.1 Molecular Biology
300927.2 Molecular Medicine

Major - Therapeutic Recreation

M4000.1

Specialisation Structure

Students must complete the following eight units

- 400249.2** Ethical and Legal Issues in Health Care
400244.3 Introduction to Leisure and Recreation Theory
400789.3 Leisure Education Programming and Mental Health
400968.2 Professional Practice in Aged Care and Disability
400786.4 Professional Transition Project
400254.2 Therapeutic Recreation Professional Project
400246.4 Workplace Learning 1 (Therapeutic Recreation)
400252.3 Workplace Learning 2 (Community Placement)

Major - Health Promotion

M4001.1

Specialisation Structure

Students must complete the following eight units

- 400249.2** Ethical and Legal Issues in Health Care
400275.2 Health Planning Project
401195.1 Health Politics, Policy and Planning
400784.4 Health Promotion Practice 1
400785.2 Health Promotion Practice 2
400286.4 Injury Prevention
400786.4 Professional Transition Project
400285.2 Public Health

Major - Health Services Management

M4002.1

Specialisation Structure

Students must complete the following eight units

- 400249.2** Ethical and Legal Issues in Health Care
400275.2 Health Planning Project
401195.1 Health Politics, Policy and Planning
400279.4 Health Services Financial Management
400277.4 Health Services Management
400787.3 Health Services Management Practice
400788.4 Health Services Workforce Management
400786.4 Professional Transition Project

Major - Public Health**M4003.1****Specialisation Structure**

Students must complete the following eight units

401194.2	Contemporary Issues in Public Health
400249.2	Ethical and Legal Issues in Health Care
300872.1	Epidemiology
400275.2	Health Planning Project
401195.1	Health Politics, Policy and Planning
400786.4	Professional Transition Project
400285.2	Public Health
401193.1	Public Health Practice

Major - Environmental Consulting**M4011.1**

This major in Environmental Consulting prepares graduates for jobs in environmental consulting companies, government environmental offices, land and water management agencies or non-government organisations. The natural resources boom and growing human population in Australia have created a demand for environmental specialists to conduct and prepare environmental assessments and impact statements. This major will provide you with broad skills in fauna, flora and habitat assessments, as well as, policy and regulation associated with planning and development in Australia.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete the following eight units

Level 1

200912.1	Enterprise Leadership
300813.1	Wildlife Studies

Choose one of

200263.5	Biometry
300831.3	Quantitative Thinking

Level 2

300841.1	Environmental Regulation and Policy
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Level 3

300858.1	Environmental Risk Management
300918.3	Invertebrate Biology
300861.1	Vertebrate Biodiversity

Choose one of

300914.1	Field Project 2
300924.1	Science Research Project

Major - Crime Scene Investigation**M4012.1**

This major reinforces the knowledge and practical skills required for crime scene investigation as a core forensic science discipline. It draws on key forensic science concepts such as evidence integrity and continuity, case file management, and the interpretation and presentation of forensic information. After completion of the major, students will be able to correctly document crime scenes through photography, note taking and diagrams, collect and analyse potential forensic evidence, interpret data from observations and scientific analyses, and present findings through written reports. As well as crime scene investigation, the major provides students with a solid grounding across a range of forensic science disciplines that include forensic biology, forensic chemistry and forensic anthropology.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

NOTE: This major is also available to students in Course 3562.9 Bachelor of Science (Advanced Science) - KT3149 - Forensic Science

Students must complete eight units as follows

Level 1

300874.2	Digital Forensic Photography
300806.1	Forensic Science

Level 2

300873.2	Crime Scene Investigation
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Choose one of

300843.1	Forensic and Environmental Analysis
401171.1	Imaging Science

Level 3

Select four of

300911.1	Complex Forensic Studies
300981.1	Environmental Forensic Investigations
301120.2	Forensic Anthropology
401170.2	Forensic Biology
300868.1	Forensic Chemistry

Major - Natural Science**M4016.1****Location**

Campus	Mode
Hawkesbury Campus	Internal

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

300804.1	Feeding the Planet
300811.1	Scientific Literacy
300802.1	Biodiversity
300808.2	Introductory Chemistry

Spring session

300823.1	Soils
300831.3	Quantitative Thinking
300805.1	Food Science 1
301096.1	Horticultural Production Systems

Year 2**Autumn session**

301097.1	Greenhouse Technology for Food Sustainability
300840.1	Environmental Planning and Climate Change
300931.1	Integrated Science

And one elective

Spring session

300791.1	Sustainable Food Production
300790.1	Agriculture, Food and Health
300932.1	Natural Science Research Methods
300816.1	Cell Biology

Year 3**1H/Autumn session**

300913.1	Field Project 1
301098.1	Analysis of Agricultural Supply and Demand
300921.1	Plant Health and Biosecurity

Choose one of

300845.1	Genetics
300865.1	Plant Physiology

2H/Spring session

300914.1	Field Project 2
300870.1	Water in the Landscape
300869.1	Postharvest

Biological Farming Systems (AGR306) - in partnership with Charles Sturt University

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

300805.1	Food Science 1
301096.1	Horticultural Production Systems
300811.1	Scientific Literacy

And one elective

Autumn session

300804.1	Feeding the Planet
300802.2	Biodiversity
300808.2	Introductory Chemistry
300831.3	Quantitative Thinking

Year 2**Spring session**

300791.1	Sustainable Food Production
300790.1	Agriculture, Food and Health
300932.1	Natural Science Research Methods
300823.1	Soils

1H/Autumn session

300913.1	Field Project 1
301097.1	Greenhouse Technology for Food Sustainability
300931.1	Integrated Science

And one elective

Year 3**2H/Spring session**

300914.1	Field Project 2
300870.1	Water in the Landscape
300869.1	Postharvest

Biological Farming Systems (AGR306) - in partnership with Charles Sturt University

Autumn session

300840.1	Environmental Planning and Climate Change
301098.1	Analysis of Agricultural Supply and Demand
300921.1	Plant Health and Biosecurity

Choose one of

300845.1	Genetics
300865.1	Plant Physiology

Major - Social Sciences

M4017.1**Location**

Campus	Mode
Hawkesbury Campus	Internal

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

300804.1	Feeding the Planet
300811.1	Scientific Literacy
300802.1	Biodiversity
300808.2	Introductory Chemistry

Spring session

300823.1	Soils
300831.3	Quantitative Thinking
300805.1	Food Science 1
301096.1	Horticultural Production Systems

Year 2**Autumn session**

301097.1	Greenhouse Technology for Food Sustainability
300840.1	Environmental Planning and Climate Change
101331.2	Issues in World Development: Rich World, Poor World

Communication Project Management (COM 343) - in partnership with Charles Sturt University

Spring session

300791.1	Sustainable Food Production
300790.1	Agriculture, Food and Health
300932.1	Natural Science Research Methods
102212.2	Internship and Community Engagement

Year 3**1H/Autumn session**

300913.1	Field Project 1
301098.1	Analysis of Agricultural Supply and Demand
101569.2	Sustainable Futures
101593.3	Planning the City: Development, Community and Systems

2H/Spring session

300914.1	Field Project 2
300961.3	Social Computing
101595.2	Community and Social Action
101591.2	The Economics of Cities and Regions

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

300805.1	Food Science 1
301096.1	Horticultural Production Systems
300811.1	Scientific Literacy

And one elective

1H/Autumn session

300804.1	Feeding the Planet
300802.1	Biodiversity
300808.2	Introductory Chemistry
300831.3	Quantitative Thinking

Year 2**Spring session**

300791.1	Sustainable Food Production
300790.1	Agriculture, Food and Health
300932.1	Natural Science Research Methods
300823.1	Soils

1H/Autumn session

300913.1	Field Project 1
301097.1	Greenhouse Technology for Food Sustainability
101331.2	Issues in World Development: Rich World, Poor World

Communication Project Management (COM 343) - in partnership with Charles Sturt University

Year 3**2H/Spring session**

300914.1	Field Project 2
300961.3	Social Computing
101595.2	Community and Social Action
101591.2	The Economics of Cities and Regions

Autumn session

300840.1	Environmental Planning and Climate Change
301098.1	Analysis of Agricultural Supply and Demand
101569.2	Sustainable Futures
101593.3	Planning the City: Development, Community and Systems

Major - Business

M4018.1**Location**

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Start year Intake

Year 1

Autumn session

300804.1	Feeding the Planet
300811.1	Scientific Literacy
300802.1	Biodiversity
300808.2	Introductory Chemistry

Spring session

300823.1	Soils
300831.3	Quantitative Thinking
300805.1	Food Science 1
301096.1	Horticultural Production Systems

Year 2

Autumn session

301097.1	Greenhouse Technology for Food Sustainability
300840.1	Environmental Planning and Climate Change
200083.2	Marketing Principles
200525.3	Principles of Economics

Spring session

300791.1	Sustainable Food Production
300790.1	Agriculture, Food and Health
300932.1	Natural Science Research Methods
200084.2	Consumer Behaviour

Year 3

1H/Autumn session

300913.1	Field Project 1
301098.1	Analysis of Agricultural Supply and Demand
200862.1	Creating Change and Innovation
200088.3	Brand and Product Management

2H/Spring session

300914.1	Field Project 2
200815.2	Globalisation and Sustainability
200158.4	Business, Society and Policy

Choose one of

200094.4	International Marketing
200086.3	Marketing Communications
200087.3	Strategic Marketing Management

Mid-year Intake

Year 1

Spring session

300805.1	Food Science 1
301096.1	Horticultural Production Systems
300811.1	Scientific Literacy

200084.2 Consumer Behaviour

Autumn session

300804.1	Feeding the Planet
300831.3	Quantitative Thinking
300802.1	Biodiversity
300808.2	Introductory Chemistry

Year 2

Spring session

300791.1	Sustainable Food Production
300790.1	Agriculture, Food and Health
300932.1	Natural Science Research Methods
300823.1	Soils

1H/Autumn session

300913.1	Field Project 1
301097.1	Greenhouse Technology for Food Sustainability
200083.2	Marketing Principles
200525.3	Principles of Economics

Year 3

2H/Spring session

300914.1	Field Project 2
200815.2	Globalisation and Sustainability
200158.4	Business, Society and Policy

Choose one of

200094.4	International Marketing
200087.3	Strategic Marketing Management
200086.3	Marketing Communications

Autumn session

300840.1	Environmental Planning and Climate Change
301098.1	Analysis of Agricultural Supply and Demand
200862.1	Creating Change and Innovation
200088.3	Brand and Product Management

Major - Applied Finance

MT2021.1

The Applied Finance major equips you with the expert skills to create a career as a finance specialist. In this major you will develop in-depth knowledge of finance with a focus on investment and securities, economics, and banking and finance. The core units in the Bachelor of Business will provide you a foundation of business knowledge and develop your skills in innovation, career planning, and numeracy. The Applied Finance major builds on this knowledge and skills in an applied discipline based context. Finance specialists work in a range of roles within the rapidly growing finance sector. This major fulfils the educational requirements for admission as an Associate (A Fin) of the Financial Services Institute of Australasia (FINSIA) provided the applicant is at least working in the

financial services industry. All other students are eligible to apply for Affiliate membership (no postnominals apply).

Location

Campus	Mode
Parramatta City Campus-Macquarie Street	Internal
Sydney City Campus	Internal
Uni of Economics Ho Chi Minh City	Internal

Specialisation Structure

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

Core Units for this Major

200818.1	Bank Management
200488.4	Corporate Financial Management
200079.3	Derivatives
200916.1	Economic and Financial Modelling
200048.2	Financial Institutions and Markets
200055.5	International Finance
200819.2	Investment Management
200921.1	Security Analysis and Business Valuation

Professional Units for Careers in Money

Students undertaking the Applied Finance major are advised to take the following four units to satisfy the requirements for their professional core:

200537.4	Economics and Finance Engagement Project
200917.1	Innovation, Enterprise and Society
200914.1	Working in Professions

Choose one of

200052.6	Introduction to Economic Methods
200032.6	Statistics for Business

Recommended Sequence

Qualification for the award of Bachelor of Business with a major in Applied Finance requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time

Year 1

Autumn session

200909.2	Enterprise Law
200910.1	Financing Enterprises
200048.2	Financial Institutions and Markets

Choose one of

200052.6	Introduction to Economic Methods
200032.6	Statistics for Business

Spring session

200912.1	Enterprise Leadership
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200488.4	Corporate Financial Management
200911.1	Enterprise Innovation and Markets

And one elective

Year 2

Autumn session

200819.2	Investment Management
200914.1	Working in Professions

And two electives

Spring session

200916.1	Economic and Financial Modelling
200055.5	International Finance

And two electives

Year 3

Autumn session

200818.1	Bank Management
200079.3	Derivatives
200917.1	Innovation, Enterprise and Society

And one elective

Spring session

200921.1	Security Analysis and Business Valuation
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Enterprise Engaged Unit:

200537.4	Economics and Finance Engagement Project
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And two electives

Part-time

Year 1

Autumn session

200909.2	Enterprise Law
200048.2	Financial Institutions and Markets

Spring session

200911.1	Enterprise Innovation and Markets
200910.1	Financing Enterprises

Year 2

Autumn session

200488.4	Corporate Financial Management
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Choose one of

200052.6	Introduction to Economic Methods
200032.6	Statistics for Business

Spring session

200912.1	Enterprise Leadership
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And one elective

Year 3**Autumn session****200819.2** Investment Management

And one elective

Spring session**200914.1** Working in Professions

And one elective

Year 4**Autumn session****200055.5** International Finance

And one elective

Spring session**200916.1** Economic and Financial Modelling

And one elective

Year 5**Autumn session****200818.1** Bank Management
200917.1 Innovation, Enterprise and Society**Spring session****200079.3** Derivatives

And one elective

Year 6**Autumn session**

Enterprise Engaged Unit:

200537.4 Economics and Finance Engagement Project

And one elective

Spring session**200921.1** Security Analysis and Business Valuation

And one elective

Major - Economics**MT2022.1**

The Economics major provides a broad pluralist perspective on fundamental aspects of relationships between individuals, firms, institutions and countries. Students will learn how economies function and how public policy and the way organisations behave affect diverse social, economic and environmental problems. Students are introduced to a wide array of competing economic theories, so that they are critically informed about the ways in which they can transform the world. A major in

Economics prepares students to be active participants in addressing the wide range of problems faced by governments, social organisations and the business community in the domestic and international economies. Students who study economics can expect to develop their analytical and problem solving skills and to be intellectually challenged, whether they view the discipline as providing specific vocational skills or as an area of academic and intellectual interest to them. An Economics major is very highly regarded in the business world and opens up a very large range of career prospects in general business, finance and the public sector.

Location**Campus**

Parramatta City Campus-Macquarie Street

Mode

Internal

Specialisation Structure

Qualification for the Economics major requires the successful completion of 80 credit points including all of the core units listed below.

Core Units for this Major

200922.1	Consumers, Firms and Markets
200923.1	Corporations, Economic Power and Policy
200924.2	Cost Benefit Analysis
200916.1	Economic and Financial Modelling
200815.2	Globalisation and Sustainability
200925.1	Growth, Cycles and Crises
200926.1	Macroeconomic Measures and Models
200549.2	The Australian Macroeconomy

Professional Units for Careers in Money

Students undertaking the Economics major are advised to take the following four units to satisfy the requirements for their professional core:

200537.4	Economics and Finance Engagement Project
200917.1	Innovation, Enterprise and Society
200914.1	Working in Professions

Choose one of

200052.6	Introduction to Economic Methods
200032.6	Statistics for Business

Recommended Sequence

Qualification for the award of Bachelor of Business with a major in Economics requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time**Year 1****Autumn session**

200909.2	Enterprise Law
200910.1	Financing Enterprises
200922.1	Consumers, Firms and Markets

Choose one of

200052.6	Introduction to Economic Methods
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200032.6 Statistics for Business

Spring session

200549.2 The Australian Macroeconomy
200912.1 Enterprise Leadership
200911.1 Enterprise Innovation and Markets

And one elective

Year 2

Autumn session

200924.2 Cost Benefit Analysis
200914.1 Working in Professions

And two electives

Spring session

200916.1 Economic and Financial Modelling
200926.1 Macroeconomic Measures and Models

And two electives

Year 3

Autumn session

200815.2 Globalisation and Sustainability
200923.1 Corporations, Economic Power and Policy
200917.1 Innovation, Enterprise and Society

And one elective

Spring session

200925.1 Growth, Cycles and Crises

Enterprise Engaged Unit:

200537.4 Economics and Finance Engagement Project

And two electives

Part-time

Year 1

Autumn session

200909.2 Enterprise Law
200911.1 Enterprise Innovation and Markets

Spring session

200910.1 Financing Enterprises
200922.1 Consumers, Firms and Markets

Year 2

Autumn session

200549.2 The Australian Macroeconomy

Choose one of

200052.6 Introduction to Economic Methods
200032.6 Statistics for Business

Spring session

200912.1 Enterprise Leadership

And one elective

Year 3

Autumn session

200924.2 Cost Benefit Analysis

And one elective

Spring session

200914.1 Working in Professions

And one elective

Year 4

Autumn session

200926.1 Macroeconomic Measures and Models

And one elective

Spring session

200916.1 Economic and Financial Modelling

And one elective

Year 5

Autumn session

200815.2 Globalisation and Sustainability
200917.1 Innovation, Enterprise and Society

Spring session

200923.1 Corporations, Economic Power and Policy

And one elective

Year 6

Autumn session

Enterprise Engaged Unit:

200537.4 Economics and Finance Engagement Project

And one elective

Spring session

200925.1 Growth, Cycles and Crises

And one elective

Major - Human Resource Management

MT2024.1

This major (including online) is accredited with the Australian Human Resources Institute (AHRI). The Human Resource Management Major is designed for people who seek careers in human resource management and

industrial relations. Graduates' careers focus on enhancing the value of human and social capital through supporting employee engagement for many different kinds of organisations, market-oriented and community-oriented organisations and many kinds of people. The teaching philosophy is based on knowledge in action, a fusion of the Australia Human Resource Institute's capabilities for HR professionals and the Western Sydney University Graduate Attributes designed to secure success. An aim of the program is to instil those values and attitudes that can support leaders in judgements about balancing the pursuit of organisational objectives with creating opportunities for developing people's capacities and careers. The perspectives are local and international, with an emphasis on the value of cultural and demographic diversity. Graduates have knowledge of how leadership and management of people can support organisational objectives and create organisational opportunities. This capacity comes from grounding in human resource management and industrial relations practice using contemporary law and research in applied projects. Students combine this with an education in the pressures organisations experience in inter-disciplinary subjects focused on money, markets and management. That is, graduates develop commercial acumen and appreciate the competing interests around work, aware of trends locally and internationally. Throughout the program, students are challenged to develop and demonstrate communication, cultural, and analytic skills required to be innovative and responsible team-members and leaders.

Location

Campus	Mode
Bankstown Campus	Internal
Campbelltown Campus	Internal
Parramatta City Campus-Macquarie Street	Internal
WSU Online	Multi Modal

Specialisation Structure

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

Core Units for this Major

200614.2	Enterprise Industrial Relations
200740.4	Human Resource and Industrial Relations Strategy
200859.1	Human Resource Development
200621.3	International Human Resource Management
200300.2	Managing People at Work
200613.2	Negotiation, Bargaining and Advocacy
200860.1	People, Work and Society
200739.2	Reward and Performance Management

Professional Units for Careers in Management

Students undertaking the Human Resource Management major are advised to take the following four units to satisfy the requirements for their professional core:

200919.1	Innovation and Professional Practice
301123.1	Management Analytics

200376.3	Managing and Developing Careers
200575.3	Processes and Evaluation in Employment Relations

Note: Students enrolled in MT2024 Human Resource Management are advised that the enterprise engaged unit 200575 Processes and Evaluation in Employment Relations is required for accreditation purposes.

Recommended Sequence

Qualification for the award of Bachelor of Business with a major in Human Resource Management requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time

Year 1

Autumn session

200910.1	Financing Enterprises
200912.1	Enterprise Leadership
200909.2	Enterprise Law
200300.2	Managing People at Work

Spring session

200911.1	Enterprise Innovation and Markets
200859.1	Human Resource Development
301123.1	Management Analytics

And one elective

Year 2

Autumn session

200614.2	Enterprise Industrial Relations
200621.3	International Human Resource Management

And two electives

Spring session

200739.2	Reward and Performance Management
200376.3	Managing and Developing Careers

And two electives

Year 3

Autumn session

200860.1	People, Work and Society
200613.2	Negotiation, Bargaining and Advocacy
200919.1	Innovation and Professional Practice

And one elective

Spring session

200740.4	Human Resource and Industrial Relations Strategy
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Enterprise Engaged Unit:

200575.3	Processes and Evaluation in Employment Relations
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And two electives

Part-time**Year 1****Autumn session**

200910.1 Financing Enterprises

200912.1 Enterprise Leadership

Spring session

301123.1 Management Analytics

200911.1 Enterprise Innovation and Markets

Year 2**Autumn session**

200909.2 Enterprise Law

200300.2 Managing People at Work

Spring session

200859.1 Human Resource Development

And one elective

Year 3**Autumn session**

200614.2 Enterprise Industrial Relations

And one elective

Spring session

200376.3 Managing and Developing Careers

And one elective

Year 4**Autumn session**

200621.3 International Human Resource Management

And one elective

Spring session

200739.2 Reward and Performance Management

And one elective

Year 5**Autumn session**

200860.1 People, Work and Society

And one elective

Spring session

200919.1 Innovation and Professional Practice

And one elective

Year 6**Autumn session**

200613.2 Negotiation, Bargaining and Advocacy

And one elective

Spring session

200740.4 Human Resource and Industrial Relations Strategy

Enterprise Engaged Unit:

200575.3 Processes and Evaluation in Employment Relations

Major - International Business**MT2025.1**

The global economy is becoming increasingly important for organisations seeking out new opportunities to expand their customer base and develop partnerships. Managers who are well versed in the needs of doing business internationally and who can exploit these opportunities will therefore play an integral role in any such corporation. Building on a solid foundation in domestic business education, including global sustainability, international business strategy, managing in a global environment, and international marketing, this major equips graduates with the detailed knowledge of the international dimension of business and the necessary understanding of the workings of that market system.

Location

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

Specialisation Structure

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

Core Units for this Major

200589.2	Export Strategy and Applications
200815.2	Globalisation and Sustainability
200626.2	International Business Strategy
200094.4	International Marketing
200591.2	Introduction to International Business
200863.1	Leadership and Entrepreneurship
200864.1	Managing in the Global Environment
200098.3	The Markets of Asia

Professional Units for Careers in Markets

Students undertaking the International Business major are advised to take the following four units to satisfy the requirements for their professional core:

200918.1	Design Thinking for Creativity
200590.2	International Business Project
200032.6	Statistics for Business
200915.2	The Service Enterprise

Recommended Sequence

Qualification for the award of Bachelor of Business with a major in International Business requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time

Year 1

Autumn session

200911.1	Enterprise Innovation and Markets
200912.1	Enterprise Leadership
200591.2	Introduction to International Business
200032.6	Statistics for Business

Spring session

200909.2	Enterprise Law
200910.1	Financing Enterprises
200864.1	Managing in the Global Environment

And one elective

Year 2

Autumn session

200915.2	The Service Enterprise
200815.2	Globalisation and Sustainability

And two electives

Spring session

200589.2	Export Strategy and Applications
200098.3	The Markets of Asia

And two electives

Year 3

Autumn session

200094.4	International Marketing
200918.1	Design Thinking for Creativity
200863.1	Leadership and Entrepreneurship

And one elective

Spring session

200626.2	International Business Strategy
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Enterprise Engaged Unit:

200590.2	International Business Project
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And two electives

Part-time

Year 1

Autumn session

200911.1	Enterprise Innovation and Markets
200909.2	Enterprise Law

Spring session

200910.1	Financing Enterprises
200912.1	Enterprise Leadership

Year 2

Autumn session

200591.2	Introduction to International Business
200032.6	Statistics for Business

Spring session

200864.1	Managing in the Global Environment
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And one elective

Year 3

Autumn session

200815.2	Globalisation and Sustainability
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And one elective

Spring session

200915.2	The Service Enterprise
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And one elective

Year 4

Autumn session

200589.2	Export Strategy and Applications
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And one elective

Spring session

200098.3	The Markets of Asia
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And one elective

Year 5

Autumn session

200094.4	International Marketing
200863.1	Leadership and Entrepreneurship

Spring session

200918.1	Design Thinking for Creativity
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And one elective

Year 6**Autumn session****200626.2** International Business Strategy

And one elective

Spring session

Enterprise Engaged Unit:

200590.2 International Business Project

And one elective

Major - Management**MT2026.1**

The Management major equips you with the expert skills to create a career as a management specialist. You will be prepared to succeed in a range of roles in contemporary private, public, and not-for-profit organisations in Australia and abroad. In this major you will develop strategic management knowledge to enable effective organisational decision making. The units in this major focus on organisational learning and development and behaviour, operations management, leadership and entrepreneurship, change and innovation, and policy. You can look forward to a range of careers in the broad and complex field of management.

Location

Campus	Mode
Bankstown Campus	Internal
Campbelltown Campus	Internal
Parramatta City Campus-Macquarie Street	Internal
Sydney City Campus	Internal
WSU Online	Multi Modal

Specialisation Structure

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

Core Units for this Major

200158.4	Business, Society and Policy
200862.1	Creating Change and Innovation
200863.1	Leadership and Entrepreneurship
200864.1	Managing in the Global Environment
200865.1	Managing Operations
200585.4	Organisational Behaviour
200157.4	Organisational Learning and Development
200587.2	Strategic Management

Professional Units for Careers in Management

Students undertaking the Management major are advised to take the following four units to satisfy the requirements for their professional core:

200568.3	Contemporary Management Issues
200919.1	Innovation and Professional Practice
301123.1	Management Analytics
200376.3	Managing and Developing Careers

Recommended Sequence

Qualification for the award of Bachelor of Business with a major in Management requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time**Year 1****Autumn session**

200910.1	Financing Enterprises
200912.1	Enterprise Leadership
200911.1	Enterprise Innovation and Markets
200585.4	Organisational Behaviour

Spring session

200909.2	Enterprise Law
301123.1	Management Analytics
200864.1	Managing in the Global Environment

And one elective

Year 2**Autumn session**

200158.4	Business, Society and Policy
200862.1	Creating Change and Innovation

And two electives

Spring session

200865.1	Managing Operations
200157.4	Organisational Learning and Development
200376.3	Managing and Developing Careers

And one elective

Year 3**Autumn session**

200863.1	Leadership and Entrepreneurship
200919.1	Innovation and Professional Practice

And two electives

Spring session

200587.2	Strategic Management
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Enterprise Engaged Unit:

200568.3	Contemporary Management Issues
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And two electives

Part-time**Year 1****Autumn session**

200910.1 Financing Enterprises
200912.1 Enterprise Leadership

Spring session

200909.2 Enterprise Law
301123.1 Management Analytics

Year 2**Autumn session**

200911.1 Enterprise Innovation and Markets
200585.4 Organisational Behaviour

Spring session

200864.1 Managing in the Global Environment

And one elective

Year 3**Autumn session**

200158.4 Business, Society and Policy

And one elective

Spring session

200865.1 Managing Operations

And one elective

Year 4**Autumn session**

200862.1 Creating Change and Innovation

And one elective

Spring session

200376.3 Managing and Developing Careers

And one elective

Year 5**Autumn session**

200863.1 Leadership and Entrepreneurship

And one elective

Spring session

200157.4 Organisational Learning and Development

And one elective

Year 6**Autumn session**

200919.1 Innovation and Professional Practice

And one elective

Spring session

200587.2 Strategic Management

Enterprise Engaged Unit:

200568.3 Contemporary Management Issues

Major - Marketing**MT2027.1**

Marketing focuses on the exchange process built around understanding and satisfying the needs and wants of customers. Often this is associated as doing business within a highly competitive business environment, yet marketing strategy is also important for government and not-for-profit organisations. This major introduces students to the core concepts of marketing theory, consumer behaviour, marketing communications, brand management, and marketing strategy. Graduates are equipped with the skills for marketing careers in a range of diverse industries across an international platform. This major satisfies the educational requirements for recognition as a Certified Practising Marketer and eligibility for membership of the Australian Marketing Institute.

Location

Campus	Mode
Bankstown Campus	Internal
Campbelltown Campus	Internal
Parramatta City Campus-Macquarie Street	Internal
Sydney City Campus	Internal
Uni of Economics Ho Chi Minh City	Internal
WSU Online	Multi Modal

Specialisation Structure

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

Core Units for this Major

200088.3 Brand and Product Management
200091.4 Business to Business Marketing
200084.2 Consumer Behaviour
200094.4 International Marketing
200086.3 Marketing Communications
200083.2 Marketing Principles
200592.2 Marketing Research
200087.3 Strategic Marketing Management

Professional Units for Careers in Markets

Students undertaking the Marketing major are advised to take the following four units to satisfy the requirements for their professional core:

200918.1	Design Thinking for Creativity
200096.3	Marketing Planning Project
200032.6	Statistics for Business
200915.2	The Service Enterprise

Recommended Sequence

Qualification for the award of Bachelor of Business with a major in Marketing requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time

Year 1

Autumn session

200911.1	Enterprise Innovation and Markets
200912.1	Enterprise Leadership
200083.2	Marketing Principles
200032.6	Statistics for Business

Spring session

200910.1	Financing Enterprises
200909.2	Enterprise Law
200084.2	Consumer Behaviour

And one elective

Year 2

Autumn session

200915.2	The Service Enterprise
200086.3	Marketing Communications

And two electives

Spring session

200088.3	Brand and Product Management
200592.2	Marketing Research

And two electives

Year 3

Autumn session

200091.4	Business to Business Marketing
200918.1	Design Thinking for Creativity
200094.4	International Marketing

And one elective

Spring session

200087.3	Strategic Marketing Management
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Enterprise Engaged Unit:

200096.3	Marketing Planning Project
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And two electives

Part-time

Year 1

Autumn session

200911.1	Enterprise Innovation and Markets
200909.2	Enterprise Law

Spring session

200083.2	Marketing Principles
200032.6	Statistics for Business

Year 2

Autumn session

200912.1	Enterprise Leadership
200084.2	Consumer Behaviour

Spring session

200910.1	Financing Enterprises
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And one elective

Year 3

Autumn session

200915.2	The Service Enterprise
-----------------	------------------------

And one elective

Spring session

200086.3	Marketing Communications
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And one elective

Year 4

Autumn session

200592.2	Marketing Research
-----------------	--------------------

And one elective

Spring session

200088.3	Brand and Product Management
-----------------	------------------------------

And one elective

Year 5

Autumn session

200091.4	Business to Business Marketing
-----------------	--------------------------------

And one elective

Spring session

200918.1	Design Thinking for Creativity
-----------------	--------------------------------

And one elective

Year 6**Autumn session**

- 200094.4** International Marketing
200087.3 Strategic Marketing Management

Spring session

Enterprise Engaged Unit:

- 200096.3** Marketing Planning Project

And one elective

Major - Hospitality Management**MT2035.1**

The Hospitality Management major is designed to prepare you for a career that goes beyond providing customer 'service' and focuses on providing customer 'experience'. This major equips you with the expert skills required to effectively and efficiently manage hotels, resorts, clubs, food-service enterprises or other service-oriented businesses. The Hospitality Management major units focus on hospitality operations management, planning and design of hospitality facilities, and business management, with opportunities to undertake industry-related projects. Hospitality Management leads to exciting and varied careers across a range of local and international sectors.

Location

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

Specialisation Structure

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

Core Units for this Major

- 200992.1** Food and Beverage Management
200995.1 Hospitality and Tourism in Practice
200989.1 Hospitality Places and Spaces
200994.1 Hospitality Profitability and Entrepreneurship
200991.1 Service Industry Analytics
200990.1 Special Event Management
200993.1 The Accommodation Industry
200988.1 The Business of Hospitality

Professional Units for Careers in Markets

Students undertaking the Hospitality Management major are advised to take the following four units to satisfy the requirements for their professional core:

- 200918.1** Design Thinking for Creativity
200561.3 Hospitality Management Applied Project
200032.6 Statistics for Business
200915.2 The Service Enterprise

Recommended Sequence

Qualification for the award of Bachelor of Business with a major in Hospitality Management requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time**Year 1****Autumn session**

- 200911.1** Enterprise Innovation and Markets
200912.1 Enterprise Leadership
200988.1 The Business of Hospitality
200032.6 Statistics for Business

Spring session

- 200909.2** Enterprise Law
200910.1 Financing Enterprises
200992.1 Food and Beverage Management

And one elective

Year 2**Autumn session**

- 200915.2** The Service Enterprise
200993.1 The Accommodation Industry
200990.1 Special Event Management

And one elective

Spring session

- 200989.1** Hospitality Places and Spaces
200918.1 Design Thinking for Creativity

And two electives

Year 3**Autumn session**

- 200991.1** Service Industry Analytics
200994.1 Hospitality Profitability and Entrepreneurship

And two electives

Spring session

- 200995.1** Hospitality and Tourism in Practice

Enterprise Engaged Unit:

- 200561.3** Hospitality Management Applied Project

And two electives

Part-time**Year 1****Autumn session**

- 200911.1** Enterprise Innovation and Markets
200909.2 Enterprise Law

Spring session

200910.1 Financing Enterprises
200032.6 Statistics for Business

Year 2**Autumn session**

200988.1 The Business of Hospitality
200912.1 Enterprise Leadership

Spring session

200992.1 Food and Beverage Management

And one elective

Year 3**Autumn session**

200915.2 The Service Enterprise
200993.1 The Accommodation Industry

Spring session

200994.1 Hospitality Profitability and Entrepreneurship

And one elective

Year 4**Autumn session**

200990.1 Special Event Management

And one elective

Spring session

200989.1 Hospitality Places and Spaces

And one elective

Year 5**Autumn session**

Two electives

Spring session

200918.1 Design Thinking for Creativity

And one elective

Year 6**Autumn session**

200991.1 Service Industry Analytics

And one elective

Spring session

200995.1 Hospitality and Tourism in Practice

Enterprise Engaged Unit:

200561.3 Hospitality Management Applied Project

Major - Sport Management**MT2036.1**

The Sport Management major is designed for people who seek careers in Australian and international Sport management. Specialist units provide students with a capacity to understand and function within the increasingly dedicated context in which sport is played, organised and managed. Students who complete this major will be equipped with the skills and knowledge to manage sport experiences pertaining to globalisation and emerging contemporary issues in sport. Graduates find career employment at all levels of government as well as within the private sector for both commercial and non-commercial organisations. Positions include project management of facilities and events, management and coordination of leisure, sport and civic event departments, sport marketing, player management and sport public relations, elite sport development, sport and leisure programming.

Location

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

Specialisation Structure

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

Core Units for this Major

200997.1	Developing Sport Professionals
201001.1	Our Sporting Future
200991.1	Service Industry Analytics
200990.1	Special Event Management
200999.1	Sport and Society
200996.1	Sport Entertainment
200998.1	Strategic Sport Leadership
201000.1	The World of Sport Business

Professional Units for Careers in Markets

Students undertaking the Sport Management major are advised to take the following four units to satisfy the requirements for their professional core:

200918.1	Design Thinking for Creativity
200751.2	Sport Management Applied Project
200032.6	Statistics for Business
200915.2	The Service Enterprise

Recommended Sequence

Qualification for the award of Bachelor of Business with a major in Sport Management requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time**Year 1****Autumn session**

200911.1	Enterprise Innovation and Markets
200912.1	Enterprise Leadership
201000.1	The World of Sport Business
200032.6	Statistics for Business

Spring session

200910.1	Financing Enterprises
200909.2	Enterprise Law
200996.1	Sport Entertainment

And one elective

Year 2**Autumn session**

200915.2	The Service Enterprise
200999.1	Sport and Society
200990.1	Special Event Management

And one elective

Spring session

200997.1	Developing Sport Professionals
200918.1	Design Thinking for Creativity

And two electives

Year 3**Autumn session**

200998.1	Strategic Sport Leadership
200991.1	Service Industry Analytics

And two electives

Spring session

201001.1	Our Sporting Future
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Enterprise Engaged Unit:

200751.2	Sport Management Applied Project
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And two electives

Part-time**Year 1****Autumn session**

200911.1	Enterprise Innovation and Markets
200909.2	Enterprise Law

Spring session

200910.1	Financing Enterprises
200912.1	Enterprise Leadership

Year 2**Autumn session**

201000.1	The World of Sport Business
200032.6	Statistics for Business

Spring session

200996.1	Sport Entertainment
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And one elective

Year 3**Autumn session**

200915.2	The Service Enterprise
200999.1	Sport and Society

Spring session

Two electives

Year 4**Autumn session**

200990.1	Special Event Management
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And one elective

Spring session

200918.1	Design Thinking for Creativity
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And one elective

Year 5**Autumn session**

200998.1	Strategic Sport Leadership
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And one elective

Spring session

200997.1	Developing Sport Professionals
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And one elective

Year 6**Autumn session**

200991.1	Service Industry Analytics
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And one elective

Spring session

201001.1	Our Sporting Future
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Enterprise Engaged Unit:

200751.2	Sport Management Applied Project
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Major - Zoology

MT3014.1

This major will provide students with a detailed understanding of the diversity of the animal kingdom. Students will develop a scientific understanding of how animals function and interact with their environment; from their ecology, behaviour and evolution; to the physiology and biochemistry of cells, tissues and major organ systems. On-campus animal facilities include those for reptiles, small marsupials and rodents, sheep and cattle, as well as over 1000ha of native, rural and aquatic habitats. This major will enable students to graduate with practical laboratory and fieldwork skills that will prepare you across a wide variety of disciplines in this field.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

All students must complete 60 credit points of study at Level 3 to meet course requirements. Students will need to select at least 10 credit points of elective study at Level 3 to meet this requirement.

Bachelor of Science

Qualification for the award of Bachelor of Science with a major in Zoology requires the successful completion of 240 credit points as per the recommended sequence below:

Full-time

Year 1

Autumn session

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry
300813.1	Wildlife Studies

Spring session

300816.1	Cell Biology
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A further specialisation core unit will be available by mid-year 2019

Choose one of

300831.3	Quantitative Thinking
300672.2	Mathematics 1A
200263.5	Biometry

And one elective

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Bachelor of Science (Pathway to Teaching Primary/Secondary)

Qualification for the Bachelor of Science (Pathway to Teaching Primary/Secondary) with a major in Zoology requires the successful completion of 240 credit points as per the recommended sequence for the Bachelor of Science with a major in Zoology, given above.

In addition, all students must complete the mandatory 40 credit point sub-major in Education Studies:

Students must meet this requirement by choosing the units from SM1100 as electives within their Bachelor of Science program.

Bachelor of Advanced Science

Qualification for the award of Bachelor of Advanced Science with a major in Zoology requires the successful completion of 240 credit points as per the recommended sequence below:

Full-time

Year 1

Autumn session

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry
300813.1	Wildlife Studies

Spring session

300816.1	Cell Biology
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A further specialisation core unit will be available by mid-year 2019

Choose one of

300831.3	Quantitative Thinking
300672.2	Mathematics 1A
200263.5	Biometry

And one elective

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Major - Animal Science

MT3015.1

Interactions between people and animals are increasing due to our reliance on animals for companionship and food production. This major will enable you to develop a deep understanding of these issues, through studies of animal behaviour, animal health and welfare, animal nutrition, animal production, animal reproduction, and human-animal interactions. You will have access to diverse on-campus animal facilities including reptiles, native mammals, sheep, cattle and deer and off-campus organisations such as wildlife parks, zoos and farms. A variety of exciting career

paths are available to graduates of this program, including international opportunities in the many fields of animal science.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Bachelor of Science

Qualification for the award of Bachelor of Science with a major in Animal Science requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time

Year 1

Autumn session

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry
300813.1	Wildlife Studies

Spring session

300816.1	Cell Biology
300801.1	Animal Science

Choose one of

300831.3	Quantitative Thinking
300672.2	Mathematics 1A
200263.5	Biometry

And one elective

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Bachelor of Science (Pathway to Teaching Primary/Secondary)

Qualification for the Bachelor of Science (Pathway to Teaching Primary/Secondary) with a major in Animal Science requires the successful completion of 240 credit points as per the recommended sequence for the Bachelor of Science with a major in Animal Science, given above.

In addition, all students must complete the mandatory 40 credit point sub-major in Education Studies:

Students must meet this requirement by choosing the units from SM1100 as electives within their Bachelor of Science program.

Bachelor of Advanced Science

Qualification for the award of Bachelor of Advanced Science with a major in Animal Science requires the successful completion of 240 credit points as per the recommended sequence below:

Full-time

Year 1

Autumn session

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry
300813.1	Wildlife Studies

Spring session

300816.1	Cell Biology
300801.1	Animal Science

Choose one of

300831.3	Quantitative Thinking
300672.2	Mathematics 1A
200263.5	Biometry

And one elective

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Major - Biology

MT3016.1

This major provides students with a broad knowledge base of biology from the molecular world to global ecosystem science with a focus on the sustainability of the natural world. The major allows students to use the learning beside a range of other diverse majors and is especially applicable to students who are considering teaching as a career. Students will have the opportunity to develop discipline knowledge alongside scientific laboratory and inquiry based skills. The major also includes developing strong communication and critical thinking skills, essential for the future role of biology graduates.

Location

Campus	Mode
Campbelltown Campus	Internal
Hawkesbury Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Bachelor of Science

Qualification for the award of Bachelor of Science with a major in Biology requires the successful completion of 240 credit points as per the recommended sequence below.

Full-Time

Year 1

Autumn session

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry
300361.3	Introduction to Human Biology

Spring session

300803.1	Essential Chemistry 2
300816.1	Cell Biology

Choose one of

300831.3	Quantitative Thinking
300672.2	Mathematics 1A
200263.5	Biometry

And one elective

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Bachelor of Science (Pathway to Teaching Primary/Secondary)

Qualification for the Bachelor of Science (Pathway to Teaching Primary/Secondary) with a major in Biology requires the successful completion of 240 credit points as per the recommended sequence for the Bachelor of Science with a major in Biology, given above.

In addition, all students must complete the mandatory 40 credit point sub-major in Education Studies:

Students must meet this requirement by choosing the units from SM1100 as electives within their Bachelor of Science program.

Bachelor of Advanced Science

Qualification for the award of Bachelor of Advanced Science with a major in Biology requires the successful completion of 240 credit points as per the recommended sequence below.

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

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry
300361.3	Introduction to Human Biology

Spring session

300803.1	Essential Chemistry 2
300816.1	Cell Biology

Choose one of

300831.3	Quantitative Thinking
300672.2	Mathematics 1A
200263.5	Biometry

And one elective

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Major - Ecology**MT3017.1**

Solving the world's environmental problems will require professionals who are trained in the sciences underlying ecological issues and who understand the wider human and social contexts of the challenges faced. The Ecology major will open up a wide range of career opportunities for those with environmental, conservation and ecological interests. Some of the key areas in this major include conservation biology, ecosystems, climate change science, biodiversity and adaptation. Using our unique Hawkesbury campus, students will have access to world class facilities and be taught by staff at the forefront of international research in Ecology.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure**Bachelor of Science**

Qualification for the award of Bachelor of Science with a major in Ecology requires the successful completion of 240 credit points as per the recommended sequence below:

Full-time**Year 1****Autumn session**

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry
300824.1	Management of Aquatic Environments

Spring session

300816.1	Cell Biology
300823.1	Soils

Choose one of

300831.3	Quantitative Thinking
300672.2	Mathematics 1A
200263.5	Biometry

And one elective

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Bachelor of Science (Pathway to Teaching Primary/Secondary)

Qualification for the Bachelor of Science (Pathway to Teaching Primary/Secondary) with a major in Ecology requires the successful completion of 240 credit points as

per the recommended sequence for the Bachelor of Science with a major in Ecology, given above.

In addition, all students must complete the mandatory 40 credit point sub-major in Education Studies:

Students must meet this requirement by choosing the units from SM1100 as electives within their Bachelor of Science program.

Bachelor of Advanced Science

Qualification for the award of Bachelor of Advanced Science with a major in Ecology requires the successful completion of 240 credit points as per the recommended sequence below:

Full-time

Year 1

Autumn session

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry
300824.1	Management of Aquatic Environments

Spring session

300816.1	Cell Biology
300823.1	Soils

Choose one of

300831.3	Quantitative Thinking
300672.2	Mathematics 1A
200263.5	Biometry

And one elective

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Major - Environmental Futures

MT3018.1

Solving the world's environmental problems will require professionals who are trained in the sciences underlying these issues and who understand the wider human and social contexts of the challenges faced. This major will combine scientific, social, economic, cultural and political elements of environmental challenges and critically examine processes and relationships that underpin environmental management and sustainability in urban, peri-urban and rural landscapes. Some of the key areas in this major include environmental planning, climate change science, understanding landscape, water and food security and environmental risk management including land and aquatic environments.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Qualification for the award of Bachelor of Science with a major in Environmental Futures requires the successful completion of 240 credit points as per the recommended sequence below:

Bachelor of Science

Full-time

Year 1

Autumn session

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry
300824.1	Management of Aquatic Environments

Spring session

A further specialisation core unit will be available by mid-year 2019

Choose one of

300831.3	Quantitative Thinking
300672.2	Mathematics 1A
200263.5	Biometry

Choose one of

300803.1	Essential Chemistry 2
300816.1	Cell Biology

And one elective

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Bachelor of Science (Pathway to Teaching Primary/Secondary)

Qualification for the Bachelor of Science (Pathway to Teaching Primary/Secondary) with a major in Environmental Futures requires the successful completion of 240 credit points as per the recommended sequence for the Bachelor of Science with a major in Environmental Future, given above.

In addition, all students must complete the mandatory 40 credit point sub-major in Education Studies:

Students must meet this requirement by choosing the units from SM1100 as electives within their Bachelor of Science program.

Bachelor of Advanced Science

Qualification for the award of Bachelor of Advanced Science with a major in Environmental Futures requires the successful completion of 240 credit points as per the recommended sequence below:

Full-time

Year 1

Autumn session

300811.1	Scientific Literacy
300802.2	Biodiversity

300808.2 Introductory Chemistry
300824.1 Management of Aquatic Environments

Spring session

A further specialisation core unit will be available by mid-year 2019

Choose one of

300831.3 Quantitative Thinking
300672.2 Mathematics 1A
200263.5 Biometry

Choose one of

300803.1 Essential Chemistry 2
300816.1 Cell Biology

And one elective

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Major - Microbiology

MT3019.1

Microorganisms impact on all aspects of our lives. A major in microbiology will equip students with the skills and knowledge of microbiology and molecular microbiology relevant to employment in research laboratories and industries including biotechnology companies, medical and environmental laboratories, food, wine and pharmaceutical companies, quality assurance and scientific sales. The major, which includes the study of bacteria, fungi, protists and viruses and their roles in medicine, industry and the environment, will also provide a foundation for research at Honours and postgraduate levels.

Location

Campus	Mode
Campbelltown Campus	Internal
Hawkesbury Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Bachelor of Science

Qualification for the award of Bachelor of Science with a major in Microbiology requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time

Year 1

Autumn session

300811.1 Scientific Literacy
300802.2 Biodiversity
300808.2 Introductory Chemistry

A further specialisation core unit will be available by mid-year 2019

Spring session

300803.1 Essential Chemistry 2
300816.1 Cell Biology

Choose one of

300831.3 Quantitative Thinking
300672.2 Mathematics 1A
200263.5 Biometry

And one elective

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Bachelor of Science (Pathway to Teaching Primary/Secondary)

Qualification for the Bachelor of Science (Pathway to Teaching Primary/Secondary) with a major in Microbiology requires the successful completion of 240 credit points as per the recommended sequence for the Bachelor of Science with a major in Microbiology, given above.

In addition, all students must complete the mandatory 40 credit point sub-major in Education Studies:

Students must meet this requirement by choosing the units from SM1100 as electives within their Bachelor of Science program.

Bachelor of Advanced Science

Qualification for the award of Bachelor of Advanced Science with a major in Microbiology requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time

Year 1

Autumn session

300811.1 Scientific Literacy
300802.2 Biodiversity
300808.2 Introductory Chemistry

A further specialisation core unit will be available by mid-year 2019

Spring session

300803.1 Essential Chemistry 2
300816.1 Cell Biology

Choose one of

300831.3 Quantitative Thinking
300672.2 Mathematics 1A
200263.5 Biometry

And one elective

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Major - Nutrition and Food Science

MT3021.1

There is more to healthy eating than you realise. This program will help you understand nutrition and the science behind food. A major in Nutrition and Food Science will prepare you for the future by developing the skills and knowledge needed to solve future challenges in nutrition and health, food safety and quality. Students will develop a strong foundation in the biological and chemical sciences needed to underpin studies. Additional majors in 'Nutrition and Physiology' or 'Food Science and Technology' will allow further specialisation. Career opportunities include nutritionist, nutritional scientist, consumer relations, food quality assurance, new food product development, and food technology secondary teaching. The program has strong industry and community links, well-equipped facilities including food processing pilot plant and modern kitchen facilities.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

All students must complete 60 credit points of study at Level 3 to meet course requirements. Students will need to select at least 10 credit points of elective study at Level 3 to meet this requirement.

Bachelor of Science

Qualification for the award of Bachelor of Science, with a major in Nutrition and Food Science requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time

Year 1

Autumn session

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry

And one elective

Spring session

300803.1	Essential Chemistry 2
300805.1	Food Science 1
300816.1	Cell Biology

Choose one of

300831.3	Quantitative Thinking
300672.2	Mathematics 1A
200263.5	Biometry

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Bachelor of Science (Pathway to Teaching Primary/Secondary)

Qualification for the Bachelor of Science (Pathway to Teaching Primary/Secondary) with a major in Nutrition and Food Science requires the successful completion of 240 credit points as per the recommended sequence for the Bachelor of Science with a major in Nutrition and Food Science, given above.

In addition, all students must complete the mandatory 40 credit point sub-major in Education Studies:

Students must meet this requirement by choosing the units from SM1100 as electives within their Bachelor of Science program.

Bachelor of Advanced Science

Qualification for the award of Bachelor of Advanced Science, with a major in Nutrition and Food Science requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time

Year 1

Autumn session

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry

And one elective

Spring session

300803.1	Essential Chemistry 2
300805.1	Food Science 1
300816.1	Cell Biology

Choose one of

300831.3	Quantitative Thinking
300672.2	Mathematics 1A
200263.5	Biometry

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Major - Forensic Science

MT3022.1

The Forensic Science Major is combined with the Crime Scene Investigation major, in a Bachelor of Science to provide students specialised expertise in forensic science including methods of forensic analysis, crime scene investigation, forensic photography, forensic investigation, crime and criminal justice and complex cases. Career opportunities include forensic scientists, crime scene investigators, private investigators and consultants, police officers, drug analysts, researchers and academics, and specialised forensic science practitioners. The main

employers of forensic scientists are State and Federal police services, State and Commonwealth Government Health Departments and analytical chemistry laboratories. Graduates will be versatile with a wide skills base with (depending on their choice of electives) potential for employment in analytical chemistry and microbiology, quality control and assurance, biochemistry and molecular biology, scientific research, education and the chemical industry.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Bachelor of Science

Qualification for the award of Bachelor of Science with a major in Forensic Science requires the successful completion of 240 credit points as per the recommended sequence below.

NOTE: This major must be undertaken with M4012 Crime Scene Investigation

Full-time

Year 1

Autumn session

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry
300806.1	Forensic Science

Spring session

200263.5	Biometry
300874.2	Digital Forensic Photography
300816.1	Cell Biology
301126.1	Concepts in Human Anatomy

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Bachelor of Advanced Science

Qualification for the award of Bachelor of Advanced Science with a major in Forensic Science requires the successful completion of 240 credit points as per the recommended sequence below.

NOTE: This major must be undertaken with M4012 Crime Scene Investigation

Full-time

Year 1

Autumn session

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry
300806.1	Forensic Science

Spring session

200263.5	Biometry
300874.2	Digital Forensic Photography
300816.1	Cell Biology
301126.1	Concepts in Human Anatomy

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Major - Forensic Chemistry

MT3023.1

This major gives a systematic introduction to the principles and practice of forensic chemistry. Forensic chemistry is the science underlying many forensic investigations from the analysis of toxic material to the detection and identification of illicit drug use. Forensic chemistry also forms the basis of a large portion of the techniques used at the crime scene.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

All students must complete 60 credit points of study at Level 3 to meet course requirements. Students will need to select at least 10 credit points of elective study at Level 3 to meet this requirement.

Bachelor of Science

Qualification for the award of Bachelor of Science with a major in Forensic Chemistry requires successful completion of 240 credit points as per the recommended sequence below:

Year 1

Autumn session

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry
300806.1	Forensic Science

Spring session

200263.5	Biometry
300803.1	Essential Chemistry 2
300816.1	Cell Biology

And one elective

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Bachelor of Science (Pathway to Teaching Primary/Secondary)

Qualification for the Bachelor of Science (Pathway to Teaching Primary/Secondary) with a major in Forensic Chemistry requires the successful completion of 240 credit

points as per the recommended sequence for the Bachelor of Science with a major in Forensic Chemistry, given above.

In addition, all students must complete the mandatory 40 credit point sub-major in Education Studies:

Students must meet this requirement by choosing the units from SM1100 as electives within their Bachelor of Science program.

Bachelor of Advanced Science

Qualification for the award of Bachelor of Advanced Science with a major in Forensic Chemistry requires successful completion of 240 credit points as per the recommended sequence below:

Year 1

Autumn session

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry
300806.1	Forensic Science

Spring session

200263.5	Biometry
300803.1	Essential Chemistry 2
300816.1	Cell Biology

And one elective

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Major - Forensic Biology

MT3024.1

This major gives a systematic introduction to the principles and practice of forensic biology. Forensic biology is the science underlying many forensic investigations, applying knowledge of human anatomy and cellular physiology to determine the reasons for crime scene events. Forensic biology also forms the basis of a large portion of the techniques used at the crime scene.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

All students must complete 60 credit points of study at Level 3 to meet course requirements. Students will need to select at least 10 credit points of elective study at Level 3 to meet this requirement.

Bachelor of Science

Qualification for the award of Bachelor of Science with a major in Forensic Biology requires successful completion of 240 credit points as per the recommended sequence below:

Year 1

Autumn session

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry
300806.1	Forensic Science

Spring session

200263.5	Biometry
300803.1	Essential Chemistry 2
300816.1	Cell Biology
301126.1	Concepts in Human Anatomy

Summer session

300935.2	Evidence and Crime Scene Management
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Note: Unit details for years 2 and 3 will be available by mid-year 2019

Bachelor of Science (Pathway to Teaching Primary/Secondary)

Qualification for the Bachelor of Science (Pathway to Teaching Primary/Secondary) with a major in Forensic Biology requires the successful completion of 240 credit points as per the recommended sequence for the Bachelor of Science with a major in Forensic Biology, given above.

In addition, all students must complete the mandatory 40 credit point sub-major in Education Studies:

Students must meet this requirement by choosing the units from SM1100 as electives within their Bachelor of Science program.

Bachelor of Advanced Science

Qualification for the award of Bachelor of Advanced Science with a major in Forensic Biology requires successful completion of 240 credit points as per the recommended sequence below:

Year 1

Autumn session

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry
300806.1	Forensic Science

Spring session

200263.5	Biometry
300803.1	Essential Chemistry 2
300816.1	Cell Biology
301126.1	Concepts in Human Anatomy

Summer session

300935.2	Evidence and Crime Scene Management
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Note: Unit details for years 2 and 3 will be available by mid-year 2019

Major - Mathematics

MT3025.1

This major will allow students to develop their analytical skills to model and solve real world problems such as climate change and provides opportunity for a range of careers in government and commercial institutions. In addition, students have the chance to further diversify their learning by combining this major with a range of other majors and sub majors.

Location

Campus	Mode
Campbelltown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

All students must complete 60 credit points of study at Level 3 to meet course requirements. Students choosing this specialisation may need to select at least 10 credit points of elective study at Level 3 to meet this requirement.

Bachelor of Science

Qualification for the award of Bachelor of Science with a major in Mathematics requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time

Year 1

Autumn

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry
300672.2	Mathematics 1A

Spring

200263.5	Biometry
300673.2	Mathematics 1B

Choose one of

300803.1	Essential Chemistry 2
300816.1	Cell Biology

And choose one elective

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Bachelor of Science (Pathway to Teaching Primary/Secondary)

Qualification for the award of Bachelor of Science (Pathway to Teaching Primary/Secondary) with a major in Mathematics requires the successful completion of 240

credit points as per the recommended sequence for the Bachelor of Science with a major in Mathematics, given above.

In addition, all students must complete the mandatory 40 credit point sub-major in Education Studies:

Students must meet this requirement by choosing the units from SM1100 as electives within their Bachelor of Science program.

Bachelor of Advanced Science

Qualification for the award of Bachelor of Advanced Science with a major in Mathematics requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time

Year 1

Autumn

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry
300672.2	Mathematics 1A

Spring

200263.5	Biometry
300673.2	Mathematics 1B

Choose one of

300803.1	Essential Chemistry 2
300816.1	Cell Biology

And choose one elective

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Major - Applied Physics

MT3026.1

This major provides a deep knowledge of physics and its applications. While also developing a grounding in mathematics and strong computing knowledge, the physics major assures understanding of the concepts, tools and techniques of physics including the interfaces where physics contributes to other scientific disciplines, and the use of physics in wider intellectual and social contexts.

Location

Campus	Mode
Campbelltown Campus	Internal

Specialisation Structure

Bachelor of Science

Qualification for the award of Bachelor of Science with a major in Applied Physics requires the successful

completion of 240 credit points as per the recommended sequence below.

Full-time

Year 1

Autumn

300672.2	Mathematics 1A
300802.2	Biodiversity
300808.2	Introductory Chemistry
300828.1	Physics 1

Spring

300811.1	Scientific Literacy
300829.1	Physics 2
300673.2	Mathematics 1B

Choose one of

300803.1	Essential Chemistry 2
300816.1	Cell Biology

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Bachelor of Science (Pathway to Teaching Primary/Secondary)

Qualification for the award of Bachelor of Science (Pathway to Teaching Primary/Secondary) with a major in Applied Physics requires the successful completion of 240 credit points as per the recommended sequence for the Bachelor of Science with a major in Applied Physics, given above.

In addition, all students must complete the mandatory 40 credit point sub-major in Education Studies:

Students must meet this requirement by choosing the units from SM1100 as electives within their Bachelor of Science program.

Bachelor of Advanced Science

Qualification for the award of Bachelor of Advanced Science with a major in Applied Physics requires the successful completion of 240 credit points as per the recommended sequence below:

Full-time

Year 1

Autumn

300672.2	Mathematics 1A
300802.2	Biodiversity
300808.2	Introductory Chemistry
300828.1	Physics 1

Spring

300811.1	Scientific Literacy
300829.1	Physics 2
300673.2	Mathematics 1B

Choose one of

300803.1	Essential Chemistry 2
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300816.1 Cell Biology

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Major - Chemistry

MT3027.1

A Bachelor of Science with a chemistry major will prepare you to take part in a process of inquiry, by both contributing to it and by using scientific knowledge to solve current problems. The Chemistry program provides a strong background in the key topic areas of contemporary chemistry, including aspects of chemical theory in analytical, inorganic, organic and physical chemistry, with a strong emphasis on practical laboratory skills, and applications in contemporary research, industry and the environment. A research project is available to students in the final year of the degree preparing you for a professional career in a wide range of chemistry based industries. The degree allows for the completion of a second major or additional sub-majors and electives to diversify learning for the careers of the future.

Location

Campus	Mode
Campbelltown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Bachelor of Science

Qualification for the award of Bachelor of Science with a major in Chemistry requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time

Year 1

Autumn session

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry

And one elective

Spring session

300803.1	Essential Chemistry 2
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Choose one of

300672.2	Mathematics 1A
300831.3	Quantitative Thinking

And two electives

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Bachelor of Science (Pathway to Teaching Primary/Secondary)

Qualification for the Bachelor of Science (Pathway to Teaching Primary/Secondary) with a major in Chemistry requires the successful completion of 240 credit points as per the recommended sequence for the Bachelor of Science with a major in Chemistry, given above.

In addition, all students must complete the mandatory 40 credit point sub-major in Education Studies:

Students must meet this requirement by choosing the units from SM1100 as electives within their Bachelor of Science program.

Bachelor of Advanced Science

Qualification for the award of Bachelor of Advanced Science with a major in Chemistry requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time

Year 1

Autumn session

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry

And one elective

Spring session

300803.1	Essential Chemistry 2
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Choose one of

300672.2	Mathematics 1A
300831.3	Quantitative Thinking

And two electives

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Major - Anatomy and Physiology

MT3028.1

This degree will provide you with the opportunity to learn about the basic sciences underpinning human health, wellbeing and its application to human disease. The anatomy and physiology major focuses on the anatomy and physiology of the human body in relation to health and disease. The degree also allows for enrolment in a variety of sub-majors (with choices such as pharmacology, cell biology, microbiology, or immunology) or free electives, so students can design their own learning journey.

Location

Campus	Mode
Campbelltown Campus	Internal
Hawkesbury Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

All students must complete 60 credit points of study at Level 3 to meet course requirements. Students will need to select at least 10 credit points of elective study at Level 3 to meet this requirement.

Qualification for the award of Bachelor of Medical Science with a major in Anatomy and Physiology requires the successful completion of 240 credit points as per the recommended sequence below:

Bachelor of Medical Science

Full-time

Year 1

Autumn session

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry

A further specialisation core unit will be available by mid-year 2019

Spring session

300816.1	Cell Biology
301126.1	Concepts in Human Anatomy

Choose one of

300672.2	Mathematics 1A
300831.3	Quantitative Thinking

And one elective

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Bachelor of Advanced Medical Science

Qualification for the award of Bachelor of Advanced Medical Science with a major in Anatomy and Physiology requires the successful completion of 240 credit points as per the recommended sequence below:

Full-time

Year 1

Autumn session

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry

A further specialisation core unit will be available by mid-year 2019

Spring session

300816.1 Cell Biology
301126.1 Concepts in Human Anatomy

Choose one of

300672.2 Mathematics 1A
300831.3 Quantitative Thinking

And one elective

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Major - Medicinal Chemistry**MT3029.1**

This degree will provide you with the opportunity to learn about the basic sciences underpinning human health, wellbeing and its application to human disease. Medicinal chemistry lies at the interface of chemistry, biology and medicine. This major will give you a solid background in physiology, anatomy and pharmacology and will show you how chemistry and chemical design can lead to therapeutics and diagnostics that improve human health. You will learn how the natural world is a rich source of novel compounds and drug leads. A Bachelor of Medical Science (Medicinal Chemistry) degree will equip you with the multidisciplinary tools to succeed in careers as diverse as pharmaceutical development, biotechnology and quality assurance.

Location

Campus	Mode
Campbelltown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

All students must complete 60 credit points of study at Level 3 to meet course requirements. Students will need to select at least 10 credit points of elective study at Level 3 to meet this requirement.

Bachelor of Medical Science

Qualification for the award of Bachelor of Medical Science with a major in Medicinal Chemistry requires the successful completion of 240 credit points as per the recommended sequence below:

Full-time**Year 1****Autumn session**

300811.1 Scientific Literacy
300802.2 Biodiversity
300808.2 Introductory Chemistry

A further specialisation core unit will be available by mid-year 2019

Spring session

301126.1 Concepts in Human Anatomy

Choose one of

300803.1 Essential Chemistry 2
300816.1 Cell Biology

Choose one of

300831.3 Quantitative Thinking
300672.2 Mathematics 1A

And one elective

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Bachelor of Advanced Medical Science

Qualification for the award of Bachelor of Advanced Medical Science with a major in Medicinal Chemistry requires the successful completion of 240 credit points as per the recommended sequence below:

Full-time**Year 1****Autumn session**

300811.1 Scientific Literacy
300802.2 Biodiversity
300808.2 Introductory Chemistry

A further specialisation core unit will be available by mid-year 2019

Spring session

301126.1 Concepts in Human Anatomy

Choose one of

300803.1 Essential Chemistry 2
300816.1 Cell Biology

Choose one of

300831.3 Quantitative Thinking
300672.2 Mathematics 1A

And one elective

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Major - Biomedical Science**MT3030.1**

Biomedical science is a broad field that aims to understand the biology that underpins human and animal health and disease. In this major you will study the structure and function of biological organisms from the molecular to the systemic. The coursework in this major will give you an integrated foundation in physiology and anatomy, along with biochemistry, cell biology and genetics. This major will

equip you with core discipline knowledge from which you can embark on unlimited career choices in or outside of a laboratory - from hospital pathology to biomedical engineering, medical technology and beyond.

Location

Campus	Mode
Campbelltown Campus	Internal
Hawkesbury Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

All students must complete 60 credit points of study at Level 3 to meet course requirements. Students will need to select at least 10 credit points of elective study at Level 3 to meet this requirement.

Bachelor of Medical Science

Qualification for the award of Bachelor of Medical Science with a major in Biomedical Science requires the successful completion of 240 credit points as per the recommended sequence below:

Full-time

Year 1

Autumn session

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry

A further specialisation core unit will be available by mid-year 2019

Spring session

300816.1	Cell Biology
301126.1	Concepts in Human Anatomy

Choose one of

300672.2	Mathematics 1A
300831.3	Quantitative Thinking

And one elective

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Bachelor of Advanced Medical Science

Qualification for the award of Bachelor of Advanced Medical Science with a major in Biomedical Science requires the successful completion of 240 credit points as per the recommended sequence below:

Full-time

Year 1

Autumn session

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry

A further specialisation core unit will be available by mid-year 2019

Spring session

300816.1	Cell Biology
301126.1	Concepts in Human Anatomy

Choose one of

300672.2	Mathematics 1A
300831.3	Quantitative Thinking

And one elective

Note: Unit details for years 2 and 3 will be available by mid-year 2019

Major - Environmental Health

MT3031.1

The air we breathe, the water we drink, the food we eat, and the places we live, work and play all have major impacts on our health and well-being. The testamur major Environmental Health, when combined with the major Environmental Futures in a Bachelor of Science, will equip you to explore the diverse range of natural and built-environment challenges that confront us, from the mitigation of human health impacts of global climate change through to the more localised issues of air and water quality, waste management, food security, environmental noise and healthy communities. The major areas of study addressed within the major include air pollution; community studies; emergency management; environmental regulation and policy; environmental monitoring; environmental planning; environmental protection; epidemiology; food safety; noise, occupational environment; risk assessment; sustainable environmental management; toxicology; urban development and water pollution.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Qualification for the award of Bachelor of Science with a major in Environmental Health requires the successful completion of 240 credit points as per the recommended sequence below:

Full-time

Year 1

Autumn session

300811.1	Scientific Literacy
300802.2	Biodiversity
300808.2	Introductory Chemistry

And one elective

Spring session**300814.1** Water Quality Assessment and Management

Choose one of

300831.3 Quantitative Thinking
300672.2 Mathematics 1A
200263.5 Biometry

Choose one of

300803.1 Essential Chemistry 2
300816.1 Cell Biology

And one elective

Note: Unit details for years 2 and 3 will be available by mid-year 2019**Major - Data Science****MT3032.1**

The major in Data Science equips its graduates with the skills and knowledge for designing experimental studies, building and fitting models for analysis, visualisation, estimation and prediction, and storage and retrieval of big data. These skills are essential for the analysis of customer transactions and behaviour, scientific investigations, financial trends, and online behaviour. Our graduates will have the knowledge and skills required to operate effectively in a data-driven world.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure**Bachelor of Science**

Qualification for the award of Bachelor of Science with a major in Data Science requires the successful completion of 240 credit points as per the recommended sequence below.

Full-time**Year 1****Autumn**

300672.2 Mathematics 1A
300802.2 Biodiversity
300808.2 Introductory Chemistry
301108.1 Thinking About Data

Spring

300811.1 Scientific Literacy
300580.3 Programming Fundamentals

Choose one of

300803.1 Essential Chemistry 2**300816.1** Cell Biology

And choose one elective

Note: Unit details for years 2 and 3 will be available by mid-year 2019**Bachelor of Science (Pathway to Teaching Primary/Secondary)**

Qualification for the award of Bachelor of Science (Pathway to Teaching Primary/Secondary) with a major in Data Science requires the successful completion of 240 credit points as per the recommended sequence for the Bachelor of Science with a major in Mathematics, given above.

In addition, all students must complete the mandatory 40 credit point sub-major in Education Studies:

Students must meet this requirement by choosing the units from SM1100 as electives within their Bachelor of Science program.

Sub-major - Education Studies**SM1067.1**

The Education Studies sub-major comprises a foundation pool of units which addresses key issues in contemporary educational thinking and practice. Education has a key role to play in bridging the gap between social advantage and disadvantage, in transforming the lives of individuals and their families and building capacity within communities.

Location

Campus	Mode
Bankstown Campus	Internal
Penrith Campus	Internal

Specialisation Structure

Students must complete 40 credit points from the following units

101263.1 Education and Transformation
101663.2 Education for Sustainability
101661.2 Education in a Cosmopolitan Society
101874.3 Experiential Learning in Communities (ELC)
101259.3 Learning and Creativity
101662.1 Young People, Their Futures and Education

Sub-major - Education Studies**SM1100.1**

The Education Studies sub-major comprises units from the Learning in Context pool. These units are broadly structured for students to investigate and critique contemporary education issues and are available to all undergraduate students and compulsory for students in the Bachelor of Arts (Pathway to Teaching Secondary) and Bachelor of Science (Pathway to Teaching Secondary).

Location

Campus	Mode
Bankstown Campus	Internal
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must complete 40 credit points from the following units

Learning in Context Pool**Level 1 units**

101751.2	Contextualising Indigenous Australia (Day Mode)
102206.1	Experience-based Outdoor Education

If choosing a language unit, please choose only one of the following:

100056.2	Chinese 101
100057.2	Chinese 102
100085.2	Japanese 101
100086.3	Japanese 102

Level 2 units

102048.1	Contemporary Childhoods
101263.1	Education and Transformation
101663.2	Education for Sustainability
101874.3	Experiential Learning in Communities (ELC)
101259.3	Learning and Creativity

Level 3 units

102210.1	Australia-Asia Education
101661.2	Education in a Cosmopolitan Society
101623.1	Ethical Futures
102207.1	The Brain and Learning

Sub-major - Food Technology - Secondary Teaching**SM3038.1**

The food technology sub-major brings together food science and nutrition with education studies to meet the graduate requirements for teaching in food technology as a second teaching area. This sub-major includes specialised studies in food processing, new food product development, nutrition, contemporary food issues, and the food marketplace relevant to the Australian food industry. The program has strong industry links, well-equipped facilities including food processing pilot plant and modern kitchen facilities.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete four units as follows

Year 1**Spring session**

300805.1	Food Science 1
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Year 2**Autumn session**

300842.2	Food Science 2
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Choose two of

Year 2**Autumn session**

300933.1	Nutrition and Health 1
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Year 2**Spring session**

300879.1	Experimental Foods
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Year 3**Autumn session**

300871.1	Culinary Science
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Year 3**Spring session**

300915.1	Food Product Development
300904.1	Advanced Food Science and Technology

Sub-major - Biochemistry and Molecular Biology**SM3041.1**

This sub-major will develop knowledge and skills in biochemistry and molecular biology important in industrial or research-based employment (biotech companies, pathology, quality assurance, university and hospital labs and scientific sales, government policy analysis). Students will read, critique and evaluate research so that they develop independent learning skills and the confidence needed to deal with the rapid expansion of content in this area of Biology.

Location

Campus	Mode
Campbelltown Campus	Internal
Hawkesbury Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

The Biochemistry and Molecular Biology sub-major is available to all undergraduate students except those enrolled in the Biochemistry and Molecular Biology major. Students must complete four units as follows

Level 2

300936.1	Functional Proteins and Genes
300848.1	Metabolism
300817.1	Molecular Biology

Level 3

Choose one of

300820.1	Genes, Genomics and Human Health
300927.2	Molecular Medicine

Sub-major - Conservation Biology**SM3042.1**

Conservation biology has emerged as a field of study from a synthesis of the ecological, demographic, genetic and societal risks faced by small natural populations. This sub-major equips students with skills in fundamental biology, in the ecology of populations and communities, in population genetics and in the legal conservation framework to enable them to work in this area.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

The Conservation Biology sub-major is available to all undergraduate students except those enrolled in the Conservation Biology major. Students must complete four units as follows

Level 1

Choose one of

300802.2	Biodiversity
300813.1	Wildlife Studies

Level 2

300839.1	Ecology
300845.1	Genetics

Level 3

300855.1	Conservation Biology
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Sub-major - Microbiology**SM3044.1**

Microorganisms impact on all aspects of our lives. A microbiology sub-major will equip students with the skills and knowledge of microbiology and molecular microbiology relevant to employment in research laboratories and industries including biotechnology companies, medical and environmental laboratories, food, wine and pharmaceutical companies, quality assurance and scientific sales.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

The Microbiology sub-major is available to all undergraduate students except those enrolled in the Microbiology major.

Students must complete four units as follows

Level 2

300833.1	Microbiology 1
300896.1	Microbiology 2

Level 3

300866.1	Analytical Microbiology
300826.1	Medical Microbiology

Sub-major - Zoology**SM3045.1**

This sub-major will allow students to develop scientific understanding of how animals function and interact with their environment; from their ecology and evolution; to physiology and biochemistry of tissues and major organ systems, as well as down to structure and function of biomolecules and cells.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

The Zoology sub-major is available to all undergraduate students except those enrolled in the Zoology Major.

Students must complete four units as follows

Level 1**300813.1** Wildlife Studies**Level 2****300834.1** Animal Health and Welfare**Level 3**

Choose two of

300878.1 Animal Behaviour
300855.1 Conservation Biology
300918.3 Invertebrate Biology
300861.1 Vertebrate Biodiversity

Sub-major - Sustainable Environmental Management**SM3046.1**

Solution to environmental problems requires both a technical/scientific 'fix', and an agreed social implementation, or management 'fix'. This sub-major covers the essentials of environmental management as an academic discipline, giving students knowledge and skills in the social, legislative and planning frameworks within which environmental practitioners must work to implement solutions to environmental problems.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

The Sustainable Environmental Management sub-major is available to all undergraduate students except those enrolled in the Environmental Management major.

Students must complete four units as follows

Level 2

300840.1 Environmental Planning and Climate Change
300841.1 Environmental Regulation and Policy

Level 3

300858.1 Environmental Risk Management
300860.1 Urban Environment

Sub-major - Climate Change**SM3048.1**

One of the major problems society faces is how to move to an economy and way of life that is sustainable for our planet. This submajor equips students with the skills to address the scientific issues behind global climate change;

what makes it happen, and how we can reduce or mitigate its impacts on the earth and its biota.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

The Climate Change sub-major is available to all undergraduate students except those enrolled in the Climate Change major.

Students must complete four units as follows

Level 2

300837.1 Climate Change Science
300840.1 Environmental Planning and Climate Change

Level 3

300909.1 Biological Adaptation to Climate Change
300856.1 Ecosystem Carbon Accounting

Sub-major - Immunology and Cell Biology**SM3049.1**

This sub-major will equip students with knowledge and skills in immunology, cell and molecular biology to allow students to enter industrial or research-based employment in this area (biotech companies, pathology, quality assurance, university and hospital labs and scientific sales, government policy analysis). As this area has expanding knowledge and technologies, outcomes also include the ability to read, critique and evaluate emerging research with the view to becoming a life-long learner in the field.

Location

Campus	Mode
Campbelltown Campus	Internal
Hawkesbury Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must complete four units as follows

Level 2

300847.2 Immunology
300817.1 Molecular Biology

Level 3

300850.1 Advanced Cell Biology
300905.1 Advanced Immunology

Sub-major - Physics

SM3050.1

The physics sub-major is designed to provide the basic curriculum for students who have an interest in physics while intending to pursue a degree in some other field. The sub-major offers units that practicing physicists would normally be expected to have studied. Consequently, those who already have in mind a career in teaching, research, industry or education will graduate with a basic, solid preparation in Physics.

Location

Campus	Mode
Campbelltown Campus	Internal

Specialisation Structure

The Physics sub-major is available to all undergraduate students. These are core units from 3674 Bachelor of Medical Science (Nanotechnology).

Students must complete four units as follows

Level 1

300828.1	Physics 1
300829.1	Physics 2

Level 2

300930.1	Classical Physics and Advanced Technologies
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Level 3

300923.1	Quantum Physics
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Sub-major - Aquatic Environments

SM3062.1

Aquatic and marine environments play vital roles in providing food, water, recreation and other ecosystem services to human society, as well as providing habitat for important species that make up global biodiversity. This sub-major will equip students with the background knowledge and training to work in aquatic and marine environments, assess water quality to learn skills in inquiry and problem solving and understand legislation on water, so that they can contribute beneficially to management and/or conservation of waterways and oceans and the biodiversity within them.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

The Aquatic Environments sub-major is available to all Western Sydney University undergraduate students except those enrolled in the Aquatic Biology major. Students must complete the following four units

Level 1

300824.1	Management of Aquatic Environments
300814.1	Water Quality Assessment and Management

Level 3

300929.1	Aquatic Ecology
300978.1	Marine and Aquatic Ecology
300870.1	Water in the Landscape

Sub-major - Zoology

SM3063.1

This sub-major will allow students to develop scientific understanding of how animals function and interact with their environment; from their ecology and evolution; to physiology and biochemistry of tissues and major organ systems, as well as structure and function of biomolecules and cells.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete four units as follows

Level 1

300813.1	Wildlife Studies
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Level 2

300980.1	Principles of Evolution
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Level 3

Choose two of

300878.1	Animal Behaviour
300855.1	Conservation Biology
300918.3	Invertebrate Biology
300861.1	Vertebrate Biodiversity

Sub-major - Environmental Management

SM3079.1

Solution to environmental problems requires both a technical/scientific 'fix', and an agreed social implementation, or management 'fix'. This sub-major covers environmental management as an academic

discipline, giving students knowledge and skills in the social, legislative and planning frameworks within which environmental practitioners must work to implement solutions to environmental problems.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete four units as follows

Level 2

Choose two of the following

300840.1	Environmental Planning and Climate Change
300841.1	Environmental Regulation and Policy
101878.2	Indigenous Landscapes
300875.1	Landuse and the Environment

Level 3

Choose two of the following

300858.1	Environmental Risk Management
300860.1	Urban Environment

Sub-major - Critical Thinking

SM3083.1

The Academy's Critical Thinking sub-major offers high-achieving students a specialised learning experience focussing on developing tomorrow's leaders through carefully tailored academic units. The twenty-first century presents many challenges for tomorrow's leaders, such as complex social, environmental and economic pressures. In preparation for these challenges, students will develop high-level critical thinking, entrepreneurship, research and innovative problem-solving skills. Students completing this sub-major will be empowered to think from multiple perspectives, work in a cross-disciplinary environment, critically analyse challenges, see and create opportunities, and bring creative, innovative, empathetic and ethically-centered problem-solving skills to their future careers.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must have a minimum GPA of 5 to enrol in this sub-major.

1H session

301071.2	Introduction to Critical Thinking
301069.2	Research Stories

2H session

301072.3	Innovation Lab
301070.2	Logic, Rhetoric and Argumentation

Sub-major - Statistics

SM3089.1

This sub-major covers topics in statistics from an introductory level to exploring complex statistical techniques that are used to analyse and interpret data generated in many disciplines. Students considering undertaking further postgraduate research studies in any discipline should consider taking this sub-major as part of their undergraduate degree. This sub-major is open to all undergraduate students.

Location

Campus	Mode
Campbelltown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

The Statistics sub-major is available to all Western Sydney University undergraduate students except those enrolled in the 3679 Bachelor of Science (Mathematical Science) course.

Student must complete 40 credit points as follows

Choose one of

200263.5	Biometry
300700.6	Statistical Decision Making
200032.6	Statistics for Business

Choose three of

301035.1	Environmental Informatics
301033.1	Introduction to Data Science
301032.1	Making Sense of Data
301034.1	Predictive Modelling

GRADUATE RESEARCH SCHOOL

Bachelor of Research Studies (Planning)

8119.1

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year for this course is 1H 2019 or later.

The Master of Research (Planning) is an internationally recognised qualification that provides graduates of this degree with the professional and scholarly education to take a leadership role in urban and regional planning and policy development.

The first year combines coursework training in comprehensive research methodology with an advanced specialisation in urban and regional planning. In the second-year students will undertake a supervised year of higher degree research and produce a Master's thesis. The second year also includes a series of workshops and seminars designed to enhance students' research and professional capabilities.

For domestic students, this program attracts Australian Government funding, packaged as a Bachelor of Research Studies (Planning)/Master of Research (Planning) to meet regulations.

In Year 1, domestic students are enrolled in the Bachelor of Research Studies (Planning) as a Commonwealth supported student and are liable for student contribution amounts which can be deferred through the HECS-HELP scheme if they are eligible. In Year 2, domestic students are enrolled in the Master of Research (Planning).

Further information about the Master of Research (Planning) can be found on the Future Students Research Studies pages.

Study Mode

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

Location

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal
Parramatta City Campus- Macquarie Street	Full Time	Internal
Parramatta City Campus- Macquarie Street	Part Time	Internal

Admission

Admission is determined by the following criteria being met

- A Bachelor's degree or a Master's degree in a cognate discipline such as Planning, Architecture, Engineering, property, Urban Studies, landscape Architecture, Geography, Environmental Management.

- Achievement of a threshold Admission Average Mark (AAM) equal to or above the minimum of 65.
- Demonstrated professional experience in a related discipline to be considered at the discretion of the Dean, Graduate Studies for applicants whose most recent qualification is 5+ years old and
- A statement that outlines a tentative research area.

Additionally for International students and for domestic students who have a qualification in a medium other than English, an English proficiency requirement of IELTS 6.5 overall (minimum 6.0 in each band) or equivalent.

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

Course Structure

Year 1 of this course will also be studied by International students enrolled in 8120 - Master of Research (Planning).

After completion of Year 1, domestic students will be transferred to 8120 - Master of Research (Planning).

Qualification for the award of Master of Research (Planning) requires the successful completion of 160 credit points. All students will complete 80 credit points of coursework units and 80 credit points of higher degree by research.

All students must enrol in and complete the 80 credit points of prescribed core units.

Core units

101636.2	Developing Sustainable Places
101315.3	Financing Cities in the Global Economy
101633.2	Managing Cities: History and Theory
101634.2	Planning and Environmental Regulation
800166.1	Research Design 1: Theories of Enquiry
800169.1	Research Design 2: Practices of Research
800167.1	Research Literacies
101314.3	Urban Management Practice: Governance and Power in the City

Recommended Sequence

Students must undertake the following sequence of units according to whether they begin the course at the start or middle of the year

Full-time

Start Year

1H session

800166.1	Research Design 1: Theories of Enquiry
800167.1	Research Literacies
101633.2	Managing Cities: History and Theory
101634.2	Planning and Environmental Regulation

2H session

800169.1	Research Design 2: Practices of Research
101315.3	Financing Cities in the Global Economy
101636.2	Developing Sustainable Places

101314.3 Urban Management Practice: Governance and Power in the City

Mid Year

2H session

800166.1 Research Design 1: Theories of Enquiry
101315.3 Financing Cities in the Global Economy
101636.2 Developing Sustainable Places
101314.3 Urban Management Practice: Governance and Power in the City

1H session

800169.1 Research Design 2: Practices of Research
800167.1 Research Literacies
101633.2 Managing Cities: History and Theory
101634.2 Planning and Environmental Regulation

Part-time

Start Year

Year 1

1H session

800166.1 Research Design 1: Theories of Enquiry
101633.2 Managing Cities: History and Theory

2H session

101315.3 Financing Cities in the Global Economy
101636.2 Developing Sustainable Places

Year 2

1H session

800167.1 Research Literacies
101634.2 Planning and Environmental Regulation

2H session

800169.1 Research Design 2: Practices of Research
101314.3 Urban Management Practice: Governance and Power in the City

Mid Year

Year 1

2H session

800166.1 Research Design 1: Theories of Enquiry
101636.2 Developing Sustainable Places

1H session

800167.1 Research Literacies
101633.2 Managing Cities: History and Theory

Year 2

2H session

101315.3 Financing Cities in the Global Economy

101314.3 Urban Management Practice: Governance and Power in the City

1H session

800169.1 Research Design 2: Practices of Research
101634.2 Planning and Environmental Regulation

Students may exit with the Bachelor of Research Studies (exit only) after Year 1 and the successful completion of 80 credit points, with advanced standing of 160 credit points from their previous undergraduate qualification being granted.

Bachelor of Research Studies (exit only)

8087.2

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year for this course is 2H 2017 or later.

This course is an exit point from course 8083 Bachelor of Research Studies. Students may exit with this award after Year 1 and the successful completion of 80 credit points, with advanced standing of 160 credit points from their previous undergraduate qualification being granted.

Study Mode

One year full-time.

Location

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

Admission

This course is an exit point only from 8083 Bachelor of Research Studies.

Please refer to the course entry for 8083 Bachelor of Research Studies for details of the course structure.

Bachelor of Research Studies

8083.2

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

applies to students whose commencement year for this course is 2H 2017 or later.

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

The Master of Research is an internationally recognised qualification which will allow students to be globally mobile in advancing their research education, employment opportunities and pathways to further study. It is designed to increase students' preparedness for PhD studies and ultimately for research-orientated careers.

The first year is comprised of advanced Bachelor level studies exposing students to comprehensive research methodology and advanced disciplinary coursework. Students will develop a research proposal, improve their academic literacy skills and engage with issues associated with research ethics and integrity. In the second year students will undertake a supervised year of higher degree research and produce a Masters thesis. The second year also includes a series of workshops and seminars designed to enhance students' research and professional capabilities.

For domestic students, this program attracts Australian Government funding, packaged as a Bachelor of Research Studies/Master of Research to meet regulations.

In Year 1, domestic students are enrolled in the Bachelor of Research Studies as a Commonwealth supported student and are liable for student contribution amounts which can be deferred through the HECS-HELP scheme if they are eligible. In Year 2, domestic students are enrolled in the Master of Research.

Further information about the Master of Research can be found on the Future Students Research Studies pages.

Study Mode

Two years full-time or four years part-time

Location

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

Admission

Admission is determined by the following criteria being met

- A Bachelor's degree or a Master's degree;
- Achievement of a threshold Admission Average Mark (AAM) equal to or above the minimum of 65;
- Demonstrated professional experience in a related discipline to be considered at the discretion of the Dean, Graduate Studies for applicants whose most recent qualification is 5+ years old and
- A statement that outlines a tentative research area.

Additionally for International students an English proficiency requirement of IELTS 6.5 overall (minimum 6.0 in each band) or equivalent.

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills Recognition (AEI-NOOSR) to be equivalent to Australian

qualifications in order to be considered by UAC and the University.

Course Structure

Year 1 of this course will also be studied by International students enrolled in 8084 Master of Research (High Cost) and 8085 Master of Research (Low Cost).

After completion of Year 1, domestic students will be transferred to either 8084 Master of Research (High Cost) or 8085 Master of Research (Low Cost), depending on their research discipline area.

Qualification for the award of Master of Research requires the successful completion of 160 credit points. All students will complete 80 credit points of coursework units and 80 credit points of higher degree by research.

All students must enrol in and complete the 30 credit points of prescribed Core units.

Core units

800166.1	Research Design 1: Theories of Enquiry
800169.1	Research Design 2: Practices of Research
800167.1	Research Literacies

Students must also complete

- 50 credit points of specialisation units. Students will choose 40 credit points of discipline-specific units from within their specialisation and are encouraged to choose 10 credit points from the other specialisation, however this is not mandatory. Students are required to complete 50 credit points of specialisation units in total. The two specialisation discipline areas are Humanities, Arts and Social Sciences (HASS) and Science, Technology, Engineering and Mathematics (STEM), as shown below.

- 80 credit points of higher degree research.

Students may exit with the Bachelor of Research Studies (exit only) after Year 1 and the successful completion of 80 credit points, with advanced standing of 160 credit points from their previous undergraduate qualification being granted.

Humanities, Arts and Social Sciences (HASS) Specialisation

Please note: units will be offered subject to demand and availability

Graduate Research School

800213.1	Fieldwork in Complex and Hostile Places
800176.2	Internship and Community Engagement (PG)

Humanities and Communication Arts

102341.1	Debates in Global History
102426.1	Digital Humanities Research Methods (PG)
102340.1	Engaging Discursive Fields
102339.2	Environmental Humanities
102602.1	Gender and Genre
102412.1	Global Digital Futures
102583.1	History of Ideas
102661.1	How to Write History
102342.1	In the Realms of the Sensory: Ecologies of Word, Sound and Image
102581.1	Literary Theory
102662.1	New Genres in Research Writing

- 102582.1** Philosophy of History and Politics
102298.1 The Cutting Edge: Advanced Studies in Humanities and Communication Arts
102584.1 The Image of Thought: Art, Film and Philosophy
102601.1 Understanding Race
102585.1 What is Islam?

Creative Writing

- 102220.1** Applied Methods in Literary Studies and Creative Writing
102222.1 Applied Practice in Literary Studies and Creative Writing
102500.1 Writing and Form
102497.1 Writing and Ideas
102498.1 Writing Practice and Tradition
102499.1 Writing Process
102501.1 Writing, Sounds, Images, Texts

Convergent Media

- 101962.1** Researching Convergent Media

Continental Philosophy

- 102381.1** Ethics
102380.1 Philosophical Aesthetics
102384.1 Political Philosophy
102379.1 Special Topics in Philosophy
102383.1 Topics in the History of Philosophy
102615.1 Theoretical Philosophy
102616.1 Philosophy and Literature
102618.1 Practical Philosophy
102619.1 Philosophy of Nature
102620.1 Philosophy, History and Interpretation

Creative Arts

- 102376.1** Creativity: Theory and Practice
102375.1 Research Methods in the Creative Arts

Linguistics and TESOL

- 102325.1** Advanced Academic English Skills
102525.1 Bilingualism and Education
101825.3 English Linguistics for TESOL
102621.1 Formal and Functional Grammar
100919.2 Investigating Second Language Acquisition
101854.1 Language and Linguistics Research Methods

Social Sciences and Psychology

- 102253.1** Digital Social Research in Action
102181.2 Nation, Power and Difference
102194.2 Social Research in the Digital World
102176.1 Theories of Difference and Diversity
102180.2 Translation from Theory and Research to Policy
102698.1 Green Urbanscapes: Bio-Physical Functions and Services

Urban Studies

- 101315.3** Financing Cities in the Global Economy
102069.1 Heritage and Planning
101633.2 Managing Cities: History and Theory

- 101634.2** Planning and Environmental Regulation

Development, Security and Sustainability

- 101636.2** Developing Sustainable Places
101896.1 Development and Security
101897.1 Development for Equality
101895.1 Political Economy of Development

Criminology

- 102200.1** Global Criminology and Human Rights
102198.1 Transnational Crime
102199.1 Violence, Culture and Criminal Justice

Religion and Society

- 102201.1** Contemporary Theories of Religion and Society
101897.1 Development for Equality
102202.1 Religion and Law in Contemporary Public Discourse

Humanitarian and Development Studies

- 101896.1** Development and Security
102575.1 Emergency and Disaster Management
102576.1 Global Health, Migration and Development
102577.1 Humanitarian and Development Agendas and Progress
102574.1 Public Health in Complex Emergencies (Advanced)

Institute for Culture and Society

- 800216.1** Researching Post-Capitalist Possibilities (PhD Summer School)
800196.1 Rethinking Culture and Society
102295.1 Space, Place and the Field

Education

Please be advised that the majority of units offered by the School of Education commence before the beginning of regular (Autumn/Spring) commencement dates. Please ensure you contact the unit coordinator before enrolling.

- 102165.1** At the cultural interface - learning two ways
102159.1 Designing Curriculum Futures
102160.1 Education Policy, Practice and Global Knowledge Co-construction
102148.1 Engaging Communities
100701.1 Leadership, Mentoring and Professional Growth
102158.1 Learning and Teaching in Challenging Contexts
102166.1 Person-Centred Practice
102168.1 Principles and Practices of Evaluation
102152.1 Social Ecology
101658.1 Transformative Learning

Business

Business students are required to undertake 30 credit points of research training specialisation electives

- 200897.1** Advanced Analysis and Interpretation
200896.1 Business Analysis Seminars

200898.1 Seminal Papers in Business

Business students may then select up to 20 credit points of specialisation elective units

200401.4	Accounting Theory and Applications
200828.1	Diversity, Labour Markets and Workforce Planning
51054.3	Financial Modelling
200848.3	Governance, Ethics and Social Entrepreneurship
200719.2	Industrial Relations and Workplace Change
200852.2	Innovation, Creativity and Foresight
200845.2	Innovation Through Digital Technology
51211.3	International Finance
200849.1	New Venture Finance
200894.1	Property Development
51212.3	Security Analysis and Portfolio Theory
200722.2	Strategic Employment Relations
200329.4	Supply Chain Management

Law

200957.1	Bioethics in Perspective
200953.1	Human Rights in Practice and Theory
200948.1	International Banking and Finance Law
200949.1	International Climate Change Law
200962.2	International Criminal Law and Justice
200907.3	International Environmental Law and Policy
200961.1	International Human Rights Law
200951.1	International Law of Ocean Governance
200963.1	International Space Law - Commercial Aspects
200964.1	Principles of International Law
200980.1	Security of Ideas

Science, Technology, Engineering & Mathematics (STEM) Specialisation

Please note: units will be offered subject to demand and availability

Computing, Engineering and Mathematics

301010.1	Advanced Applied Mechanics
301008.1	Advanced Composite Structures
301023.1	Advanced Computational Fluid Dynamics
301022.1	Advanced Computer Aided Engineering
300603.3	Advanced Control Systems
300173.3	Advanced Data Networks
301019.1	Advanced Dynamic Systems
300601.3	Advanced Electrical Machines and Drives
300604.3	Advanced Geotechnical Engineering
301011.1	Advanced Highway Infrastructure
301176.1	Advanced Mathematical Investigations
301020.1	Advanced Mobile Robotics
301024.1	Advanced Numerical Methods in Engineering
301025.1	Advanced Power Quality
300599.3	Advanced Robotics
300596.3	Advanced Signal Processing
301026.1	Advanced Smart Grids and Distributed Generation
301013.1	Advanced Statistical Hydrology
300594.4	Advanced Structural Analysis
301021.1	Advanced Thermal and Fluid Engineering
301009.1	Advanced Timber Structures
301196.1	Advanced Topics in Artificial Intelligence
301236.1	Advanced Topics in Cybersecurity

300694.3	Advanced Topics in ICT
300252.3	Advanced Topics in Networking
301017.1	Advanced Waste Management
301016.1	Advanced Water and Wastewater Treatment
300595.3	Advanced Water Engineering
301042.1	Cloud Computing
301044.1	Data Science
301015.1	Deep Foundations
301118.1	Genomic Data Science
300515.4	Instrumentation and Measurement (PG)
301175.1	Internet of Things
301106.1	Mathematical Investigations
301177.1	Mathematical Proof and Reasoning
301018.1	Mechanical System Design
300600.3	Mechatronic System Design
300196.3	Personal Communication Systems
300197.3	Power System Planning and Economics
301037.2	Scientific Informatics
301002.1	Specialised Software Applications
301003.1	Sustainable Systems
300939.2	Sustainability and Risk Engineering (PG)
301012.1	Water Resources Systems Analysis

MARCS Institute for Brain, Behaviour and Development

800173.1	Cognitive Science: Research and Application
800171.1	Learning and Processing Human Language
800192.1	Neuroscience Methods

Hawkesbury Institute for the Environment

800170.1	Ecosystems in a Changing World
800186.1	Emerging Technologies for Biological Science
800195.1	Researching our Changing Environment

Nursing and Midwifery

401167.1	Applied Research in Health Care
400220.2	Contemporary Professional Practice in Mental Health Nursing
400975.1	Ethics in Health Research
400210.2	Health Promotion and the Nurse
400777.4	Leadership for Quality and Safety in Health Care
400774.2	Perspectives on Nursing
400238.3	Policy, Power and Politics in Health Care Provision

Science and Health

401291.1	Advanced Sport and Exercise Science
401203.1	Applications of Magnetic Resonance from Cancer to Neuroanatomy
401266.1	Experimental Design and Analysis PG A
401267.1	Experimental Design and Analysis PG B
401077.1	Introduction to Biostatistics
401076.1	Introduction to Epidemiology

Medicine

401178.1	Controversies in Epidemiology
401179.1	Data Management and Programming for Epidemiology
401174.1	Epidemiology of Non-Communicable Diseases
401173.1	Introduction to Clinical Epidemiology

- 401075.1 Major Incident Management
- 401176.1 Statistical Methods in Epidemiology

Translational Health Research Institute (THRI)

- 800215.1 Applied research with marginalised populations and sensitive health topics

Equivalent Specialisation Units

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

- 401162 - Experimental Design and Analysis (PG)
- 102336 - Functional Grammar
- 401164 - Transferable Research Skills

Units

101796.1 19th Century American Literature

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit focuses on literature from the American Renaissance through to the end of the Civil War. Issues to be examined will include some of the following: the construction of a national literature, the ideology of American Exceptionalism, the tension between the religious and the secular, and the clash between freedom and slavery. Texts may include fiction, poetry and drama.

102099.1 20th Century American Literature

Credit Points 10 **Level** 3

Equivalent Units

100845 - American Literature; 100642 - Classic American Literature; 100643 - Modern American Literature; 100506 - American Literature

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit explores twentieth century American literature. Issues to be examined include some of the following: the construction of a national literature, struggles for justice and human rights, the intersection of race, gender and sexuality, the ideology of American Exceptionalism, the rise and fall of 'The American Dream', place and time in American literature. A range of text types will be taught.

301164.2 3D Modelling Fundamentals

Credit Points 10 **Level** 1

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This unit will introduce the fundamentals of 3D surface modelling. Students will learn the theory of 3D surface modelling and will gain practical skills in creating 3D assets using a popular software package from Autodesk. They will also learn how to design characters and how to integrate their assets with a purpose of producing complex 3D scenes and animated movies. This unit is aimed at students who have no prior knowledge of 3D modelling and are not familiar with associated software packages.

400958.3 A Field Study: Comparative Studies of Health Care Delivery

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Must be enrolled in 4691 Bachelor of Nursing or 4693 Bachelor of Nursing (Advanced) course/s. Must have

passed 80 credit points of the Undergraduate Nursing Degree at Western Sydney University. Permission required to enrol in this unit.

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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The focus of this unit is to provide nursing students with the problem-solving skills required in assessing and caring for people who are living in poverty in remote or rural areas in Australia and/or internationally. This unit is designed to enable students to develop cultural awareness and understanding of health care delivery and contemporary issues confronting health care for people who are living in remote or rural areas in Australia and/or internationally. Students will be eligible for up to 80 hours of approved clinical hours following successful completion of the clinical assessment tool by an accredited registered nurse.

101882.1 A History of Modern Global Buddhism

Credit Points 10 **Level** 2

Equivalent Units

63120 - Communication and Culture in Asia 2: Performing Asian Cultures and Identities

Incompatible Units

100850 - Buddhism in the Contemporary World

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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A history of Buddhism and its spread through Asian and more recently to the West, introducing its principal beliefs and practices, the diversity of its manifestations, its political, cultural, and social impact. This unit is a history of this current global religion in its social, cultural and political context.

401206.1 Aboriginal and Torres Strait Islander Health

Credit Points 10 **Level** 2

Assumed Knowledge

Foundational knowledge related to primary health care, professional communication, behavioural and social sciences, nursing or midwifery practice.

Equivalent Units

401009 Health in a Culturally Diverse Community

Unit Enrolment Restrictions

Students must be enrolled in 4691 Bachelor of Nursing, 4692 Bachelor of Nursing Graduate Entry, 4693 Bachelor of Nursing (Advanced) or 4684 Bachelor of Midwifery.

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit will specifically enable nursing and midwifery students to investigate, discuss and develop an understanding of Aboriginal and Torres Strait Islander health, health statistics, historical and present day issues associated with poor health outcomes in Aboriginal and Torres Strait Islander people. In addition, the general concepts of cultural safety and health and illness, will be explored in terms of Aboriginal and Torres Strait Islander populations. Further, the unit promotes the development of critical knowledge essential for students to understand their own values, beliefs, biases, and perceptions to become culturally sensitive and appropriately adaptable when meeting the health needs of Aboriginal and Torres Strait Islander People. A case study approach will provide the framework for students to explore and reflect on the impact of the different attitudes, institutional policies and value systems relating to the health of Aboriginal and Torres Strait Islander people in Australia.

200193.2 Abstract Algebra

Credit Points 10 **Level** 3

Prerequisite

200025.2 Discrete Mathematics

Equivalent Units

14702 - Advanced Algebra, 14383 - Algebra 3

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This unit develops algebraic thought to a high level. The abstract concepts involved in the main topics (group theory and number theory) have many applications in science and technology, and the unit includes an application to cryptography.

700276.1 Academic and Professional Communication (WSTC Prep)

Credit Points 10 **Level** Z

Unit Enrolment Restrictions

Students must be enrolled in 7138 Diploma in Information and Communications Technology - ICT or 7139 Diploma in Information and Communications Technology or 7140 Diploma in Information and Communications Technology - Information Systems or 7141 Diploma in Information and Communications Technology (Health Information Management) Extended.

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The ability to communicate clearly and persuasively to diverse audiences is a key professional prerequisite. This unit provides students with a preliminary understanding of a range of communication theories and practices necessary

for academic work and effective professional communication.

700056.3 Academic English (WSTC Prep)

Credit Points 10 **Level** Z

Equivalent Units

900021 - Academic English (UWSC)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

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This unit is designed to improve English proficiency for overseas and local students who wish to progress to university studies. In particular, the course aims to help students access the conventions of academic English by focusing on attitudes to knowledge, the ways in which ideas are structured and presented and surface language correctness. In addition, the course encourages students to develop strategies to maximize their learning and to reflect on their own learning styles.

700200.2 Academic Skills for Construction Management (WSTC Prep)

Credit Points 10 **Level** Z

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

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This unit is designed to assist students to become successful independent reflective learners. It introduces students to a range of theories and concepts to facilitate the development of practical skills and personal attitudes necessary for success in tertiary study. Emphasis is placed on developing the key competencies of the business units of the courses, including professional communication, critical reading and writing.

700225.3 Academic Skills for Health Science (WSTC Prep)

Credit Points 10 **Level** Z

Equivalent Units

900099 - Academic Skills for Health Science (WSTC)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

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This unit is designed to assist students to become successful independent learners. It introduces students to a range of theories and concepts to facilitate the development of practical skills and personal attitudes necessary for success in tertiary study. Emphasis is placed on developing the key competencies such as time management, critical thinking, researching, learning how to learn and linking education to career choices.

700205.2 Academic Skills for Information Communications Technology (WSTC Prep)

Credit Points 10 **Level** Z

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

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This unit is designed to assist students to become successful independent reflective learners. It introduces students to a range of theories and concepts to facilitate the development of practical skills and personal attitudes necessary for success in tertiary study. Emphasis is placed on developing the key competencies of scientific inquiry – collecting, analysing, organising and communicating information as well as solving problems, particularly when related to using mathematical ideas and techniques.

700230.2 Academic Skills for Science (WSTC Prep)

Credit Points 10 **Level** Z

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

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This unit is designed to assist students to become successful independent reflective learners. It introduces students to a range of theories and concepts to facilitate the development of practical skills and personal attitudes necessary for success in tertiary study. Emphasis is placed on developing the key competencies of scientific enquiry – collecting, analysing, organising and communicating information as well as solving problems, particularly when related to using mathematical ideas and techniques.

200972.1 Accounting in Context

Credit Points 10 **Level** 1

Equivalent Units

200101 - Accounting Information for Managers, 200103 - Accounting Reports and Decisions, 700005 - Accounting Information for Managers (WSTC), 700078 - Accounting Information for Managers (Creative Industries), 61111 - Introductory Financial Accounting

Unit Enrolment Restrictions

This unit is not available to students enrolled in courses 2607 Bachelor of Construction Management, 2769 Bachelor of Construction Management Studies/Bachelor of Laws, 3692 Bachelor of Construction Technology, 3727 Bachelor of Building Design Management. Students enrolled in these courses must complete unit 200101 - Accounting Information for Managers. Note: The new unit 200972 Accounting in Context is deemed equivalent to 200101 Accounting Information for Managers, for accounting course purposes, as most of the unit content and learning outcomes are similar. However some of the content around budgeting and cost profit analysis is not available in the new unit but is still required by the SCEM courses. For this reason, students enrolled in some SCEM

courses must complete 200101 AIM and not the new equivalent unit 200972 AIC.

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Accounting in Context is the first core unit required in the accredited accounting program, but can be included as an elective in other courses. It is designed to provide an overarching context about the purpose and usefulness of accounting information and explain a range of definitions and terms used in accounting and business. Accounting in Context will introduce accounting reports and their interpretation, and explore the impact of policy and measurement methods on accounting information and business decisions. Successful completion of the unit will equip participants with an understanding of the importance of accounting to society and allow them to engage with the next core accounting unit; Financial Accounting Applications.

200101.6 Accounting Information for Managers

Credit Points 10 **Level** 1

Equivalent Units

61111 - Introduction to Financial Accounting, 200103 - Accounting Reports and Decisions, 700005 - Accounting Information for Managers (WSTC), 700078 - Accounting Information for Managers (Creative Industries), 700274 - Accounting in Context (WSTC)

Incompatible Units

200972 - Accounting in Context

Unit Enrolment Restrictions

The unit is available to students, who are not enrolled in a Bachelor of Business or Bachelor of Accounting, or a continuing Bachelor of Business and Commerce course, who must take the unit as core or wish to take the unit as an elective. Students must be enrolled in 2607, 2769, 3692, 3727, 2773, 2739 or 2753, and any combined Bachelor of Business and Commerce course. And Students in 2739, 2753, 2783, 2786 and 2787 must seek permission before enrolling in this unit.

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This unit provides exposure to financial and management accounting information from the viewpoint of a non-accounting specialist. The unit aims to provide breadth of awareness and knowledge in relevant fields of accounting essential to decision making for managers.

70005.6 Accounting Information for Managers (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

200101 - Accounting Information for Managers

Incompatible Units

200972 Accounting in Context, 700274 Accounting in Context (WSTC)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the

course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

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This unit provides exposure to financial and management accounting information from the viewpoint of a non-accounting specialist. The unit aims to provide breadth of awareness and knowledge in relevant fields of accounting essential to decision making for managers.

200534.3 Accounting Information Systems

Credit Points 10 **Level** 3

Assumed Knowledge

Basic financial and management accounting fundamentals, including use of spreadsheets in accounting and the use of a computerised accounting package.

Prerequisite

200116.4 Management Accounting Fundamentals

Equivalent Units

AC202A - Accounting Information Systems, 61141 - Accounting Information Systems, 200114 - Issues in Accounting Information Systems

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This unit considers the design and implementation of accounting information systems as a data model for resource allocation and management of an organisation. It includes consideration of current trends in information management and the changing regulatory requirements.

200974.1 Accounting Standards and Governance

Credit Points 10 **Level** 3

Prerequisite

200973.1 Techniques in Financial Accounting

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This unit builds on the first and second year accounting units, exploring financial reporting issues in greater depth and challenging students to question the foundations of financial reporting. Based on International Financial Reporting Standards (IFRS) and the Australian Accounting Standards Board equivalents (AASB), topics include the regulatory, theoretical and conceptual foundations of financial reporting; corporate social responsibility; accounting for revenue, expenses, liabilities, equity and intangibles; recognition, measurement, revaluation and impairment of different types of assets; accounting for leases; Accounting for financial instruments: accounting for employee benefits; revenue recognition and other comprehensive income; and financial statement analysis. The unit develops graduate capabilities centred upon critical thinking skills, technical skills and professional judgement and their application for solving practical financial reporting and environmental social governance issues.

200401.4 Accounting Theory and Applications

Credit Points 10 **Level** 7

Assumed Knowledge

Basic knowledge of accounting principles

Prerequisite

200400.4 Company Accounting

Equivalent Units

51264 - Financial Accounting D (PG)

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course or in courses 8083 Bachelor of Research Studies, 8084 Master of Research (HC) and 8085 Master of Research (LC). The prerequisite requirement noted above does not apply to students enrolled in courses 8083 Bachelor of Research Studies, 8084 Master of Research (HC) and 8085 Master of Research (LC). Students wishing to take this unit as an elective need approval from the Course Advisor.

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Basic questions of the role accounting performs in society are considered from economic, social and environmental perspectives. The nature of the statements advanced to give accounting legitimacy, together with their philosophical underpinnings, are examined. Selected accounting theories and philosophies will be examined and advanced applications in alternative accounting models considered. Accounting research and appropriate methodologies are introduced.

101981.1 Activism, Engagement and Social Change

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit is designed for students interested in the politics, processes and ethics of social change. It covers the topics of Internet activism, NGO politics and ethics, identity politics, legal lobbying, revolutions and regime changes, and the role of art in consciousness raising. We will explore the efficacy of different social change strategies, the ethics of various modes of activism, the role that national and transnational politics plays in campaigning, the importance of identity for engagement with social change processes, and the ideologies informing theories of change.

300954.1 Activity Based Funding/Casemix and Data Quality

Credit Points 10 **Level** 3

Assumed Knowledge

Medical terminology and clinical classification

Prerequisite

300951.2 Clinical Classification and Coding

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This unit will introduce students to Activity Based Funding and Casemix within the Australian healthcare system. It is designed to cover a variety of casemix classification systems for acute, non-admitted, sub-acute and mental health patients. Attention will be given to Diagnosis Related Groups (DRGs) with specific reference to the Australian Refined Diagnosis Related Groups (AR-DRGs) and the relationship to Activity Based Funding and purchasing models. Measuring performance with activity data and clinical costing methods will be explored. Emphasis will be placed on the impact of data quality as a critical component in achieving excellence in clinical costing, casemix and patient safety.

400873.2 Acupuncture Techniques

Credit Points 10 **Level** 3

Prerequisite

400875.2 Channels and Points 2 AND **400352.2** Traditional Chinese Medicine 3

Equivalent Units

400350 - Acupuncture 2

Unit Enrolment Restrictions

Students must be enrolled in 4660 Bachelor of Health Science-Master of Traditional Chinese Medicine or 4710 Bachelor of Traditional Chinese Medicine to be able to enrol in this unit.

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This unit consolidates and extends students' knowledge of acupuncture theory and practice, and provides further opportunity to develop practical skills. Students are introduced to the theory of point combinations and the development of acupuncture prescriptions and treatment plans. Practical sessions include obtaining Qi (De Qi), promoting Qi techniques, tonifying and reducing needling techniques, moxibustion, cupping, Gua Sha, Tuina, intradermal/cutaneous needling, scalp acupuncture, auricular acupuncture, wrist/ankle acupuncture, electroacupuncture and laser acupuncture. This unit also expands upon the student's understanding of the theory and practice principles of traditional Chinese medicine.

401302.1 Adult Speech and Language

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Students must be enrolled in the 4763 Bachelor of Speech Pathology or 4764 Bachelor of Speech Pathology (Honours).

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This unit discusses speech and language development and change from young adults to the elderly. It focuses on acquired communication disorders of neurological origin, such as aphasia and related disorders, apraxia of speech and dysarthria, and the diagnosis and treatment of serious communication disorders.

102325.1 Advanced Academic English Skills

Credit Points 10 **Level** 7

Assumed Knowledge

English language proficiency equivalent to an overall IELTS score of 7.0.

Unit Enrolment Restrictions

Students must be enrolled in courses 1800 Master of Arts in TESOL, 1801 Graduate Diploma in TESOL, 1816 Master of Translation and TESOL, 1777 Master of Interpreting and Translation, 1780 Master of Arts Translation and Interpreting Studies or 8083 Bachelor of Research Studies. The unit may also be undertaken as a non-award unit.

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This is a language-analysis intensive unit with practical application for real situational English language teaching. It offers students theoretical overviews of language analysis, from the sentential-clausal-lexical-grammatical level to highly contextualised discourse study. It requires students to engage with a variety of real-life instances of language use while also investigating the potentialities of extensive linguistic repertoires. By exposing students to both the realities of actual language use and the possibilities inherent in varieties of English, students are better prepared for the demands of English (second and foreign) language teaching across multiple contexts.

200897.1 Advanced Analysis and Interpretation

Credit Points 10 **Level** 5

Corequisite

800166.1 Research Design 1: Theories of Enquiry

Unit Enrolment Restrictions

Students must be enrolled in course 8083 Bachelor of Research Studies/Master of Research.

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Building on the introduction to the analysis of qualitative data presented in the core unit Research Design 1: Theories of Enquiry this unit, Advanced Analysis and Interpretation, will provide candidates with the techniques necessary to use, analyse and interpret qualitative data in business research. Presented as a series of seminar-workshops, candidates consider the theories that underpin the employed analytical methods, and then move to employ introduced qualitative software tools to analyse and interpret research data.

300925.1 Advanced Analytical Chemistry

Credit Points 10 **Level** 3

Prerequisite

300832.1 Analytical Chemistry

Equivalent Units

300298 - Analytical Chemistry 3, 300537 - Advanced Chemical Analysis

This unit builds on Analytical Chemistry 2 and focuses more on instrumental analysis, isolation and cleanup techniques and aspects of quality control and quality assurance in an analytical laboratory and in manufacturing are discussed. The instrumental methods covered include atomic spectroscopy (for example, atomic absorption and emission, x-ray fluorescence), molecular spectroscopy (for example, UV-Vis, IR, fluorometry, mass spectrometry), chromatography, electrochemistry, thermal methods and automated methods. The theory of the instrumental methods, their construction, operation and applications are covered. The theory and application of isolation and cleanup techniques in inorganic and organic residue analysis are given.

301010.1 Advanced Applied Mechanics

Credit Points 10 **Level** 7

Assumed Knowledge

Students should have prior knowledge of strain, stress and deflection analysis of simple structures as well as knowledge of energy principle for structural analysis.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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Applied mechanics deals with the mechanical responses of structural components under various loading and support conditions. This unit will introduce the theory of elasticity and study the bending, buckling and vibration behaviours of beams, plates and shells and their associated applications in engineering practices.

200028.3 Advanced Calculus

Credit Points 10 **Level** 2

Prerequisite

300673.1 Mathematics 1B

Equivalent Units

14379 - Advanced Calculus, 14504 - Mathematics 4, J2764 - Mathematics 2.1,

Incompatible Units

200238 - Mathematics for Engineers 2

Unit Enrolment Restrictions

Students enrolled in Bachelor of Engineering, Bachelor of Engineering (Honours) or Bachelor of Engineering Science may not enrol in this unit.

Special Requirements - Essential Equipment

Scientific calculator

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This unit is designed for students undertaking studies in mathematics, statistics, operations research and mathematical finance. It provides further mathematical training in the areas of multivariable and vector calculus, which is essential to the understanding of many areas of both pure and applied mathematics.

300850.1 Advanced Cell Biology

Credit Points 10 **Level** 3

Prerequisite

300848.1 Metabolism OR **300936.1** Functional Proteins and Genes OR **300817.1** Molecular Biology OR **300847.1** Immunology

Equivalent Units

300408 - Mammalian Cell Biology and Biotechnology;
300544 - Cell Signalling

Incompatible Units

300223 - Cell Signalling and Molecular Immunology

Special Requirements - Essential Equipment

Lab coat, enclosed footwear

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Cells of the body are studied in the context of health and disease, including mechanisms by which cells respond to the environment and integrate in and around tissue. Fundamental cellular processes are discussed that are important in embryonic development, stem cells, haematology and cancer. This unit investigates the action of hormones, growth factors and morphogens; their receptors and signalling pathways and the cellular responses they trigger. This unit covers modern techniques in cell culture, tissue engineering, advanced microscopy and other modern experimental approaches that enable dynamic understanding of live cell function.

300953.1 Advanced Clinical Classification

Credit Points 10 **Level** 3

Prerequisite

300951.2 Clinical Classification and Coding

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In this unit, the student will be introduced to disease notification and registration procedures. Mortality or cause of death coding will also be examined. Concepts of organising health information in a logical way to interface with an electronic information system will be investigated. The design and role of various health classification systems including the World Health Organizations Family of International Classifications (WHO FIC), specifically ICD 11 and casemix classification systems (e.g. AR DRGs, AN SNAP) will also be discussed. The practical component of this unit will focus on the student further developing their classification skills in the more complex areas of clinical coding including endocrine disorders, specifically diabetes mellitus, circulatory diseases and interventions, genitourinary disorders, specifically chronic kidney disease, obstetrics, paediatrics and congenital anomalies and trauma and procedural complications. The ACS will be applied in detail when classifying from complex discharge summaries and full clinical episodes of care. The student will also be exposed to electronic clinical coding tools that can be used in the classification process.

301008.1 Advanced Composite Structures

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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This unit enables students to gain an in-depth knowledge into composite structures based on Australian Standards and International Standards. Recent advances in the design of composite beams, slabs, columns and connections will be introduced.

301023.1 Advanced Computational Fluid Dynamics

Credit Points 10 **Level** 7

Assumed Knowledge

Finite element methods, Thermal dynamics and Fluid mechanics.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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This unit introduces students to commonly used numerical methods used in computational fluid dynamics (CFD). The unit covers the theory and the application of CFD for solving engineering problems. The numerical methods for solving the in viscid flow and the viscous flow problems will be introduced. The students learn the application of the engineering software in the engineering problems.

301022.1 Advanced Computer Aided Engineering

Credit Points 10 **Level** 7

Assumed Knowledge

Students are assumed to have a good understanding on basics of finite element method and analysis, fundamentals and advanced topics in mechanics of materials, fundamentals on fluid mechanics and heat transfer and thermal dynamics.

Unit Enrolment Restrictions

Students must be enrolled in 3693 Master of Engineering, 3695 Graduate Certificate in Engineering, or the Master of Research.

Special Requirements - Essential Equipment

Finite element analysis packages - Abaqus, ANSYS and SolidWorks

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This unit focuses on advanced topics in computer aided engineering and their applications in mechanical engineering in analysing a wide range of engineering problems. The objective of this unit is to advance students' knowledge and skill level on the finite element method (FEM)-based computer aided engineering (CAE) and its advanced applications in the fields of solid mechanics, fluid mechanics, thermodynamics and heat transfer and product design and development as well. Academic skills on

research and communication are ensured to be achieved through conducting FEM-based CAE projects.

300586.2 Advanced Computer Science Activities 1

Credit Points 0 **Level** 1

Unit Enrolment Restrictions

Students must be enrolled in 3634 Bachelor of Computer Science (Advanced).

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This unit is only for Bachelor of Computer Science (Advanced) students in year one of their studies. Students will participate in industry and research based extension activities (non-assessable). These activities will be identified with the goal of exposing students early in their degree and integrating them into a culture of academic enquiry, problem solving, knowledge generation and scholarship and an awareness of the challenges and current issues confronting the computing/IT industry. The unit will be used to record student activities and a satisfactory/ unsatisfactory grade will be applied at the end of each semester.

300587.2 Advanced Computer Science Activities 2

Credit Points 0 **Level** 2

Unit Enrolment Restrictions

Students must be enrolled in 3634 Bachelor of Computer Science (Advanced).

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This unit is only for Bachelor of Computer Science (Advanced) students in year two of their studies. Students will participate in industry and research based extension activities (non-assessable). These activities will be identified with the goal of exposing students early in their degree and integrating them into a culture of academic enquiry, problem solving, knowledge generation and scholarship and an awareness of the challenges and current issues confronting the computing/IT industry. The unit will be used to record student activities and a satisfactory/ unsatisfactory grade will be applied at the end of each semester.

300588.2 Advanced Computer Science Activities 3

Credit Points 0 **Level** 3

Unit Enrolment Restrictions

Students must be enrolled in 3634 Bachelor of Computer Science (Advanced).

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This unit is only for Bachelor of Computer Science (Advanced) students in year three of their studies. Students will participate in industry and research based extension activities (non-assessable). These activities will be identified with the goal of exposing students early in their degree and integrating them into a culture of academic enquiry, problem solving, knowledge generation and scholarship and an awareness of the challenges and

current issues confronting the computing/IT industry. The unit will be used to record student activities and a satisfactory/ unsatisfactory grade will be applied at the end of each semester.

300603.3 Advanced Control Systems

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge is assumed in Continuous time control systems, the use of Laplace and Z-transforms, Analog to digital, digital to analog conversion, Vector matrix difference equations, State variable models and familiarity with Matlab or similar software Knowledge is assumed in: Continuous time control systems; The use of Laplace and Z-transforms; Analog to digital, digital to analog conversion; Vector matrix difference equations; State variable models; Introductory Classical Control Systems Theory; Familiarity with MATLAB.

Incompatible Units

300211 - Digital Control, 300172 - Advanced Control Systems

Unit Enrolment Restrictions

Students must have competence in the use of test equipment, components and data sheets. Students must be enrolled in a postgraduate course.

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This unit covers continuous and discrete control systems. It reviews and builds on the fundamental concepts of the theory of feedback in continuous and discrete time to examine the analysis and design of advanced continuous and discrete time linear control systems. Transfer function and state variable methods are employed. Instruction makes use of extensive experimental tasks. There is also considerable use of Matlab simulations.

300173.3 Advanced Data Networks

Credit Points 10 **Level** 7

Assumed Knowledge

Communication Systems / Digital Communication

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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

301019.1 Advanced Dynamic Systems

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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This unit covers three-dimensional kinematics and kinetics of a rigid body. The principles of virtual work are used to

investigate the equilibrium and dynamics of mechanisms. Some key aspects of mechanical vibrations are introduced, including vibration response, vibration isolation and vibration measurement.

300763.1 Advanced Dynamics

Credit Points 10 **Level** 3

Prerequisite

300480.1 Dynamics of Mechanical Systems

Incompatible Units

300009 - Control Systems

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This unit covers the analysis and control of dynamical behaviour of mechanical systems. It discusses the fundamental principles in controlling mechanical dynamic systems. In particular, the unit will cover contents in: multi-degree of freedom vibration analysis and modelling; open and closed loop systems; transfer function and state variable methods in mechanical system modelling; concepts of stability; design and analyse control systems using root-locus, bode diagram and state-space methods for mechanical systems.

300601.3 Advanced Electrical Machines and Drives

Credit Points 10 **Level** 7

Assumed Knowledge

Electric Circuits and Basic Electro magnetics.

Incompatible Units

300208 - Variable Speed Electric Drives, 300204 - Special Electrical Machines

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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

300969.1 Advanced Engineering Thesis 1: Preliminary Investigations

Credit Points 10 **Level** 5

Unit Enrolment Restrictions

Students must be enrolled in 3690 Bachelor of Engineering Advanced (Honours) and have completed 220 credit points with a Grade Point Average 5.0 or above.

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Advanced Engineering Thesis 1 - Preliminary Investigations unit consists of a research project designed and implemented under the direction of an academic supervisor and research mentor. This unit is the culmination of studies for students who have completed their first three years of

an undergraduate degree and provides substantial training in Preliminary Investigations. Under staff supervision, students are allocated a particular topic for their research, design their own programme of research, and perform the research. The emphasis of this unit is on the application of research knowledge gained in other units to the practical conduct of the individual research project. This unit provides final year Advanced engineering students with the opportunity to undertake research on a specialist topic within their Key Program of undergraduate study.

300970.1 Advanced Engineering Thesis 2: Detailed Investigations

Credit Points 10 **Level** 5

Prerequisite

300969.1 Advanced Engineering Thesis 1: Preliminary Investigations

Unit Enrolment Restrictions

Students must be enrolled in 3690 Bachelor of Engineering Advanced (Honours) and have completed 220 credit points with a Grade Point Average 5.0 or above.

Advanced Engineering Thesis 2 - Detailed Investigations unit consists of a research project designed and implemented under the direction of an academic supervisor and research mentor. This unit is the culmination of studies for students who have completed their first three years of an undergraduate degree and provides substantial training in detailed Investigations. Under staff supervision, students are allocated a particular topic for their research, design their own programme of research, and perform the research. The emphasis of this unit is on the application of research knowledge gained in other units and in Engineering Thesis 1 - Preliminary Investigations to the practical conduct of the individual research project. This unit provides final year Advanced engineering students with the opportunity to undertake research on a specialist topic within their Key Program of undergraduate study.

300666.2 Advanced Engineering Topic 1

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Students must be enrolled in course 3666 Bachelor of Engineering (Advanced) or 3690 Bachelor of Engineering Advanced (Honours) and must have a course GPA equal to or greater than 5.5. Students should have successfully completed 160 credit points to be able to study the advanced engineering topics in the unit.

This unit provides students with the opportunity to tackle challenging engineering problems. They will study advanced topics in selected areas under the supervision of academics. The advanced topics will prepare students for further study and research.

300667.2 Advanced Engineering Topic 2

Credit Points 10 **Level** 4

Prerequisite

300666.2 Advanced Engineering Topic 1

Unit Enrolment Restrictions

Students must be enrolled in course 3666 Bachelor of Engineering (Advanced) or 3690 Bachelor of Engineering Advanced (Honours) and must have a course GPA equal to or greater than 5.5.

This unit provides students with the opportunity to tackle engineering problems that are more challenging than those in Advanced Engineering Topic 1. They will study advanced topics in selected areas under the supervision of academics. The advanced topics will prepare students for further study and research.

300904.1 Advanced Food Science and Technology

Credit Points 10 **Level** 3

Prerequisite

300842.1 Food Science 2 AND **300922.1** Quality Assurance and Food Analysis

Equivalent Units

300780 - Advanced Food Science and Technology

Incompatible Units

300636 - Food Processing and Analysis, 300641 - Packaging Science and Technology

Special Requirements - Essential Equipment

Students required to have Personal Protection Equipment e. g. Laboratory coat, safety goggles, enclosed shoes.

This unit will extend student understanding of current and emerging food processes and packaging technologies. Students will gain an appreciation of the physicochemical processes involved in food manufacture and their integration to produce safe, nutritious and palatable food. Students will become familiar with methods to monitor shelf life of foods, learn about packaging science and be able to select the most appropriate packaging solution for a range of food applications. The environmental impact of food processing and packaging will also be explored, along with the factors affecting the sustainability of food manufacture. Practical workshops will be conducted to produce and analyse food products, plus factory tours to food manufacturing and packaging sites.

300604.3 Advanced Geotechnical Engineering

Credit Points 10 **Level** 7

Assumed Knowledge

Fundamental knowledge of soil mechanics.

Equivalent Units

300520 - Foundation Engineering (PG)

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

This unit will provide an overview of soil mechanics concepts required for the solution of practical geotechnical

engineering problems. Students will be taught soil and foundation analysis including design techniques. The topics will cover shallow foundations, pile foundations, the stability of earth retaining structures, excavations, soft soils, groundwater flow and stability of slopes. Practical engineering cases will be emphasized.

301011.1 Advanced Highway Infrastructure

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

This unit teaches bridge superstructure design and ground engineering design prior to construction of the highway. The aim is to provide students with advanced knowledge in bridge construction, loading and structural design, ground improvement techniques to deal with soft and weak grounds, and construction of highway embankments. These aspects will be taught in relation to Australian design codes.

300905.1 Advanced Immunology

Credit Points 10 **Level** 3

Prerequisite

[300936.1](#) Functional Proteins and Genes

Equivalent Units

300757 - Molecular Biological of the Immune System

The human immune system is a milieu of cells, cytokines, chemokines, growth factors and cell adhesion molecules which form an elaborate molecular communication network through a number of signalling networks and molecules. The relevance of this knowledge for understanding the pathology and specific diseases of the human immune system are emphasised through the unit. This unit also provides an in depth analysis of the molecular mechanisms of cell to cell communication, cell activation, the immunological synapse, transplant rejection (including adoptive transfer experimentation), antigen presentation, B and T cell recruitment and MHC restriction. Medical and diagnostic applications of hybridoma technology, antibody engineering and advances in vaccine development are discussed. The laboratory course will develop technical and interpretative skills in relevant techniques, in particular the ImmunoCAP technology for asthma and allergy diagnosis.

300907.1 Advanced Inorganic Chemistry

Credit Points 10 **Level** 3

Prerequisite

[300545.2](#) Coordination Chemistry OR [300230.2](#) Inorganic Chemistry 2 OR [300899.1](#) Inorganic Chemistry

Equivalent Units

J3668 - Inorganic Chemistry 3, 300231 - Inorganic Chemistry 3, 300538 - Advanced Inorganic Chemistry

Special Requirements - Essential Equipment

Students are required to have laboratory coat, appropriate shoes and eye protection.

Building on the foundations laid in Inorganic Chemistry, this unit focuses on structure and bonding in inorganic chemistry, and the stereochemistry of coordination complexes. Spectroscopic and magnetic properties of inorganic compounds are evaluated as a consequence of structure and bonding, and an introduction to X-ray methods for structure determination is given. Kinetics and mechanism of inorganic reactions are examined, and the area of bioinorganic chemistry is developed. Unique structures and reactions of organotransition metal chemistry are explored. Advanced Modules cover aqueous chemistry of cations and oxyanions, inorganic materials, molecular orbital theory in coordination complexes, group theory; lanthanides and actinides.

301176.1 Advanced Mathematical Investigations

Credit Points 20 **Level** 7

Assumed Knowledge

Undergraduate level of knowledge in mathematics or statistics

Unit Enrolment Restrictions

Students must be enrolled in 8086 Master of Research.

Special Requirements - Essential Equipment

Advanced Mathematical Investigations is an integral part of the Master of Research for students planning a future in mathematical and/or statistical research. Students will carry out extensive investigations under the supervision of an academic staff member that will allow the development of skills, knowledge and a way of thinking that will assist in the learning of mathematics and/or statistics needed for research in their chosen field of mathematics. They will also develop their written and oral communication skills, culminating in a paper which will be written as though it is to be submitted to a mathematics/statistics journal for publication (including following the journal's requirements for presentation) and an oral presentation of the style expected at a mathematics/statistics conference.

Advanced Mathematical Investigations is an integral part of the Master of Research for students planning a future in mathematical and/or statistical research. Students will carry out extensive investigations under the supervision of an academic staff member that will allow the development of skills, knowledge and a way of thinking that will assist in the learning of mathematics and/or statistics needed for research in their chosen field of mathematics. They will also develop their written and oral communication skills, culminating in a paper which will be written as though it is to be submitted to a mathematics/statistics journal for publication (including following the journal's requirements for presentation) and an oral presentation of the style expected at a mathematics/statistics conference.

300761.1 Advanced Mechanics of Materials

Credit Points 10 **Level** 3

Assumed Knowledge

This subject assumes that the student has undertaken the first and second year studies in Western Sydney University engineering courses or equivalent.

Prerequisite

300040.1 Mechanics of Materials

Extending upon the unit Mechanics of Materials, this unit will look at what happens when components undergo non-elastic deformation. It will look at how stresses depend on the orientation of the reference axes, and at how materials fail – including creep, fatigue and stress concentrations. It will then look at properties of metals, including alloys and phase diagrams.

300891.1 Advanced Medicinal Chemistry

Credit Points 10 **Level** 3

Prerequisite

300803.1 Essential Chemistry 2

Unit Enrolment Restrictions

Successful completion of 40 credit points at Level 2 or 3

Medicinal Chemistry is an interdisciplinary science that exists at the intersection of chemistry, pharmacology, physiology and human health. Students will explore the multidisciplinary nature and interconnectedness of medicinal chemistry through in-depth study of topics that relate medicinal chemistry to disciplines such as physiology, natural product science, biochemistry and pharmacology. It will also explore the expectations of a professional medicinal chemist.

301020.1 Advanced Mobile Robotics

Credit Points 10 **Level** 7

Assumed Knowledge

Some basic skills in MATLAB and C/C++ programming.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

This unit is designed to develop an understanding of the concepts involved in Mobile Robotics. The areas of mobile robot mechanics, localisation, map building and path planning will be introduced. Various sensors and their applications in mobile robotics are also to be introduced.

301128.1 Advanced Mortuary Practice

Credit Points 10 **Level** 3

Prerequisite

301127.1 Mortuary Practice

Corequisite

300897.1 Anatomy of the Head and Neck

Unit Enrolment Restrictions

Students must be enrolled in 3733 BMedSc (Forensic Mortuary Practice).

Special Requirements - Essential Equipment

- University 'uniform'/shirt - Gumboots

This unit further develops skills in a forensic mortuary practice. Students will undertake a placement within a NSW Forensic and Analytical Science Service (FASS) facility or NSW Organ and Tissue Donation Service. This unit, together with completion of 301127 Mortuary Practice is essential for graduates of this course seeking employment as a forensic technician with FASS.

301024.1 Advanced Numerical Methods in Engineering

Credit Points 10 **Level** 7

Assumed Knowledge

Students should have prior knowledge of strain, stress and deflection analysis of simple structures as well as knowledge of energy principle for structural analysis.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

The finite element method is an essential tool for the analysis and design of machine parts and civil engineering structures. The objective of this unit is to introduce the principles of finite element method and the applications of one, two and three dimensional elements in solving various engineering problems.

300906.1 Advanced Organic Chemistry

Credit Points 10 **Level** 3

Prerequisite

300876.1 Organic Chemistry

Equivalent Units

300546 - Drug Design and Synthesis, 300235 - Organic Chemistry 3

Special Requirements - Essential Equipment

Students are required to have laboratory coat, appropriate shoes and eye protection.

This unit builds on the reactions learnt in the unit Organic Chemistry, extending the range of C-C bond forming reactions to include the most significant in modern synthesis. In the second stage students learn to develop multistep synthetic strategies to produce target molecules using their level 2 organic chemistry and the reactions above. Structural analysis by mass spectroscopy and more advanced NMR techniques is also investigated. The students use this chemistry in a lab course designed to highlight a number of these concepts (including the

synthesis of 2 pharmaceutical compounds and a team experiment) and to extend their range of practical skills.

300926.1 Advanced Physical Chemistry

Credit Points 10 **Level** 3

Assumed Knowledge

An understanding of and competence with the basic principles of physical chemistry including states and properties of matter, thermodynamics, chemical equilibria, kinetics and electrochemistry.

Prerequisite

300849.1 Physical Chemistry

Equivalent Units

300303 - Physical Chemistry 3

Special Requirements - Essential Equipment

Students are required to have laboratory coat, appropriate shoes and eye protection.

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Advanced Physical Chemistry builds on the fundamental principals of energy changes in systems (thermodynamics), and the rates and mechanisms of reactions (kinetics) learnt in Physical Chemistry and extends this so that students gain an understanding of polymer and surface chemistries. This unit also will strengthen student's problem solving skills in quantitative chemical analysis, develop experimental techniques and advanced data-analysis skills.

300851.1 Advanced Physiology

Credit Points 10 **Level** 3

Assumed Knowledge

Demonstrated sound understanding of physiological systems of the human body.

Prerequisite

300818.1 Introduction to Physiology OR **300838.1** Comparative Physiology

Equivalent Units

300622 - Human Physiology, 300326 - Topics in Physiology

Special Requirements - Essential Equipment

Laboratory coat, safety goggles, enclosed footwear.

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Physiology is the study of the way in which a living organism and its bodily parts function. This unit will examine integrative aspects of physiological control mechanisms comprising multiple organ systems and mechanisms of adaptation to environmental factors. It will focus on regulatory function of ion channels, neurophysiology, sensory physiology, motor control, metabolism, cardiovascular and respiratory systems. Students will have the opportunity to independently research, in depth, an area of physiology pertinent to their interest.

301025.1 Advanced Power Quality

Credit Points 10 **Level** 7

Assumed Knowledge

Students are expected to be familiar with basic power system calculations including balanced and unbalanced three-phase systems.

Unit Enrolment Restrictions

Students must be enrolled in 3693 Master of Engineering, 3695 Graduate Certificate in Engineering or the Master of Research.

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This unit is to introduce students to power quality phenomena such as voltage sag/swell, distortions, unbalance, and flicker that occur in power systems. The unit also introduces terms and definitions associated with power quality, following which each phenomenon, that is, voltage sag/swell, transient overvoltage, and harmonics. In addition, flicker is presented and discussed in detail for students to understand the sources and impact of these occurrences on power system as well as typical mitigation techniques. Finally, students are introduced to power quality benchmarking, monitoring, assessment. In addition Advanced knowledge on network frequency responses is presented.

300599.3 Advanced Robotics

Credit Points 10 **Level** 7

Assumed Knowledge

Some Knowledge of MATLAB/Simulink

Incompatible Units

300176 - Advanced Robotics, 300192 - Mobile Robotic Systems

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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This unit is designed to introduce the engineering concepts involved in Robotics. The kinematics, dynamics, control and sensing aspects in robotics will be introduced. In addition, the concepts of artificial intelligence and their applications in robotics will also be discussed and assessed.

300937.1 Advanced Science Project A

Credit Points 10 **Level** 2

Equivalent Units

300591 - Advanced Science Research Project A

Unit Enrolment Restrictions

Students must be enrolled in 3562 Bachelor of Science (Advanced Science) or 3682 Bachelor of Medical Science (Advanced) or 3683 Bachelor of Natural Science (Advanced) and must have passed 80 credit points.

Special Requirements - Essential Equipment

Access to a computer and the internet

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The unit is design to teach students what is required to successfully begin to answer a scientific question. It specially focuses on teaching students how to access and critically review literature on a given topic, chosen in consultation with a supervisor in the student's preferred field of study. Students will present their findings in both written and poster formats. Students also attend a one day workshop where they engage with researchers in a wide variety of fields to broaden their understanding of research.

300938.1 Advanced Science Project B

Credit Points 10 **Level** 2

Prerequisite

300937.1 Advanced Science Project A

Equivalent Units

300592 - Advanced Science Project B

Unit Enrolment Restrictions

Students must be enrolled in 3562 Bachelor of Science (Advanced Science) or 3682 Bachelor of Medical Science (Advanced Science) or 3683 Bachelor of Natural Science (Advanced Science).

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This unit continues the students' training in thinking as a research scientist whilst developing analytical and critiquing skills in a range of science disciplines. Students will form hypothetical companies and develop a portfolio of scientific products that they will have to present as prospectus and in oral presentations. The students will have to assess the constraints of research having to address the WHS, gene technology, ethics and other legislative issues impacting their projects. Students will also have to manage budgets, market analyses and intellectual property issues.

300910.1 Advanced Science Project C

Credit Points 10 **Level** 3

Prerequisite

300938.1 Advanced Science Project B

Equivalent Units

300593 - Advanced Science Research Project C

Unit Enrolment Restrictions

Students must be enrolled in 3562 - Bachelor of Science (Advanced Science), 3682 - Bachelor of Medical Science (Advanced) or 3683 - Bachelor of Natural Science (Advanced).

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This unit advances the students' training in thinking as a research scientist whilst developing practical skills in a particular area of interest. The student undertakes a minor research project under supervision, during which they plan how to answer a research problem, conduct research and present their findings in a research paper format and seminar.

300596.3 Advanced Signal Processing

Credit Points 10 **Level** 7

Assumed Knowledge

Engineering mathematics, circuit theory, signals and systems.

Equivalent Units

300200 - Signal Processing 1

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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This unit covers the principles and techniques in signal processing. The subject matter includes advanced topics in discrete-time signals and systems, the z-transform and its applications in signal processing, advanced topics in the sampling of continuous-time signals, FIR and IIR filter design, filter structures, and the discrete Fourier transform and its computation. Students develop skills of analysing and designing digital signal processing systems.

301026.1 Advanced Smart Grids and Distributed Generation

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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This unit is designed to model, analyse and control of newly developing areas of distributed generation and smart grids. The unit will cover modelling, control, simulation and protection of such systems. The unit will also cover the impacts of renewable sources and power electronics on the operation of smart grids and micro-grids. The unit will also cover environmental and economic impacts of such systems.

401291.1 Advanced Sport and Exercise Science

Credit Points 20 **Level** 7

Assumed Knowledge

Students to have completed an undergraduate degree in Sport and Exercise Science or other closely related Health, Allied Health or Medical Science/Medicine undergraduate equivalent.

Unit Enrolment Restrictions

Students must be enrolled in 8083 - Bachelor of Research Studies/ Masters of Research

Special Requirements - Essential Equipment

Students must meet discipline specific requirements, e.g. personal protective clothing.

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This unit provides Bachelor of Research Studies/Masters of Research candidates with an interest in Sport & Exercise Science with an opportunity to further their knowledge and skill-sets in the field. Working closely with their assigned supervisor(s), students will prepare a work-plan to further

enhance their theoretical knowledge through a combination of independent and guided-study. The unit will provide students with an opportunity to strengthen their knowledge and expertise in their selected field of Sport & Exercise Science. The unit is focused on the development of discipline-specific knowledge (theoretical and practical) to prepare students for their research thesis and future career in a Sport & Exercise Science related field.

301013.1 Advanced Statistical Hydrology

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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This unit covers at-site flood frequency analysis, regional flood frequency analysis, trend analysis of hydrological data, linear regression analysis and multivariate statistical techniques to solve advanced hydrological problems.

300594.4 Advanced Structural Analysis

Credit Points 10 **Level** 7

Assumed Knowledge

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

Incompatible Units

300205 - Linear and Nonlinear Analysis of Structures, 300367 - Advanced Structural Engineering, 300195 - Numerical and Finite Element Methods

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit will introduce students at postgraduate level to structural analysis of trusses, beams, frames and plates. It covers the slope deflection method and matrix method for analysis of beams, trusses and frames, and the bending and buckling analysis of beams and plates under various loading conditions. The theories learned in classes will be reinforced in practical sessions by using computer software packages.

300799.1 Advanced Theoretical Computer Science

Credit Points 10 **Level** 3

Assumed Knowledge

Students are assumed to be proficient in programming in a language such as Java or C++ to a level equivalent to that covered by 300581 Programming Techniques.

Prerequisite

200025.2 Discrete Mathematics OR **300699.1** Discrete Structures and Complexity

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This Level 3 unit provides a comprehensive study on the logical and computational foundations of computer science. The first part of this unit covers propositional modal logic, logic programming, and basic concepts and methods of

computational complexity. The second part of this unit focuses on the application of logical and computational foundations to various computer science areas. This part covers the theory and practice of model checking and system verifications, reasoning about knowledge, and logic based security policy specification and reasoning.

301021.1 Advanced Thermal and Fluid Engineering

Credit Points 10 **Level** 7

Assumed Knowledge

Fundamental knowledge of fluid mechanics, theory of thermodynamics, knowledge of heat transfer including conduction, convection.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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This unit covers fundamental principles in the thermal and fluid engineering. While the main focus will remain on incompressible fluids, effects of compressible fluids will also be discussed. The contents of this unit include fluid mechanics, thermodynamics and heat transfer. Students will learn the engineering applications of thermal and fluid principles.

301009.1 Advanced Timber Structures

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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This unit enables students to gain an in-depth knowledge into timber structures based on Australian Standards. Design of timber beams, floors, columns and connections will be introduced with a focus on the use of plywood, round timbers, glue-laminated timber and structural laminated veneer lumber.

301196.1 Advanced Topics in Artificial Intelligence

Credit Points 10 **Level** 7

Assumed Knowledge

This unit requires basic skills in programming with either JAVA or C++ as the programming language.

Incompatible Units

300245 Intelligent Agents; 300385 Automated Negotiation and e-Trading; 300769 Intelligent Agents for eMarkets

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

.....

This unit introduces the most fundamental techniques of artificial intelligence (AI), including knowledge representation, searching, machine learning and intelligent agents. Students will learn the basic theories and algorithms that are essential in the design and development of intelligent systems. The unit will focus on two typical AI applications: game playing and e-trading. Students will

have the chance of using existing multiagent system platforms to design and develop intelligent software for game playing and automated trading in e-markets.

301236.1 Advanced Topics in Cybersecurity

Credit Points 10 **Level** 7

Assumed Knowledge

The students should be familiar with the fundamentals of computer networking and security. It is advisable that the students must have either taken appropriate units in these areas (e.g., 300695 Network Technologies and 300696 Systems and Network Security) or have equivalent knowledge.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit focuses on the advanced features of Cybersecurity, contemporary views on security, and the solutions that aim to protect the emerging services and technologies. The emphasis is on the development of student skills to enable them to do proficient research and development works and studies in the cybersecurity discipline. On successful completion of this unit, students will be equipped with an in-depth understanding of relevant issues, attacks on massively interconnected systems, and the evolving approaches to improve the reliability of advanced services.

300694.3 Advanced Topics in ICT

Credit Points 10 **Level** 7

Prerequisite

301005.1 Professional Practice and Communication

Corequisite

Students in 3698 Master of Information and Communications Technology (Advanced) or 3699 Master of Information and Communications Technology must be enrolled in or have passed 301004 Research Preparation in Post Graduate Studies before enrolling in this unit.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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The information and communications technologies are advancing at an ever-increasing rate. The whole world is now interconnected. The World Wide Web community is actively engaged in developing the next generation of the Web. Social networking on the Internet is facilitated by the latest developments such as Facebook, YouTube and MySpace. Artificial Intelligence is increasingly intertwined with the decisions we make every day. Large scale storage technologies are leading to Cloud Computing where data and applications may reside anywhere in the world. Research in how to access meaningful data from the vast amounts on the Web has led to initiatives such as Semantic Web and Linked Data. Mashups mix data from disparate sources to enable users to work more efficiently. Wireless and mobile computing are changing the market place. All of these trends are still in their early stages. To make sense of all these developments, the top echelons of the World Wide Web Consortium are actively engaged in

creating a new discipline called Web Science. Advanced Topics in ICT will enable the students to appreciate the scale of new developments and create prototypes of applications in their desired ambit. This unit consists of three Topics selected each semester. Assessment will be by a series of discussion paper assignments here students will show they have met the unit learning outcomes.

300252.3 Advanced Topics in Networking

Credit Points 10 **Level** 7

Assumed Knowledge

Students should be familiar with the fundamentals of computer networking. In particular, students should have a good understanding of the OSI model, the TCP/IP protocol suite, and current Internet and networking technologies. Therefore, it is strongly advised that students must have either taken an appropriate unit in computer networking (e.g., 300695 Network Technologies), or have equivalent knowledge.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

.....

This unit focuses on the advanced features of networked systems and the emerging network technologies and services. The unit provides students with an in-depth understanding of relevant protocols, the emerging standards, and standards organisations. The emphasis of the unit is on development of the student skills to enable them to do proficient research and development works and studies in the computer networking discipline.

301017.1 Advanced Waste Management

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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This unit covers sources, identification and characterisation of solid and hazardous waste generated from the community. Sustainable management of waste incorporating minimisation, recycle, recovery and disposable options is discussed. Also, atmospheric pollutants and their control, greenhouse gases and their impact on climate change are examined.

301016.1 Advanced Water and Wastewater Treatment

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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The unit focuses on design of conventional and emerging water and wastewater treatment unit processes using fundamental science and hydraulic engineering principles. The focus is on practical design. The student will be exposed to emerging water and wastewater treatment processes and its applications through research.

300595.3 Advanced Water Engineering

Credit Points 10 **Level** 7

Assumed Knowledge

Exposure to basic hydraulics and engineering hydrologic principles.

Incompatible Units

300766 Hydrology; 300983 Surface Water Hydrology

Unit Enrolment Restrictions

This is a specialised unit in a specialist discipline in Master of Engineering program. Students must be enrolled in a postgraduate engineering program undertaking a Civil Engineering specialisation or in the Master of Research.

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This unit introduces advanced principles of engineering hydrology as it pertains to the surface water component of the hydrologic cycle. Students are exposed to floodplain analysis techniques. The focus is on practical engineering solutions to issues originating from catchment development. Students are exposed to commonly used hydraulic and hydrologic software packages to delineate flooded areas resulting from such developments.

101295.2 Aesthetics

Credit Points 10 **Level** 3

Equivalent Units

63090 - Aesthetics

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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The major philosophies of art will be examined. The Western tradition will be surveyed from the Ancient Greeks through medieval and Renaissance theories of art to modern and postmodern aesthetics beginning with Kant. Marxist and feminist aesthetics will be especially emphasised. The artistic material will primarily come from the visual arts.

300790.1 Agriculture, Food and Health

Credit Points 10 **Level** 2

Assumed Knowledge

Basic understanding of resource sustainability issues

Incompatible Units

300609 - Ecology of Production

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This unit is designed to strengthen student understanding of the important interactions between food, agriculture, environment and health. Traditionally the topics of food, agriculture, environment and health have been taught mainly in isolation from each other. It is becoming increasingly apparent that this traditional approach bears little relevance to real world issues and in some cases acts as an impediment to progress. Alternatives to the current 'western industrialised' food production system will be

explored. These include organic agriculture, local farmer markets, and consumer driven changes to food production systems.

300852.1 Air Quality and Climate Change

Credit Points 10 **Level** 3

Equivalent Units

300777 - Air Quality and Climate Change, 300628 - Air Quality Management

Unit Enrolment Restrictions

Successful completion of 60 credit points at Level 1 and 40 credit points at Level 2. Students must wear enclosed footwear during field visit.

Special Requirements - Essential Equipment

Students must wear enclosed footwear during field visit.

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Deteriorating air quality and climate change are two major challenges facing humanity and threatening environmental sustainability and human health. As such, air quality and climate change are of International, National, State and local community concern. This unit critically analyses the many issues that relate to air pollution, including its nature, extent, impacts and monitoring. Students will examine an air pollution issue of their choice.

401306.1 Alternative and Augmentative Communication Systems

Credit Points 10 **Level** 4

Unit Enrolment Restrictions

Students must be enrolled in 4763 Bachelor of Speech Pathology or 4764 Bachelor of Speech Pathology (honours).

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The unit focuses on disability across the lifespan, assistive technology, multi-modal communication methods and Alternative & Augmentative Communication (AAC) systems. The scope covers aided and unaided AAC systems with intentional communication and assessment and intervention methods for people with complex communication needs and those who use AAC.

200811.4 Alternative Dispute Resolution

Credit Points 10 **Level** 2

Prerequisite

200977.1 Fundamentals of Australian Law

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Alternative Dispute Resolution (ADR) processes are no longer 'alternative' but a major part of the contemporary justice system. Modern legal practice requires lawyers to negotiate settlements on behalf of clients and advise clients how to resolve disputes without litigation. Non-adversarial processes offer many benefits to parties, professionals and the community. This unit will introduce you to the theory and practice of alternative dispute resolution processes and provide you with the opportunity to develop key ADR practice.

101570.2 Alternatives to Violence

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 80 credit points or unit 101573 Human Rights, Peace and Development.

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The key tenet of this unit is the belief that there are superior alternatives to violence for peace building. Holistic development (including socio-cultural, political, economic, governance, etc.) provides the best and most constructive alternatives to violence. The unit examines different alternatives to violence within the broader context of peace and development studies. Students will be equipped with theoretical approaches to alternatives to violence and an ability to evaluate and apply those alternatives in social development contexts.

100985.2 American Foreign Policy Since 1945

Credit Points 10 **Level** 3

Equivalent Units

B3845 - American Foreign Policy, 100907 - American Foreign Policy Since 1945

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit will analyse both the major international issues and crises which America confronted after 1945 and how successive American presidents and their policy makers responded to these problems

100966.3 American History, 1898-1945

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit offers a history of the United States of America from 1898 until 1945. It examines the key events and issues from the Spanish-American War to the New Deal and Isolationism which shaped the course of modern America.

401242.1 An Introduction to Contemporary Aboriginal Australia

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 80 credit points.

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit introduces the perspectives of Aboriginal people and communities and explores both diverse and unifying aspects of Aboriginal cultures. The unit is informed by a theoretical model of developing cultural competence - cultural knowledge, cultural awareness, cultural skills, cultural encounter and cultural desire (Campinha-Bacote, 2011). To maximize their learning, students will experience an 'on-country' field trip facilitated by Aboriginal Elders. The unit will interest anyone wishing to develop personal and organisational cultural competence related to Aboriginal Australia, extend their understanding of past and contemporary issues relating to Aboriginal people and communities and promote understanding of the intergenerational impacts of the past experiences of Aboriginal people and their communities.

200023.3 Analysis

Credit Points 10 **Level** 3

Prerequisite

200028.2 Advanced Calculus

Equivalent Units

14388 - Advanced Mathematical Topics

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Analysis provides the theoretical basis of real and complex numbers, including differentiation and integration. Topics include: field axioms and completeness, sequences, series, convergence, compactness, continuity, differentiability, integrability, and related theorems in both the real and complex number systems.

301098.1 Analysis of Agricultural Supply and Demand

Credit Points 10 **Level** 3

Assumed Knowledge

Students enrolling in this unit should have an understanding of basic statistics and a fundamental understanding of the consumer-driven nature of the economy. This unit will build on aspects of agri-food supply chains introduced in earlier units in the Bachelor of Sustainable Agriculture and Food Security program.

Equivalent Units

300534 - Analysis of Agricultural Supply Chains

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Students will develop understanding of the integrated nature of the agri-food value chain (supply and demand) from economic, environmental and social perspectives. Integrative processes and tools from established value chains will be evaluated in the context of changing consumer sentiment. Through analysis of economic and environmental gains (e.g. water and energy savings), students will identify emerging opportunities and challenges for improved and/or alternative food distribution systems. Analytical and reporting tools will be used to develop

competence in data management, with emphasis on increasing communication from consumer to producer.

300830.2 Analysis of Change

Credit Points 10 **Level** 1

Assumed Knowledge

General Mathematics background achieved at bands 5 or 6, or Mathematics, achieved at band 4, or equivalent or 300831 Quantitative Thinking.

Equivalent Units

200191 - Fundamentals of Mathematics; 700108 - Analysis of Change (WSTC)

Incompatible Units

300672 - Mathematics 1A

Unit Enrolment Restrictions

Students may complete the three units Quantitative Thinking, Analysis of Change and Maths 1A in the following order: 300831 Quantitative Thinking, 300830 Analysis of Change, 300672 Mathematics 1A. This means that students may complete 300831 before attempting 300830, but not after. 300830 and 300831 may be attempted before 300672, but not after. Students may not enrol in 300831 and 300830 or 300831 and 300672 or 300830 and 300672 in the same teaching session. Students enrolled in the Bachelor of Engineering (Honours), Bachelor of Engineering or Bachelor of Engineering Science may not enrol in any of the units 300830, 300831 or 300672.

Special Requirements - Essential Equipment

Scientific calculator, access to a computer with mathematical software packages eg Excel, Mathematica, MathCad installed.

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This Level 1 unit introduces students to the mathematical modelling techniques that are used to formulate and solve problems in the physical and biological sciences. To use these techniques successfully, students must develop the ability to formulate a problem mathematically and then be able to use the appropriate knowledge to test conclusions by analytical and numerical means. These skills will be emphasized as each technique is introduced. Apart from some introductory work on logarithms and exponentials (essential concepts in the sciences), the main techniques developed involve aspects of differential calculus, culminating in the use of differential equations to model real phenomena in the sciences.

101646.2 Analysis of Spatial Data

Credit Points 10 **Level** 2

Equivalent Units

400343 - Analysis of Spatial Data

Unit Enrolment Restrictions

Successful completion of 40 credit points.

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The making and the use of maps. This unit involves the critical examination of the way geographical data is produced, analysed, mapped and used to inform both private and public decisions. Natural environment, health,

accessibility and residential amenity are examples of phenomena that have an important geographical dimension. Policy responses to these phenomena need to be specific with regard to locations and places. Geographic information systems software and census will be used to produce maps based on the analysis and interpretation of data relating to the student's field of interest.

300832.1 Analytical Chemistry

Credit Points 10 **Level** 2

Prerequisite

300800.1 Essential Chemistry 1 OR **300808.2** Introductory Chemistry

Equivalent Units

300297 - Analytical Chemistry 2

Special Requirements - Essential Equipment

Lab Coat, enclosed shoes, protective glasses

.....

This unit provides insight into both classical methods of analytical analysis and an introduction to modern instrumental methods of analysis. Specifically, the classical methods of analysis include volumetric and gravimetric methods, while the modern instrumental methods include separation techniques and spectroscopy. The role of spreadsheets in data analysis and presentation is discussed and applied in the laboratory program.

300866.1 Analytical Microbiology

Credit Points 10 **Level** 3

Assumed Knowledge

A good general knowledge of microbiology and having the technical skills needed to work safely with microorganisms.

Prerequisite

300833.1 Microbiology 1

Equivalent Units

300307 - Analytical Microbiology

Special Requirements - Essential Equipment

Students are required to have laboratory coat, appropriate shoes and eye protection.

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The unit provides a theoretical and practical introduction to wide range of microbiological techniques that are commonly used in medical science, industrial and food microbiology, environmental science, and research. Building on a basic understanding of microbiology the unit shows how microorganisms can be isolated, identified, and enumerated using traditional microbiological methods, modern variations on traditional methods, and more recent immunological and molecular methods. The laboratory component is an integral component of the unit as the students use a variety of techniques, methods and commercial systems that are applied in microbiological laboratories, and incorporates problem solving and inquiry based exercises.

100846.2 Analytical Reading and Writing

Credit Points 10 **Level** 1

Equivalent Units

700131 - Analytical Reading and Writing (WSTC)

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This unit aims to develop and refine students' communication skills in analytical reading, writing, critical reasoning and the analysis of argument. It aims to develop students' understanding of how arguments are made, along with their ability to analyse and evaluate arguments, while at the same time developing students' capacity to make sophisticated arguments in essay form.

301107.1 Analytics Programming

Credit Points 10 **Level** 1

Assumed Knowledge

Familiarity with computer software programs such as Excel.

Special Requirements - Essential Equipment

Students require access to a computer.

.....

This unit covers the use of computers and computer programming for Data Science. After briefly considering spreadsheet systems, the unit will consider programming in the statistical system "R" in depth. Finally, other special purpose languages will be touched briefly (eg. SQL).

300897.2 Anatomy of the Head and Neck

Credit Points 10 **Level** 3

Prerequisite

300825.2 Introduction to Anatomy OR **301126.1** Concepts in Human Anatomy

Equivalent Units

300316 - Anatomy of the Head and Neck, 300750 - Anatomy of the Head and Neck

Unit Enrolment Restrictions

Students must be enrolled in 3577 Bachelor of Medical Science, 3657 Bachelor of Medical Science (Advanced), 3673 Bachelor of Medical Science, 3682 Bachelor of Medical Science (Advanced) or 6002 Diploma in Science/ Bachelor of Medical Science

Special Requirements - Essential Equipment

Students must also have a laboratory coat.

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This unit builds on the systems anatomy taught during the first year, offering a regional study of the human head & neck. Emphasis is placed on the identification and description of the structures, including the correlation of structure and function. Cadaveric specimens are used to aid the learning of these regions and their three-dimensional aspect, including the anatomical variation found in these regions.

300894.2 Anatomy of the Thorax and Abdomen

Credit Points 10 **Level** 2

Prerequisite

300825.2 Introduction to Anatomy OR **301126.1** Concepts in Human Anatomy

Equivalent Units

300317 - Anatomy of the Thorax and Abdomen, 300751 - Anatomy of the Thorax and Abdomen

Unit Enrolment Restrictions

Students must be enrolled in course code 3577 Bachelor of Medical Science, 3673 Bachelor of Medical Science, 3657 Bachelor of Medical Science/Bachelor of Information and Communications Technology, or 3682 Bachelor of Medical Science (Advanced), 3733 Bachelor of Medical Science (Forensic Mortuary Practice) or 6002 Diploma in Science/ Bachelor of Medical Science

Special Requirements - Essential Equipment

Students must have a lab coat and enclosed shoes.

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This unit builds on the systems anatomy studied during first year, and explores the regional anatomy of the contents and walls of the human thorax and abdominopelvic cavities. Emphasis is placed on the relationship between structures, and the nexus between form and function. Cadaveric specimens are used in this unit to illustrate the array of normal anatomical variation.

100244.2 Ancient Western Culture: Periclean Athens

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points in the students' current enrolled course

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The Athens of Pericles is studied from three perspectives: philosophy, politics, and history. The use of reason and rhetoric is examined through the works of some pre-Socratics, Sophists and Socrates. The focus on philosophy and politics will be placed in the context of the history of the city-state and democratic citizenship.

300878.1 Animal Behaviour

Credit Points 10 **Level** 3

Equivalent Units

300564 - Animal Behaviour

Unit Enrolment Restrictions

Successful completion of 120 credit points in the Bachelor of Science or Bachelor of Natural Sciences.

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Focusing on a variety of wildlife and domestic animal species, the unit addresses how classic ecological and evolutionary principles shape animal behaviour by weighing the experimental and observational evidence for each idea.

We illustrate concepts with examples from a wide range of taxonomic groups of animals in diverse ecosystems. Students will conduct experimental field and laboratory procedures, as well as observe and work with groups of animals on the UWS Hawkesbury campus.

300834.1 Animal Health and Welfare

Credit Points 10 **Level** 2

Prerequisite

300802.1 Biodiversity

Equivalent Units

300424 - Animal Health and Welfare

Special Requirements - Essential Equipment

Outdoor attire / Lab coats, enclosed footwear for indoor labs

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This unit will introduce students to the major issues related to animal health and welfare that form essential knowledge for those working with animals. In particular, students will gain an understanding of disease and methods for disease control as well as an introduction to disease diagnosis. In addition, students will gain knowledge about the relationships between animal management and the health and welfare expectations for domesticated and wild animals. The causes of common animal diseases will be introduced as well as the legal obligations of those owning, working or observing animals with respect to maintaining and monitoring their health and welfare.

300853.1 Animal Nutrition and Feeding

Credit Points 10 **Level** 3

Assumed Knowledge

A basic understanding of animals and biology.

Equivalent Units

300562 - Animal Nutrition and Feeding

Unit Enrolment Restrictions

Successful completion of 60 credit points.

Special Requirements - Essential Equipment

Lab coat, enclosed shoes, protective goggles

.....

Animal nutrition and feeding is fundamental to many aspects of animal production and wildlife systems. This unit aims to provide students with knowledge of nutrient requirements for different types of animals and the nutrient composition of common feeds. Students will evaluate and formulate rations to meet a range of animal requirements at different stages of growth, reproduction, lactation and production.

300854.1 Animal Production

Credit Points 10 **Level** 3

Equivalent Units

300427 - Animal Production

Unit Enrolment Restrictions

Successful completion of 120 credit points of Bachelor of Natural Science or Bachelor of Science units.

Special Requirements - Essential Equipment

Workboots and lab coat, safety glasses

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Animal production is about producing animals for food, companionship and conservation. This unit aims to develop an understanding of the major animal production systems used for food and fibre and other resources in Australia (intensive and wildlife), and to apply this knowledge to improving problematic issues and understanding topical issues. Topics will focus on the application of animal production principles to these production systems.

300835.1 Animal Reproduction

Credit Points 10 **Level** 2

Assumed Knowledge

Some knowledge of biology, including basic animal anatomy, introductory animal physiology and some understanding of reproductive behaviour.

Equivalent Units

AG306A - Equine Reproduction and Stud Management;
300563 - Animal Reproduction

Special Requirements - Essential Equipment

Lab coat, enclosed shoes

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Reproduction is the origin of life. The aim of this unit is to provide students with a sound understanding of reproduction of both domestic and non domestic animals so that they can design and manage a breeding program for a species of choice. Topics will include anatomy and physiology of male and female reproductive tracts; hormonal control of reproduction; fertilisation, pregnancy, parturition and lactation and advanced reproductive technologies. These topics will be explored in a range of species across different taxonomic groups.

300801.1 Animal Science

Credit Points 10 **Level** 1

Equivalent Units

300421 - Animal Science

Special Requirements - Essential Equipment

Laboratory coat, closed in shoes, safety glasses, work boots, long pants and long-sleeved shirts.

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This unit will provide students with an understanding of comparative physiological and anatomical concepts of a range of mammalian and avian species. Students will develop the skills to apply these concepts in practical situations through the use of field observations and the relationship of these to functional anatomy and physiology of production animals. In addition students will develop many of the principles and concepts employed in animal production. Concepts discussed in lectures are reinforced by practical classes held in the laboratory and in the outdoor laboratories.

102347.1 Anthropologies of the Everyday

Credit Points 10 **Level** 2

Prerequisite

102344.1 Different Ways of Being in the World: Introduction to Social Anthropology

The pre-requisite requirement does not apply to students in courses 1667 Bachelor of Social Science, 1733 Bachelor of Social Science (Advanced) and 6023 Diploma in Social Science/Bachelor of Social Science who are required to meet the Unit Enrolment Restriction below.

Unit Enrolment Restrictions

Students in courses 1667 Bachelor of Social Science, 1733 Bachelor of Social Science (Advanced) and 6023 Diploma in Social Science/Bachelor of Social Science must have successfully completed 40 credit points of Level 1 units.

Although people's lives vary significantly depending on ethnographic context, it is also through everyday practices and rituals that the universality of the human condition becomes most obvious. Close studies of how people create a living and make meaning of their everyday experiences in various contexts can thus provide valuable lessons about cultural difference as well as about what it means to be human, and is consequently a core aspect of anthropological inquiry. In this unit students engage with this overarching theme via ethnographic case studies as well as through inquiries into their own everyday lives.

300898.3 Appendicular Skeleton

Credit Points 10 **Level** 2

Prerequisite

300825.2 Introduction to Anatomy OR **301126.1** Concepts in Human Anatomy

Equivalent Units

300755 - The Appendicular Skeleton, 300325 - The Appendicular Skeleton

Incompatible Units

400881 - Functional Anatomy

Unit Enrolment Restrictions

Students must be enrolled in 3673 Bachelor of Medical Science, 3682 Bachelor of Medical Science (Advanced), 3733 Bachelor of Medical Science (Forensic Mortuary Practice) or 6002 Diploma in Science/Bachelor of Medical Science. Students must also have a laboratory coat in this unit.

Special Requirements - Essential Equipment

Students must have a laboratory coat.

This musculoskeletal unit builds on the basic anatomy taught during the first year, offering a regional study of the human upper and lower limbs, including their respective girdles. Emphasis is placed on the identification and description of the structures, including the correlation of structure and function. Cadaveric specimens are used to aid the learning of these regions and their three-

dimensional aspect, including the anatomical variation found in these regions.

301110.1 Applications of Big Data

Credit Points 10 **Level** 3

Assumed Knowledge

Knowledge of computer software, databases, and entry-level statistics.

Prerequisite

301107.1 Analytics Programming OR **300580.2** Programming Fundamentals

Many techniques and tools have been developed over the past decade to cope with the ever-growing needs for the processing and analysis of big data. This unit will cover the key techniques that have been widely used in big data applications, such as relational and Not Only Structured Query Language (NoSQL) databases, Web Services, parallel and cloud computing, MapReduce, Hadoop and its eco-system. It aims to introduce the emerging technologies and applications in big data to students, and keep up with the latest trends in the industry.

401203.1 Applications of Magnetic Resonance from Cancer to Neuroanatomy

Credit Points 10 **Level** 7

Magnetic resonance (MR) provides a suite of versatile information rich and non-invasive techniques of which magnetic resonance imaging (MRI), Magnetic Resonance Spectroscopy (MRS) and Nuclear Magnetic Resonance (NMR) spectroscopy are the best known. These techniques have enormous applications across the sciences (e.g., inorganic and organic chemistry) but increasingly to medicine (e.g., to cancer diagnosis and treatment). Western Sydney University has state-of-the-art MR infrastructure and an international reputation in MR development. This unit will explore the diverse applications and teach experimental practice and fundamental physical principles that underpin all the MR-based techniques. It is intended for medical science, medical and science students who use/intend to use NMR/MRI technology or merely want a deeper understanding of its rapidly expanding capabilities (e.g., functional MRI) and applications.

401147.1 Applied Biomechanics

Credit Points 10 **Level** 3

Assumed Knowledge

It is expected that students have the knowledge and skills associated with the prerequisite unit.

Prerequisite

401140.1 Biomechanics

Equivalent Units

400330 - Applied Biomechanics of Exercise, 400889 - Applied Biomechanics of Sport and Exercise

Unit Enrolment Restrictions

Students must be enrolled in 4658 - Bachelor of Health Science (Sport and Exercise Science).

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To fully understand the science underlying the optimisation of human movement, students require a comprehensive working knowledge of Biomechanics. This unit represents a theoretical and applied study of selected topics in Biomechanics. It builds on the basic principles of Biomechanics that are presented in the unit Biomechanics and applies this knowledge to the analysis of sporting and human exercise performance. To achieve this, advanced methods and concepts in the biomechanical analysis of human performance are identified and explored.

401056.2 Applied Exercise Science for Personal Trainers and Coaches

Credit Points 10 **Level** 3

Assumed Knowledge

An understanding of human biology and fundamental principles in exercise science.

Prerequisite

[300361.3](#) Introduction to Human Biology AND [400880.2](#) Fundamentals of Exercise Science

Unit Enrolment Restrictions

Students must be enrolled in 4659 Bachelor of Health Science (PDHPE), 4742 - Bachelor of Health Science (HPE) - Pathway to Teaching (Secondary), 4747 - Bachelor of Health Science (HPE) or 6001 Diploma in Health Science/Bachelor of Health Science (Health and Physical Education).

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Students will learn the functional anatomy, exercise physiology, physical fitness, motor development and exercise training content required to function as competent personal trainers and/or sports coaches. Students will also administer and undertake laboratory exercises designed to test and administer fitness programs for healthy individuals

300986.1 Applied Mechanics

Credit Points 10 **Level** 4

Assumed Knowledge

Student should have prior knowledge of strain, stress and deflection analysis of simple structures.

Prerequisite

[300732.2](#) Structural Analysis

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Applied mechanics deals with the mechanical responses of structural components under various loading and support conditions. This unit will introduce the theoretical foundations and solution methods for the stability and dynamic responses of beams, columns and plates and their associated applications in engineering practices.

102220.1 Applied Methods in Literary Studies and Creative Writing

Credit Points 20 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 1797 or 1831 Master of Arts in Literature and Creative Writing.

.....

This unit familiarises students with methods of pursuing and presenting research across the discipline of literary studies as well as with regard to the kinds of research required for undertaking creative writing. It further provides students with the opportunity to explore these methods in their own research or creative practice. The unit is comprised of specific training exercises, which will enable students to develop the research skills necessary to developing for their masters project.

300908.1 Applied Nutrition

Credit Points 10 **Level** 3

Assumed Knowledge

An understanding of human nutrition, food, the metabolism of micro- and macro-nutrients, nutritional needs in various contexts, the relationship between dietary intake and disease/health, and computer literacy.

Prerequisite

[300933.1](#) Nutrition and Health 1 AND [300934.1](#) Nutrition and Health 2

Equivalent Units

300653 - Applied Nutrition

.....

This unit builds on basic concepts in human nutrition and facilitates the study of nutrition needs across the lifecycle and for specific lifestyle and nutrition related diseases. This study will incorporate how to assess nutritional status (incorporating anthropometric, biochemical, clinical, dietary and physical activity assessment) of individuals and groups, understand the strengths and limitations of various methods, how to manipulate diets to ensure nutritional sufficiency and how to provide nutrition education regarding lifestyle related diseases and sports nutrition.

401146.1 Applied Physiology

Credit Points 10 **Level** 3

Assumed Knowledge

The knowledge and skills covered in the pre-requisite units. In addition students are expected to have a mathematical ability equal to a passing level in the BOSTES (NSW) numeracy test. See <http://www.boardofstudies.nsw.edu.au/rosa/literacy-and-numeracy-tests.html>. Students whose mathematical ability is not at this level or who have not used such mathematics recently are encouraged to seek assistance early through the Mathematics Educational resource Hub (MESH) <http://www.westernsydney.edu.au/mesh/mesh>.

Prerequisite

401143.1 Exercise Prescription I AND **400883.2** Exercise Bioenergetics AND **401142.1** Exercise Physiology

Equivalent Units

400329 - Sport Physiology, 400888 - Advanced Sport Physiology

Unit Enrolment Restrictions

Students must be enrolled in 4658 - Bachelor of Health Science (Sport and Exercise Science).

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This unit focuses on the application of exercise physiology in sporting and physically demanding occupation contexts. Concepts covered include: muscular fatigue, soreness & recovery, General Adaption Syndrome Theory, testing, training and periodisation in an individualised approach to the client. Students will develop skills to appropriately: select, justify perform and evaluate a number of laboratory, field and functional tests; analyse, interpret and communicate test results; prepare, justify, implement and evaluate individualised training and recovery plans (long and short term); incorporate other sport and exercise science sub-disciplines into plans and appropriately adjust plans for environmental challenges.

102222.1 Applied Practice in Literary Studies and Creative Writing

Credit Points 20 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 1797 or 1831 Master of Arts in Literature and Creative Writing.

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This unit familiarises students with the practice of pursuing and presenting research and methods in literature and related forms as well as with regard to the kinds of research required for undertaking creative work. It provides students with the opportunity to explore these methods in their own research and/or creative practice. This unit opens out into workshops in which students work through elements of the work they are developing for their masters project.

401167.1 Applied Research in Health Care

Credit Points 10 **Level** 7

Equivalent Units

400200 - Applied Nursing Research

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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Research is a necessary undertaking toward the continued development of nursing, midwifery and health science and practice. This unit prepares students for undertaking or participating in research in the clinical setting. It also seeks to prepare students to consider higher degree research opportunities. Students will explore the various theoretical underpinnings of research as well as develop a clear understanding of various research designs, data collection methods, sampling techniques and data analysis.

800215.1 Applied research with marginalised populations and sensitive health topics

Credit Points 10 **Level** 7

Assumed Knowledge

Students will need basic knowledge of research design/ approaches e.g. 800166 'Research Design 1: Theories of Enquiry' or 401076 'Introduction to Epidemiology' or 401080 'Research Protocol Design and Practice' or similar.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit will teach students practical knowledge and skills for conducting research with marginalised populations and on sensitive health topics. Students will learn ethical, methodological, and practical considerations in applied qualitative and mixed method research. Upon completion of the unit students will be able to develop a theoretically coherent qualitative or mixed method research protocol and justify their decision making at every stage of the research process. The skills developed in this unit will enable students to adapt research methods to ensure the integrity of the research process with marginalised populations and sensitive health topics.

200033.5 Applied Statistics

Credit Points 10 **Level** 2

Prerequisite

200032.5 Statistics for Business OR **300700.5** Statistical Decision Making OR **200263.4** Biometry OR **200052.4** Introduction to Economic Methods

Unit Enrolment Restrictions

Scientific calculator and access to a computer with appropriate software, using Minitab, Excel and SPSS.

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From 2016 this unit has been replaced by 301032 Making Sense of Data. The unit builds on the basic statistical concepts introduced in first year, and also prepares students for broader application of statistics for those majoring in science or business. Topics include some common probability distributions; revision of hypothesis testing; analysis of categorical data; analysis of variance; simple and multiple linear regression analysis and correlation; some nonparametric methods; and fundamentals of time-series analysis.

400867.2 Approaches to Health Promotion

Credit Points 10 **Level** 2

Equivalent Units

400782 - Essentials of Health Promotion, 700065 - Approaches to Health Promotion (WSTC)

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Health promotion is a process that seeks to enable individuals, carers, communities and populations to increase control over their health. It does so by addressing the determinants of health and equity issues, leading to

improved health outcomes. Theoretical underpinnings of the various approaches to health promotion are explored in this unit. In addition, factors that enhance and limit health promotion are analysed in conjunction with bigger picture approaches of working with policy. The best evidence-based practice for health promotion is outlined together with the need to move beyond education.

700065.3 Approaches to Health Promotion (WSTC)

Credit Points 10 **Level** 2

Equivalent Units

400867 - Approaches to Health Promotion

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diploma courses must have passed 40 credit points of preparatory units in order to enrol in this unit.

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Health promotion is a process that seeks to enable individuals, carers, communities and populations to increase control over their health. It does so by addressing the determinants of health and equity issues, leading to improved health outcomes. Theoretical underpinnings of the various approaches to health promotion are explored in this unit. In addition, factors that enhance and limit health promotion are analysed in conjunction with bigger picture approaches of working with policy. The best evidence-based practice for health promotion is outlined together with the need to move beyond education.

401007.2 Approaches to Professional Nursing Practice

Credit Points 10 **Level** 1

Assumed Knowledge

Foundational knowledge of primary health care, professional communication and nursing skills.

Incompatible Units

400748 - Becoming a Nurse; 400752 - Knowing Nursing

Unit Enrolment Restrictions

Students must be enrolled in 4691 Bachelor of Nursing or 4693 Bachelor of Nursing (Advanced).

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit explores the nature and professional context of nursing. The roles and functions of the nurse and their relationship to others are considered in terms of expected competence, responsibilities, accountabilities and scope of practice.

100641.3 Approaches to Text

Credit Points 10 **Level** 1

Equivalent Units

63165 - Approaches to Text, 700136 - Approaches to Text (WSTC)

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Why do we read books? Reading literary texts is crucial to our ways of understanding the world and ourselves. In this unit students learn that reading resilience, close reading skills and the ability to identify specific literary techniques are foundational to studying literature. Students will read a range of Australian texts including fiction, poetry, short stories, drama and criticism. They will analyse how meanings in those texts are shaped by diverse cultural and international contexts. This unit builds reading capacity while engaging students in key debates about literature today: what it means, how it works, and why it matters.

300655.2 Approved Industrial Experience

Credit Points 0 **Level** 2

Equivalent Units

SC204A - Approved Industrial Experience, EH218A - Approved Industrial Experience

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This is a "Work Experience" unit, for which no student contribution fee is charged, nor will it consume Student Learning Entitlement (SLE). Students are required to obtain at least ten weeks, vocationally relevant, industrial experience during their course of study. The aim of this is to provide students with opportunities to apply theoretical concepts to real world situations, assisting their personal and professional development. Approved industrial experience aims to provide flexibility for students to pursue areas of interest and to assist in their selection of appropriate elective units in their course and to meet the professional accreditation requirements as maybe required in your key program. Students are required to organise, formalise and validate at least ten weeks of university approved industry experience within an industrial, commercial or government situation during the course of their study.

300929.1 Aquatic Ecology

Credit Points 10 **Level** 3

Assumed Knowledge

Concepts of classification, evolution, taxonomy, cellular processes plant and animal structure and function, normal distribution, representative sampling, probability and uncertainty.

Equivalent Units

300465 - Aquatic Ecology, 300978 Marine and Aquatic Ecology

Unit Enrolment Restrictions

Successful completion of 80 Credit Points at Level 1 and 40 credit points at Level 2.

Special Requirements - Essential Equipment

Students must have covered footwear for field excursions.

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Temperate freshwater, estuarine and marine aquatic ecosystems play vital roles in providing food, water, recreation and other ecosystem services to human society and habitats for important species that make up global biodiversity. Yet aquatic habitats are the most threatened ecosystems on earth, under threat from global climate change and urbanisation. Through inquiry and problem solving this unit will equip students with the necessary techniques in experimental design and analysis needed to investigate aquatic ecosystems and knowledge of the main animal and plants in aquatic and marine ecosystems. The logic and philosophy of science, scientific studies and experimental analyses will be used to understand temperate aquatic ecosystems throughout this unit. On completion students will have the background knowledge and skills communicate to a range of audiences, so that they can contribute beneficially to management and/or conservation of waterways and oceans and the biodiversity within.

400895.2 Aquatic Sports

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Students must be enrolled in 4659 Bachelor of Health Science (PDHPE).

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From 2016, this unit is replaced by 400866 - Motor Control and Skill. Students will actively engage in a variety of aquatic activities including rowing, canoeing, kayaking, diving, water polo and swimming. Through participation in practical tutorials, students will develop their ability to teach and coach each of the aforementioned aquatic activities in a school or community recreation setting. Students will also train in swimming to improve stroke mechanics and fitness. This will form part of the Bronze Medallion Lifesaving certification, which involves developing competencies in resuscitation, four strokes of swimming, personal survival and rescue skills.

100041.2 Arabic 101

Credit Points 10 **Level** 1

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This unit is designed as an introduction to the Arabic language as well as the contemporary and popular culture of the Arabic-speaking people. It is intended for students who are at beginner level in Modern Standard Arabic in all four skills -listening, speaking, reading and writing. Components of this unit may be presented in English. Students with a background of study in the language need to obtain advice on their appropriate level of language study. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher class. Students should consult the Languages Academic Course Advisor or Unit Coordinator if they are unsure of their entry level.

100042.2 Arabic 102

Credit Points 10 **Level** 1

Assumed Knowledge

100041 Arabic 101 or equivalent knowledge

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This is a post beginner level unit in Arabic building on the knowledge and skills developed in Arabic 101. It aims to further develop listening, speaking, reading and writing skills in elementary Arabic. The unit includes a socio-cultural component which will examine aspects of the contemporary Arab world and its culture with a particular emphasis on the Arabic-speaking community in Australia. Students with a background of study in the language need to obtain advice on their appropriate level of language study. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher class. Students should consult the Languages Academic Course Advisor or Unit Coordinator if they are unsure of their entry level.

102019.1 Arabic 201

Credit Points 10 **Level** 2

Assumed Knowledge

100042 - Arabic 102 or equivalent knowledge

Equivalent Units

101699 - Language and Communication Skills 2A: Arabic

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This is an intermediate level unit in Arabic intended for two groups of students: (a) students of English speaking backgrounds or other language backgrounds who have achieved a degree of competence in the language at least at the HSC Level; and (b) Arabic language background students whose education has been in English as the medium of instruction in all subjects other than Arabic and who, therefore, have some gaps in their knowledge of Arabic, particularly in situations requiring a more formal language register. The unit is designed to consolidate and advance the acquisition of Modern Standard Arabic for post beginner learners of the language. While consolidating language skills, students will also develop further knowledge of the Arab culture. A range of DELL (Digitally Enhanced Language Learning) activities are utilised as part of the blended learning mode of delivery for this unit. NOTE: Students enrolling in this unit as part of a major or sub major in Arabic must enrol in Arabic 202 at the same time. Students with a background of study in the language may need to take higher level units. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher class. Students should consult the Languages Academic Course Advisor or Unit Coordinator if they are unsure of their appropriate level.

102020.1 Arabic 202

Credit Points 10 **Level** 2

Assumed Knowledge

100042 Arabic 102 or equivalent knowledge

Equivalent Units

101699 - Language and Communication Skills 2A: Arabic

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This unit further develops students' language skills acquired in Arabic 201 to equip students with more sophisticated language skills and knowledge. It aims to extend learners' skills within a range of topics and to cover basic structural aspects of the language, at a post-beginner level. A range of DELL (Digitally Enhanced Language Learning) activities are utilised as part of the blended learning mode of delivery for this unit. NOTE: Students enrolling in this unit as part of a major or sub major in Arabic must enrol in Arabic 201 at the same time. Students with a background of study in the language may need to take higher level units. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher class. Students should consult the Languages Academic Course Advisor or Unit Coordinator if they are unsure of their appropriate level.

102021.1 Arabic 203

Credit Points 10 **Level** 2

Assumed Knowledge

Arabic 102 or equivalent knowledge

Equivalent Units

101704 - Language and Communication Skills 2B: Arabic

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This is one of the components of the Arabic major and sub-major. It assumes an intermediate level of competence in the language. It aims to extend (intermediate) learners' skills with a particular focus on listening, speaking and oral interaction in Arabic, in a range of situations, by exposing students to realistic interactions, including the Arabic-Australian community. The unit also aims to extend the learners' lexicon and structures, particularly those used in talking about current personal experiences as well as events, and popular Arab personalities. A range of DELL (Digitally Enhanced Language Learning) activities are utilised as part of the blended learning mode of delivery for this unit. NOTE: Students enrolling in this unit as part of a major or sub major in Arabic must enrol in Arabic 204 at the same time. Students with a background of study in the language may need to take higher level units. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher class. Students should consult the Languages Academic Course Advisor or Unit Coordinator if they are unsure of their appropriate level.

102022.1 Arabic 204

Credit Points 10 **Level** 2

Assumed Knowledge

Arabic 201/202 or equivalent knowledge

Equivalent Units

101704 - Language and Communication Skills 2B: Arabic

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This is an intermediate unit in the Arabic major or sub-major. It provides an extension and consolidation of reading

comprehension, and writing skills, as well as lexical enrichment in Modern Standard Arabic, particularly its range of written registers and their linguistic characteristics. The content for reading and writing activities will be selected from newspapers, magazines, short stories and other printed media. NOTE: Students enrolling in this unit as part of a major or sub-major in Arabic must enrol in Arabic 203 at the same time. Students with a background of study in the language may need to take higher level units. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher class. Students should consult the Languages Academic Course Advisor or Unit Coordinator if they are unsure of their appropriate level.

101949.2 Arabic 301

Credit Points 10 **Level** 3

Assumed Knowledge

All level 2 Arabic units or equivalent knowledge.

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This is the first of a series of two units that aim to provide a thorough review of comprehension, speaking, reading and writing skills, as well as grammar and vocabulary of Modern Standard Arabic, its range of registers and its linguistic characteristics. This unit is intended for students who have knowledge and skills in Arabic equivalent to two years of tertiary education in the language and who wish to consolidate, develop and improve these skills. A range of DELL (Digitally Enhanced Language Learning) Activities are utilised as part of the Blended Learning mode of delivery for this unit.

100048.2 Arabic 302 - Arabic Advanced Language and Grammar

Credit Points 10 **Level** 3

Assumed Knowledge

Arabic 301 or equivalent

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This is the second of a series of two units that aim to provide a thorough and more advanced review of comprehension, speaking, reading and writing skills, as well as grammar and vocabulary of modern Standard Arabic, its range of registers and its linguistic characteristics. This unit is intended for students who have knowledge and skills in Arabic equivalent to Arabic 301 and who wish to consolidate, develop and improve these skills. This unit is mandatory for students who wish to pursue a specialisation in Arabic.

100049.2 Arabic 303: Advanced Writing Skills

Credit Points 10 **Level** 3

Assumed Knowledge

Assumed knowledge: Arabic 204 or equivalent knowledge.

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This unit is aimed at those who have successfully finished 100044 - Arabic 202, or have an advanced speaking and writing proficiency in Modern Standard Arabic. It is one of

the obligatory units for students intending to graduate with Arabic as a major or sub-major. It seeks to develop the writing skills to prepare students to make professional use of the language, and it is particularly recommended for those who wish to involve themselves in areas such as language teaching and translation. Students will be introduced to a full range of text types and language purposes. They will be guided to analyse, interpret and evaluate passages provided, and will be encouraged to extend their ability by experimenting with a variety of writing styles.

100050.2 Arabic 304: Arabic Advanced Speaking

Credit Points 10 **Level** 3

Assumed Knowledge

Arabic 204 or equivalent knowledge

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This is an advanced Arabic unit for students undertaking a major in Arabic or the Bachelor of Arts (Interpreting & Translation) (Arabic stream). As a companion unit of Arabic 303 (Advanced Writing Skills), it aims at preparing students to make a professional use of the language, in this case by placing particular emphasis on oral skills, and it is also specially recommended for those wishing to pursue careers in areas such as language teaching, interpreting and translation. Students will be introduced to a full range of oral text types and language purposes. They will be guided to analyse, interpret and evaluate examples of oral discourse, and be encouraged to develop effective public speaking skills.

100052.2 Arabic 306: Arabic Novel and Short Story

Credit Points 10 **Level** 3

Assumed Knowledge

Arabic 204 or equivalent

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This is an optional unit in the Arabic major program, which aims to introduce students to the study of the Arabic novel and short story, and which examines the historical, political, social and cultural context that this literature reflects. This will be done by studying selected novels and short stories. Students will be able to do a research component on a novel of their choice. This unit will also examine children's literature, including traditional children stories and contemporary Arabic literature, as well as translated western traditional stories.

100054.2 Arabic 308: Language Past and Present

Credit Points 10 **Level** 3

Assumed Knowledge

Assumed knowledge Arabic 204 or equivalent knowledge

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This unit aims to give students an understanding of the phonological, morpho-syntactic, semantic and pragmatic changes that have occurred to the Arabic language both

spoken and written in the last century. Particular attention will be paid to the different dialects spoken in some of the Arab countries and their relation to Modern Standard Arabic. A special study will be made of the Australian Arabic used by migrant communities.

301197.1 Architecture Studio - Fundamentals of Analogue Design

Credit Points 20 **Level** 2

Unit Enrolment Restrictions

Students must be enrolled in 3753 Bachelor of Architectural Design. Students not enrolled in 3753 who wish to enrol into this unit should have a 5.0 minimum GPA and are required to discuss with the Academic Course Advisor.

Special Requirements - Essential Equipment

Drawing and model making supplies (pencils, pens, hardcover sketchbook, architectural scale ruler). A full list will be issued during orientation. A personal laptop is recommended for students who undertake the full 6 semester degree sequence to facilitate their studies (512MB hard drive, 8GB RAM, high quality graphics processor) – specifications will be issued during orientation. Each semester will require students to purchase consumables such as paper, card, plastic, plywood, adhesives, blades, and other essential materials required for assessment tasks.

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This unit will introduce students to fundamentals of spatial composition as it relates to visual and temporal experience in architectural contexts. Project-based assessments will involve the creation of 2D and 3D compositions that explore traditional organisational strategies, classical principles of geometry, materiality, experiential phenomena, and representation. Students will work with analogue and traditional tools including freehand drawing and conventional shop equipment. The unit will also provide an introduction to the history, theory, and discourse of architecture from 4000BC to the Enlightenment.

301198.1 Architecture Studio - Fundamentals of Digital Design

Credit Points 20 **Level** 2

Unit Enrolment Restrictions

Must be enrolled in 3753 Bachelor of Architectural Design. Students not enrolled in 3753 who wish to enrol into this unit should have a 5.0 minimum GPA and are required to discuss with the Academic Course Advisor.

Special Requirements - Essential Equipment

Drawing and model making supplies (pencils, pens, hardcover sketchbook, architectural scale ruler). A full list will be issued during orientation. A personal laptop is recommended for students who undertake the full 6 semester degree sequence to facilitate their studies (512MB hard drive, 8GB RAM, high quality graphics processor) – specifications will be issued during orientation. Each semester will require students to purchase consumables such as paper, card, plastic, plywood, adhesives, blades, and other essential materials required for assessment tasks.

This unit will introduce students to fundamentals of spatial organisation and human experience in the built environment. Principles of making will be practiced and analysed for their relationship to architectural outcomes, the study of Modern organisational strategies, materiality, experiential phenomena, and abstraction. Project-based assessments will involve an iterative process of reflection and refinement, using digital techniques of 3d design including NURBS modelling and rapid prototyping to explore architectural concepts. The unit will also provide an introduction to the history, theory, and discourse of architecture from the Industrial Revolution to the Present.

301201.1 Architecture Studio - Global Cities

Credit Points 20 **Level** 3

Prerequisite

301199.1 Architecture Studio - Rethinking the Sub-urban AND **301200.1** Architecture Studio - Rethinking Urbanism

Unit Enrolment Restrictions

Must be enrolled in 3753 Bachelor of Architectural Design. Students not enrolled in 3753 who wish to enrol into this unit should have a 5.0 minimum GPA and are required to discuss with the Academic Course Advisor.

Special Requirements - Essential Equipment

Students are required to purchase consumables such as paper, card, plastic, plywood, adhesives, blades, and other essential materials for assessment tasks.

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This unit will situate learning in the context of the Global City. Projects will be used to investigate scenarios that are common to the contemporary condition of the developing world and the expanding metropolis in various international contexts. Students will either travel to international sites, work with international partners, or work remotely on problems beyond the Australian context. Work integrated learning will be a key feature of the Global Cities studio and will involve relevant members of the professional community to help lead studio investigations. Assessments will include complex urban projects at a large scale, developed using the design, communications, technical, and theoretical studies that have underpinned their education. Assessments will be project-based in real world scenarios and will incorporate sustainable strategies of design. Studies will be supplemented by tuition in structural design and will also be informed by concurrent studies in building science.

301199.1 Architecture Studio - Rethinking the Sub-urban

Credit Points 20 **Level** 3

Prerequisite

301197.1 Architecture Studio - Fundamentals of Analogue Design AND **301198.1** Architecture Studio - Fundamentals of Digital Design

Unit Enrolment Restrictions

Must be enrolled in 3753 Bachelor of Architectural Design. Students not enrolled in 3753 who wish to enrol into this unit should have a 5.0 minimum GPA and are required to discuss with the Academic Course Advisor.

Special Requirements - Essential Equipment

Students are required to purchase consumables such as paper, card, plastic, plywood, adhesives, blades, and other essential materials for assessment tasks.

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This unit will introduce the concept of Sub-urban Transformation, where the architect is an agent of progress and change in the built environment. Students will learn to use architectural design techniques as a medium for speculation and advocacy in the public realm and in daily life of the city. Rethinking the Sub-urban will investigate domesticity at the scale of residential projects and communities. Students will be concurrently trained in the use of Building Information Modelling (BIM) as a means to develop project work and collaborate as they explore new ways of building the suburban fabric. Assessments will be project-based in real world scenarios and will incorporate sustainable strategies of design.

301200.1 Architecture Studio - Rethinking Urbanism

Credit Points 20 **Level** 3

Prerequisite

301197.1 Architecture Studio - Fundamentals of Analogue Design AND **301198.1** Architecture Studio - Fundamentals of Digital Design

Unit Enrolment Restrictions

Must be enrolled in 3753 Bachelor of Architectural Design. Students not enrolled in 3753 who wish to enrol into this unit should have a 5.0 minimum GPA and are required to discuss with the Academic Course Advisor.

Special Requirements - Essential Equipment

Students are required to purchase consumables such as paper, card, plastic, plywood, adhesives, blades, and other essential materials for assessment tasks.

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This unit will extend the concept of Urban Transformation, where the architect is an agent of progress and change in the built environment. Students will refine their use of architectural design as a medium for speculation and advocacy in the public realm and in daily life of the city. Rethinking Urbanism will investigate architecture and civic space at the scale of public projects. Students will be concurrently trained in the use of parametric modelling software for communication and experimentation with new ways of building the urban fabric. Assessments will be project-based in real world scenarios and will incorporate sustainable strategies of design.

301202.1 Architecture Studio - The Infrastructural

Credit Points 20 **Level** 3

Prerequisite

301199.1 Architecture Studio - Rethinking the Sub-urban AND **301200.1** Architecture Studio - Rethinking Urbanism

Unit Enrolment Restrictions

Must be enrolled in 3753 Bachelor of Architectural Design. Students not enrolled in 3753 who wish to enrol into this

unit should have a 5.0 minimum GPA and are required to discuss with the Academic Course Advisor.

Special Requirements - Essential Equipment

Students are required to purchase consumables such as paper, card, plastic, plywood, adhesives, blades, and other essential materials for assessment tasks.

This unit will situate learning in the context of the major urban public projects that sit at the intersection of architecture, infrastructure, and urban design. Projects will be used to investigate scenarios that are common to the contemporary condition of major cities undergoing pressure of population growth, climate change, or other significant demographic, economic, political, or ecological transformations. Work integrated learning will be a key feature of the Rethinking Infrastructure studio and will involve relevant members of the professional community to help lead studio investigations and/or embed students in professional practices. Projects will include architectural responses to complex urban and infrastructural projects at a large scale – such as transit oriented development, high-rise, high density housing, the airport city, highway space, drones and autonomous vehicles, landscape urbanism, the architecture of transport, or similar - developed using the design, communications, technical, and theoretical studies that have underpinned their education. Assessments will be project-based in real world scenarios and will incorporate sustainable strategies of design. Studies will be supplemented by tuition in professional practice with an emphasis upon advocacy, entrepreneurship, and professional readiness.

301174.1 Artificial Intelligence

Credit Points 10 **Level** 3

Assumed Knowledge

Basic understanding of data structures and algorithms and basic programming skills in Pascal C/C++ or Java etc

Prerequisite

200025.2 Discrete Mathematics AND **300103.3** Data Structures and Algorithms

Equivalent Units

300387 Artificial Intelligence; 300137 Knowledge Based Systems; 300368 Intelligent Systems

This unit provides basic studies in the major areas of artificial intelligence: search, knowledge representation, logic programming, machine learning and knowledge based systems, agent planning and learning. The first part of this unit will focus on the foundation of artificial intelligence: search algorithms and their implementations, game playing, logics and knowledge representation, and inference in reasoning systems. The second part will cover the principles of knowledge based systems (intelligent systems), planning, and machine learning.

101442.2 Asia in the World

Credit Points 10 **Level** 1

Equivalent Units

100867 - Foundations of Asia

This unit introduces Asian societies, cultures, religions, and histories. Considering both traditional and contemporary times, it seeks to place Asia's diverse cultures in a global context. It examines issues such as how to define Asia, how Asian states related to each other, and how Western ideas of international relations have transformed these relations. The unit considers how the great religions/philosophies of Asian societies - Buddhism, Hinduism, Islam, Christianity and Confucianism - have influenced Asian states and relations between them. It explores other forces which have shaped the civilisations, politics and communities of Asia and how they have related to each other and the world beyond.

300916.2 Astroinformatics

Credit Points 10 **Level** 3

Prerequisite

300580.2 Programming Fundamentals

Modern astronomy is strongly driven by large datasets, which require advanced computing procedures to analyse. Students will learn about the science of stars, planets and galaxies; the use of computers in science; and how to formulate and solve challenging problems in modern science using high-level computer skills. These skills are highly transferable to other occupations.

102165.1 At the cultural interface - learning two ways

Credit Points 10 **Level** 7

History, politics and ignorance make the cultural interface between Aboriginal and non-Aboriginal Australians contested and fraught. In turn, cultural misunderstanding contributes to inequities in educational attainment, employment and social disadvantage. Students apply a critical perspective to the discourses surrounding Aboriginal disadvantage and white privilege. They develop processes to engage respectfully with local Aboriginal and Islander communities in order to learn and share in a two-way exchange of knowledge. They listen deeply and intersubjectively in their exploration of Aboriginal worldviews, and they reflect on what it means to decolonise their own thinking so as to build partnerships based on mutuality and reciprocity.

200535.2 Auditing and Assurance Services

Credit Points 10 **Level** 3

Assumed Knowledge

A basic knowledge of computing.

Prerequisite

200109.4 Corporate Accounting Systems

Equivalent Units

AC301A - Auditing, 61151 - Principles of Auditing, 200107 - Auditing Principles

Incompatible Units

61152 - Auditing & Professional Practice

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This unit studies the roles and responsibilities of the auditor, auditing principles and standards and the application of those standards, particularly in an electronic environment.

100958.2 Australia and the World

Credit Points 10 **Level** 1

Equivalent Units

700130 - Australia and the World (WSTC)

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An appreciation of Australia's history, political structures and relationships with the world is essential for an informed graduate. The unit introduces students to the patterns of human settlement of the continent before and after 1788 beginning with the distinctive culture of the indigenous people of Australia. From an understanding of a worldwide process of colonisation, the origins of Australia's social and political systems are described through Australia's development as part of British colonisation and decolonisation. The unit explores Australia's engagement with Asia and its historical and contemporary relations with Japan, China, Indonesia, the United States, Great Britain, New Zealand and the Pacific.

102210.1 Australia-Asia Education

Credit Points 10 **Level** 3

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This unit aims to examine knowledge of Asia in Australian schools; to explore ways of strengthening Australia-Asia people-to-people and institutional relationships; and, to identify ways in which connections in the Asia can link to teachers and school students' work readiness and career opportunities. By employing transformational pedagogies, including post-monolingual learning to encourage a genuine two-way flow of knowledge between Australia and the Asian region, this unit will investigate ways in which Australia's teachers can deepen relationships with the region.

102004.1 Australian Colonial History

Credit Points 10 **Level** 3

Equivalent Units

100868 - Foundations of Modern Australia, 100986 - Australian History 1860-1920.

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit introduces students to the 18th and 19th century foundations of modern Australia, and to the social, economic, political and cultural events that shaped Australian history. Students will be encouraged to consider the process of historical change within an historiographical framework and will use primary sources to explore some of

these debates. Some of the themes explored will be colonisation, convictism, class, urbanisation, gender, land, indigenous society, culture and political developments leading to the federation of the Australian colonies in 1901.

102516.1 Australian History Around Us

Credit Points 10 **Level** 3

Equivalent Units

100254 - Exploring Local History

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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Historians are detectives, searching for clues and unravelling the puzzles of the past. A walk down your local street holds many clues about the history of a local area – from the name of the street, the architecture of the buildings, the trees planted by the road, even the new building that indicates a recent change. Local studies are used as the foundation for socio-economic studies across many disciplines while an understanding of local history contributes to establishing personal and community identities. In this unit students will learn research skills to uncover the lives of people from the past, re-imagine familiar places and consider events long forgotten that happened in the streets of their suburbs. The final assignment is a chance to turn these discoveries into a new history for their community.

101872.1 Australian Indigenous History from Federation to Reconciliation

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit aims to explore the history of the relationship between Indigenous and non-Indigenous Australians from Federation (1901) to the present. At the beginning of the twentieth century, Australia became a nation without paying much attention to the first Australians. It was widely assumed that they would die out or at least remain an insignificant welfare problem. Instead, these first Australians survived and grew as a minority population; they also increasingly made themselves heard as a people - so successfully that in 2008 the Parliament of Australia felt obliged formally to apologise for their years of mistreatment. This unit highlights two stories: the non-Indigenous transition from complacency to engagement, and the survival and increasing political effectiveness of the descendants of Australia's first peoples.

101919.1 Australian Indigenous History: From first contact to 'dying race'

Credit Points 10 **Level** 3

Equivalent Units

101685 - Australian Indigenous History

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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Until 1788, Australia was peopled by those who we now call Aborigines. Then Europeans arrived and began to spread across the continent, displacing and marginalising the Aborigines. This unit will tell the stories of that transformation, beginning with an account of the ideas and motivations of British authority in the late eighteenth century and concluding at the moment when six British colonies formed a federated nation. Topics to be covered will include: violence, humanitarianism, Christian missions, institutional authority. The course will emphasise and explain regional and temporal differences in the ways that Indigenous and non-Indigenous interacted. Students will study primary sources and learn to understand them in context.

101973.1 Australian Politics

Credit Points 10 **Level** 2

Equivalent Units

63284 - Australian politics, 100266 - Introduction to Australian Politics, 100848 - Australian Politics

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

.....

This unit provides an introduction to Australian Politics. It outlines the central features of the federal political system with attention to both historical background and current debates. In addition to study of the institutional frameworks (the Constitution, parliament, political parties and so on), the unit examines the dynamics of inclusion and exclusion that have shaped Australian politics. It explores what it has meant in the past, what it means in the future, for Australians to live together as members of a political community.

100849.4 Australian Textual Studies

Credit Points 10 **Level** 3

Equivalent Units

63233 - Australian Textual Studies, B3858 - Australian Authors: Special Study, B3856 - Australian Literature: The City and The Bush

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

.....

This unit aims to increase students' knowledge of the scope and variety of Australian writing. It examines a range of Australian texts from a number of contexts, usually organised along historical and/or thematic lines, and considers the role of writing both "high" literature and more popular forms in constructions of Australian culture. Issues of place, gender and race may be foregrounded, and consideration given to how these influence images of

Australia. Film and television texts may also be included or emphasised.

300735.2 Automated Manufacturing

Credit Points 10 **Level** 2

Prerequisite

Students must have passed the two units 200237 Mathematics for Engineers 1 and 300463 Fundamentals of Mechanics OR must have passed the two units 200191 Fundamentals of Mathematics and 300304 Sustainable Design: Materials Technology before they can enrol in this unit.

Equivalent Units

86301 - Automated Manufacturing

.....

The aim of this unit is to provide an introduction into the fundamentals of manufacturing operations, automation and control technologies including numerical control and industrial robotics. In addition, material handling and identification technologies will be discussed as well as manufacturing systems. The latter will examine single-station manufacturing cells, manual assembly lines, automated production and assembly lines as well as flexible manufacturing systems. Mechanical behaviour of common materials used in manufacturing will be studied, and their suitability for various manufacturing processes including metal cutting, sheet-metal forming, bulk deformation and abrasion. Other processes such as rapid prototyping and rapid tooling will also be included.

200818.1 Bank Management

Credit Points 10 **Level** 3

Assumed Knowledge

Students who have completed the unit Corporate Financial Management or equivalent will find this unit more manageable.

.....

Bank Management provides students with an understanding of modern banking by identifying the main types of risk confronted by banks and applying relevant techniques to measure and manage those risks. Students will recognise that the risks faced, and the methods and markets through which these risks are managed, are similar for the managers of other types of financial institutions such as building societies, investment banks and insurance companies as well as, to some extent, non-financial corporates. Consequently, the unit will prepare students for careers throughout the financial services sector and will also be beneficial for other business professionals.

401027.2 Being a Professional Nurse (Advanced)

Credit Points 10 **Level** 3

Assumed Knowledge

Primary health care principles; professional communication; roles and responsibilities of the Registered Nurse; ethical and legal frameworks for practice, critical thinking and problem-solving skills.

Units

Corequisite

401020.1 Professional Practice Experience 6

Unit Enrolment Restrictions

Students must be enrolled in 4693 Bachelor of Nursing (Advanced).

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

.....

This unit explores the process of transition from student to professional practitioner. Students undertaking the BN Advanced course will gain a critical understanding of the congruence between the provision of health care and professional regulatory frameworks. The role of the graduate nurse will be explored through a detailed examination of case studies that apply relevant nursing theory to professional practice. This unit will build capacity in students to meet their professional responsibilities as new graduate practitioners in nursing. Students will also have the opportunity to discuss career planning and set priorities for ongoing professional development.

401021.3 Being a Professional Nurse or Midwife

Credit Points 10 **Level** 3

Assumed Knowledge

Primary health care principles, professional communication, roles and responsibilities of the Registered Nurse or Midwife, ethical and legal frameworks for practice.

Unit Enrolment Restrictions

Students must be enrolled in 4691 Bachelor of Nursing, 4692 Bachelor of Nursing Graduate Entry or 4684 Bachelor of Midwifery.

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

.....

This unit explores the process of transition from student to professional practitioner. Students will gain an understanding of the congruence between the provision of health care and professional regulatory frameworks. The role of the graduate nurse or midwife will be explored through a detailed examination of case studies that apply relevant nursing theory to professional practice. This unit will build capacity in students to meet their professional responsibilities as capable practitioners in nursing or midwifery. Students will also have the opportunity to

discuss career planning and set priorities for ongoing professional development.

101449.2 Bilingualism and Biculturalism

Credit Points 10 **Level** 3

Equivalent Units

A2014 - Bilingualism and Biculturalism

.....

Bilingualism and biculturalism are important aspects of life in Australia: many Australian residents are, were, or could be, bilingual and/or bicultural. This unit aims to give students an understanding and appreciation of the most important facets and manifestations of bilingualism and biculturalism, in the linguistic, cognitive, personal, societal and educational spheres, particularly with regard to the Australian context. It also aims to show students how this unit relates to broader studies in education, humanities, linguistics, and social sciences.

102525.1 Bilingualism and Education

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

.....

Bilingualism and Biculturalism are important aspects of life in Australia. Throughout much of the world, bi-multilingualism is the norm for both children and adults. This unit aims to give students an understanding and appreciation of the most important facets and manifestations of bi-multilingualism and bi-multiculturalism, in the linguistic, cognitive, personal, societal and educational spheres. It also aims to show students how this unit relates to broader studies in education, humanities, linguistics, and social sciences. This unit equips students with current research theories and methods in working effectively in early childhood and primary education, language teaching and other workplaces in bi-multilingual and bi-multicultural contexts.

300802.1 Biodiversity

Credit Points 10 **Level** 1

Assumed Knowledge

Basic knowledge of biology and chemistry

Equivalent Units

300539 - Biodiversity, 300792 - Biology A - The Diversity of Life, 300222 - Biology 2, 700032 Biodiversity (UWSC), 700095 - Biodiversity (WSTC)

Special Requirements - Essential Equipment

Students are required to have safety glasses, lab coat, enclosed shoes.

.....

How many species walk, fly, swim or slither, crawl, hop, wriggle or just float, hitchhike or move so slowly that they appear not to move at all? No one knows and new species appear almost every day. This unit focuses on this spectacular diversity of living things and the process of evolution. Students explore and classify biodiversity and

how organisms function, acquire and assimilate resources and co-ordinate growth and reproduction. Organisms interact with one another and their environment forming a complex set of interactions in ecosystems. It is these interactions that have driven evolution. Ultimately human survival depends on the sustainable use of this biodiversity and ecosystems.

300802.2 Biodiversity

Credit Points 10 **Level** 1

Assumed Knowledge

Basic knowledge of biology and chemistry

Equivalent Units

300792 - Biology A – The Diversity of Life, 300539 - Biodiversity, 300222 - Biology 2, 700095 - Biodiversity

Incompatible Units

14436 - Foundation Biology 2, B1102A - Biological Sciences 1.2, J1761 - General Biology

Special Requirements - Essential Equipment

When attending practical classes, students must wear a laboratory coat, closed in shoes and use safety glasses as instructed.

.....

How many species walk, fly, swim or slither, crawl, hop, wriggle or just float, hitchhike or move so slowly that they appear not to move at all? No one knows and new species appear almost every day. This unit focuses on this spectacular diversity of living things and the process of evolution. Students explore and classify biodiversity and how organisms function, acquire and assimilate resources and co-ordinate growth and reproduction. Organisms interact with one another and their environment forming a complex set of interactions in ecosystems. It is these interactions that have driven evolution. Ultimately human survival depends on the sustainable use of this biodiversity and ecosystems.

700095.2 Biodiversity (WSTC)

Credit Points 10 **Level** 1

Assumed Knowledge

Basic knowledge of biology and chemistry

Equivalent Units

300539 - Biodiversity, 700032 - Biodiversity (UWSC), 300802 - Biodiversity

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

Special Requirements - Essential Equipment

Safety goggles, cloth laboratory coat, enclosed footwear

.....

How many species walk, fly, swim or slither, crawl, hop, wriggle or just float, hitchhike or move so slowly that they appear not to move at all? No one knows and new species appear almost every day. This unit focuses on this spectacular diversity of living things and the process of evolution. Students explore and classify biodiversity and how organisms function, acquire and assimilate resources and co-ordinate growth and reproduction. Organisms interact with one another and their environment forming a complex set of interactions in ecosystems. It is these interactions that have driven evolution. Ultimately human survival depends on the sustainable use of this biodiversity and ecosystems.

200957.1 Bioethics in Perspective

Credit Points 10 **Level** 7

Assumed Knowledge

Bachelor of Laws or equivalent qualification.

Equivalent Units

200906 - Bioethics

Incompatible Units

200295 - Bioethics

Unit Enrolment Restrictions

Students must be enrolled in 8083 Bachelor of Research Studies, 8084/8085 Master of Research or 2784 or 2810 Master of Laws (International Governance).

.....

This unit explores a range of ethical and legal issues in public health, biomedical research, biotechnology and medical practice.

300909.1 Biological Adaptation to Climate Change

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 40 credit points at Level 2.

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This unit investigates how organisms respond to variation in climate and what can be done to reduce their vulnerability to anthropogenic climate change. The unit makes use of a novel conceptual framework that defines 'vulnerability' as a function of the 'exposure' and 'sensitivity' of organisms to climate change. Therefore, we will begin by exploring how organisms are exposed to climate change, from regional climatic changes acting at the scale of populations, to local climatological effects acting at the scale of individuals. Next, we will examine what determines the sensitivity of organisms, focusing on the physiological, behavioural, and life-history traits that affect the ability of organisms to cope with and adapt to climate change. Then, we will show how exposure and sensitivity combine to determine the vulnerability of organisms, including in both managed and natural ecosystems. Finally, we will discuss the 'mitigation' and 'adaptation' strategies that can prevent the worst of the potential impacts from becoming realised and help protect our biodiversity in the face of anthropogenic climate change.

401140.1 Biomechanics

Credit Points 10 **Level** 2

Assumed Knowledge

It is assumed that students have knowledge of structural and functional anatomy of the human body. Students also need to be able to apply basic concepts in maths and physics.

Equivalent Units

400139 - Biomechanics and Kinesiology, 400882 - Introduction to Biomechanics

Unit Enrolment Restrictions

Students must be enrolled in 4658 Bachelor of Health Science (Sport and Exercise Science), 4661 Bachelor of Health Science/Master of Podiatric Medicine, 4662 Bachelor of Health Science/Master of Physiotherapy, 4706 Bachelor of Physiotherapy, 4707 Bachelor of Physiotherapy (Honours), 4708 Bachelor of Podiatric Medicine or 4709 Bachelor of Podiatric Medicine (Honours)

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The study of biomechanics, the science that examines the forces acting upon a structure and the effects of these forces, is essential for understanding how the human body moves during daily activities, exercise and sport. It is also important when considering where problems may arise with human movement, such as with disease processes, over exercising and injury and postural pathology. This unit is designed to introduce the student to biomechanics by studying: the mechanical principles of human movement: balance and equilibrium: mechanical factors involved in tissue type and motion; and the analysis of human movement.

301122.1 Biomedical Electronics

Credit Points 10 **Level** 3

Assumed Knowledge

Basic electronic (amplifiers and filters); computer skills.

Prerequisite

300361.3 Introduction to Human Biology

Unit Enrolment Restrictions

Students must be enrolled in Bachelor of Engineering (Honours).

Special Requirements - Essential Equipment

Access to a computer at SCEM computer Labs

.....

This unit will cover recent advances in biomedical electronics including electronic diagnostic devices, implanted devices, human-computer-interface, bioinstrumentation and neuromorphic engineering. Topics covered span from the bioelectromagnetism & related applications to regulatory aspects (IEC standards and TGA/FDA approval processes) and electrical safety of instrumentation. This unit will have a strong practical design focus with laboratories and tutorials focused on the design of real instrumentation (including manufacturing) dealing with real biomedical signals.

301121.1 Biomedical Signals and Data Analysis

Credit Points 10 **Level** 3

Assumed Knowledge

Basic programming skills.

Unit Enrolment Restrictions

Students must be enrolled in Bachelor of Engineering (Honours).

Special Requirements - Essential Equipment

Access to a computer at SCEM computer Labs.

.....

This unit will cover recent advances in biomedical signal and data analysis including electrocardiography, electroencephalography, human-computer-interface, electromyography, biomedical images and spikes processing. Topics covered span from basic to advanced signal processing. This unit will have a strong practical design focus with laboratories and tutorials focused on the design of usable software packages dealing with real biomedical signals.

200263.5 Biometry

Credit Points 10 **Level** 1

Assumed Knowledge

HSC Mathematics or equivalent

Equivalent Units

200192 - Statistics for Science, 300700 - Statistical Decision Making, 200032 - Statistics for Business, 200052 - Introduction to Economic Methods, 700033 - Biometry (WSTC), 700041 - Statistical Decision Making (WSTC), 30123 - Management Analytics

Incompatible Units

200182 - Quantitative Techniques

Special Requirements - Essential Equipment

Scientific calculator and access to a computer with appropriate software. Internet access. USB stick.

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Biometry introduces students to various statistical techniques necessary in scientific endeavours. Presentation of the content will emphasize the correct principles and procedures for collecting and analysing scientific data, using a hands-on approach. Topics include effective methods of gathering data, statistical principles of designing experiments, error analysis, describing different sets of data, probability distributions, statistical inference, non-parametric methods, simple linear regression and analysis of categorical data.

700033.4 Biometry (WSTC)

Credit Points 10 **Level** 1

Assumed Knowledge

Basic computer use. Basic understanding of mathematical algebra.

Equivalent Units

200032 Statistics for Business, 200052 Introduction to Economic Methods, 200192 Statistics for Science, 200263 Biometry, 300700 Statistical Decision Making, 700007 Statistics for Business (WSTC), 700041 Statistical Decision Making (WSTC)

Incompatible Units

200182 Quantitative Techniques

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diploma courses (7086, 7087) must have passed 40 credit points in order to enrol in this unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

Special Requirements - Essential Equipment

Scientific calculator and access to a computer with appropriate software. Internet access. USB stick.

.....

This unit introduces students to various statistical techniques necessary in scientific endeavours. Presentation of the content will emphasize the correct principles and procedures for collecting and analysing scientific data, using a 'hands-on' approach. Topics include effective methods of gathering data, statistical principles of designing experiments, error analysis, describing different sets of data, probability distributions, statistical inference, non-parametric methods, and simple linear regression and correlation.

401002.2 Bioscience 1

Credit Points 10 **Level** 1

Unit Enrolment Restrictions

Students must be enrolled in 4691 Bachelor of Nursing, 4693 Bachelor of Nursing (Advanced) or 4684 Bachelor of Midwifery. Unitrack students may study this unit as a miscellaneous unit.

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

.....

This unit introduces nursing and midwifery students to the terminology and major introductory concepts related to normal structure and function of the human body and its relationship to performances of activities of living and healthy lifestyle practices.

401006.2 Bioscience 2

Credit Points 10 **Level** 1

Assumed Knowledge

Basic knowledge of the human body systems, growth and development, homeostasis and the relationship to health, activities of living and the National Health Priorities.

Corequisite

401002.2 Bioscience 1

Equivalent Units

400750 - Introduction to Health Breakdown

Unit Enrolment Restrictions

Students must be enrolled in 4691 Bachelor of Nursing or 4693 Bachelor of Nursing (Advanced). Unitrack students may study this unit as a miscellaneous unit.

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

.....

This unit extends knowledge gained in Bioscience 1 and introduces nursing students to concepts associated with alterations in health and wellness as a consequence of life transition. It includes an introduction to pathophysiology, pharmacology, immunology and microbiology. The unit also focuses on the impact of microorganisms on the health of people and the body's natural defences, as well as pharmacological interventions, in dealing with infections and injuries and its significance for nursing.

401031.2 Bioscience for Midwifery

Credit Points 10 **Level** 1

Prerequisite

401002.1 Bioscience 1

Corequisite

401032.1 Midwifery Knowledge 2 AND **401220.1** Midwifery Professional Practice 2

Unit Enrolment Restrictions

Students must be enrolled in 4684 Bachelor of Midwifery.

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

.....

This unit extends knowledge gained in Bioscience I and introduces midwifery students to concepts associated with early human development, labour, birth and postpartum

changes. Physiological changes in the newborn at birth are identified together with growth and development to six weeks of age. The unit includes an introduction to principles of pharmacology and pharmacological agents that may be used as a supportive resource during pregnancy and birth. In addition to this, the unit also explores the impact of microorganisms on maternal and newborn health and the body's natural defenses in maintaining health.

401104.1 Block Clinical Practicum

Credit Points 10 **Level** 4

Assumed Knowledge

It is assumed the student will have a thorough knowledge of TCM theory, acupuncture and Chinese herbal medicine and have completed all (or close to all) clinical hours under supervision. As a core competency in registered TCM practice this is not a suitable unit for other health disciplines.

Incompatible Units

400927 - Block Clinical Practicum (PG) AND 400363 - Block Clinical Practicum

Unit Enrolment Restrictions

Students must be enrolled in a Traditional Chinese Medicine course.

.....

This unit provides the student with intensive, supervised clinical practice experience. Arrangements will be made for students to complete this stage in China. This will involve students paying their own travel fares, as well as, training and accommodation fees to the Chinese institution. This unit represents the final clinical practicum stage and development of clinical skills. Students will be expected to demonstrate competence in handling patients in a clinical context, and manage their integrated care using Traditional Chinese Medicine.

102570.1 Books that Changed how we Think

Credit Points 10 **Level** 3

Equivalent Units

102419 - Philosophy in Focus, 101916 - Case Studies in Philosophy: Text

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

.....

This unit involves an in-depth study of a philosophical text that has reshaped our understanding about the world we live in. The close reading and discussion will develop the students' capacity to read and think deeply about particular problems. Students will follow the text step by step, gaining insights as to why it has had such a lasting influence.

300836.1 Botany

Credit Points 10 **Level** 2

Assumed Knowledge

Basic knowledge of biology, chemistry and ecology.

Prerequisite

300802.1 Biodiversity

Equivalent Units

BI103A - Botany; 300328 - Botany

Special Requirements - Essential Equipment

Lab coat, enclosed footwear

.....

From microscopic algae to giant flowering angiosperms, this unit develops students knowledge and understanding of plants on earth. The unit covers the topics of plant anatomy and morphology, classification and systematics, and evolution. Students will examine the major groups of plants: green algae, bryophytes, lycophytes, monilophytes, gymnosperms and angiosperms. Laboratory and field work involves the study of common Australian plants and economically significant plants.

200088.3 Brand and Product Management

Credit Points 10 **Level** 3

Assumed Knowledge

Basic understanding of market research and an understanding of the core principles of consumer behaviour.

Prerequisite

200083.2 Marketing Principles

.....

Brand and Product Management focuses on the role brands and products play in the planning and execution of marketing strategies. Aspects of brand and product management include the building, implementation and maintenance of brands within a range of different contexts are covered in this unit. Students will develop a critical view of the inherent challenges firms encounter in creating and maintaining brands from a marketing perspective. This unit uses workshop sessions and online activities to create an interactive learning environment and bring the content to life.

101886.1 Brave New World: Negotiating Social Change in the 21st Century

Credit Points 10 **Level** 1

.....

The discipline of Sociology has witnessed a transformation reflecting significant changes in society and social life. This unit re-examines the sociological dimensions of a variety of social concerns, for example: environmental issues, global migration, health, religion, indigeneity, gender, ethnic conflict and sub-cultural groups and asks: In the 'brave new world' of contemporary society we need to re-evaluate the conventional sociological concern of social structure and inequality in the face of these broad social changes. This unit will examine the social transformations which characterise contemporary social life; in particular the pace of social change and the implications of social media. In exploring these social concerns the links are drawn between more recent theoretical constructs and the more traditional focus on national social structures and

inequalities. The unit will place special emphasis on concepts such as risk, individualism and uncertainty.

101756.2 Bridging the Gap: Re-engaging Indigenous Learners

Credit Points 10 **Level** 3

Equivalent Units

101116 - Issues in Aboriginal Education

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

.....

This unit is available to all undergraduate students who have open electives. Bridging the Gap: Re-engaging Indigenous Australian Learners will provide students with knowledge and skills to develop teaching strategies that will bridge the education gaps existing for many Indigenous Australian (Indigenous) learners. Students will gain knowledge of quality teaching frameworks to engage all learners and in particular Indigenous learners. The unit will also increase students' awareness of the complexities of the cultural inter-relationships between many Indigenous and non-Indigenous learners. The unit focuses on empowering students to effectively teach: Indigenous Australians; Indigenous studies in consultation with Indigenous communities; and assess as well as evaluate resources for use in teaching Indigenous studies.

102079.1 Britain in the Age of Botany Bay, 1760-1815

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

Special Requirements - Essential Equipment

All students will need access to a device capable of recording a 5-10 minute video and uploading it vUWS. All students will need access to software / apps to do record and (if they wish) edit this video.

.....

This unit introduces the social, economic, political and cultural forces that shaped the society from which the first white Australians came. It considers processes of historical change and uses primary sources to explore historical debates concerning these changes. Themes covered include social class; sex and gender; crime and punishment; industrial revolution, urbanisation, and public health; the public sphere; political life; war, militarisation, and empire. This unit places special emphasis on the use of digitised primary sources, training students in their use. It also requires an extended piece of original primary source-based historical research. The unit spans the period 1760-1815.

400621.2 Bugs and Drugs

Credit Points 10 **Level** 2

Assumed Knowledge

Basic understanding of structure and function of systems within the human body.

Special Requirements - Essential Equipment

Essential Equipment: Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/wuonline_student_support for further information.

.....

Throughout history humans have sought to control their well-being whether it be in response to disease-producing microbes or situations inherent in modern day life. This unit examines an eclectic range of treatments and technologies. Some have been triggered by ancient and enduring infectious foes such as smallpox and the plague or emerging menaces including Ebola and SARS. Others are nested within contemporary living and may be constructed as communicable in the social sense. Selected issues will be explored including agents utilised in the alteration of sensory perception including hallucinogens as well as reaction to and manipulation of body image.

300706.3 Building 1

Credit Points 10 **Level** 1

Equivalent Units

BG101A - Building 1, 700070 - Building 1 (WSTC)

Unit Enrolment Restrictions

Students in the following courses cannot enrol in this unit: Bachelor of Business; Bachelor of Business/Bachelor of Laws; Bachelor of Business and Commerce; Bachelor of Business and Commerce/Bachelor of Laws; Bachelor of Business and Commerce (Advanced Business Leadership); Bachelor of Business (Advanced Business Leadership)

.....

This unit provides students with an overview of regulations and construction techniques with an emphasis on low-rise residential buildings in the Australian context. It covers general process; building regulations; environmental issues; surveying techniques; structural elements (footings, framing and bracing); envelope; services; fit-out and finishes.

700070.2 Building 1 (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

300706 - Building 1

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level

unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

.....

This unit provides students with an overview of regulations and construction techniques with an emphasis on low-rise residential buildings in the Australian context. It covers general process; building regulations; environmental issues; surveying techniques; structural elements (footings, framing and bracing); envelope; services; fit-out and finishes.

300707.2 Building 2

Credit Points 10 **Level** 1

Equivalent Units

BG103A - Building 2; 700071 - Building 2 (WSTC)

.....

The aim of this unit is to provide students with an overview of the design, classification, applicable Australian Standards, structural systems, construction techniques, materials handling systems, building services, fit-out and finishes for larger scale buildings.

700071.2 Building 2 (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

300707 - Building 2

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

.....

The aim of this unit is to provide students with an overview of the design, classification, applicable Australian Standards, structural systems, construction techniques, materials handling systems, building services, fit-out and finishes for larger scale buildings.

301087.1 Building Design Process

Credit Points 10 **Level** 3

Prerequisite

301086.1 Design Brief Formulation

.....

Building design is an iterative process. In this unit students will gain experience in generating design proposals and responding to simulated client and stakeholder feedback. Holistic design solutions that address economic, environmental and social issues (triple bottom line assessment) will be generated for realistic building projects.

301099.1 Building Design Project 1

Credit Points 20 **Level** 4

Assumed Knowledge

Students should be familiar with the content from the first three years of the Building Design Management degree, including expertise in CAD, iterative design process and construction technology.

Prerequisite

301087.1 Building Design Process

Incompatible Units

301101 Building Design Project 1 (Honours)

Unit Enrolment Restrictions

Students must be enrolled in Bachelor of Building Design Management or Diploma in Building Design Management/ Bachelor of Building Design Management. Students must have successfully completed 220 credit points.

.....

In this unit students will source a suitable design project to complete as a capstone work which illustrates the skills they have developed throughout their study program. The project will contain a level of complexity exceeding that of previous building designs produced in the program. Diverse stakeholder input on the projects impact will be gathered and assessed.

301101.1 Building Design Project 1 (Honours)

Credit Points 20 **Level** 5

Assumed Knowledge

Students should be familiar with the content from the first three years of the Building Design Management degree, including expertise in CAD, iterative design process and construction technology.

Prerequisite

301087.1 Building Design Process

Incompatible Units

301099 Building Design Project 1

Unit Enrolment Restrictions

Students must be enrolled in 3727 Bachelor of Building Design Management.

.....

In this unit, students who have a record of superior performance in the Building Design Management program, will source a suitable design project at their own initiative, to complete as a capstone work which illustrates the skills they have developed throughout their study program. The project will contain a high level of complexity exceeding that of previous building designs produced in the program. Both the complexity level and the number of design constraints will distinguish the project undertaken for this unit from the non-honours stream unit. Diverse stakeholder input on the project's impact will be gathered and assessed. The design solution generated will show mastery of complex design problems which integrate technical knowledge with

economic and social responsibility. Superior skill in resolving design conflicts will be demonstrated.

301100.1 Building Design Project 2

Credit Points 20 **Level** 4

Assumed Knowledge

Students should be familiar with the content from the first three years of the Building Design Management degree, including expertise in CAD, iterative design process and construction technology.

Prerequisite

301099.1 Building Design Project 1

Incompatible Units

301102 Building Project 2 (Honours)

Unit Enrolment Restrictions

Students must be enrolled in Bachelor of Building Design Management or Diploma in Building Design Management/ Bachelor of Building Design Management. Students must have successfully completed 260 credit points of study.

.....

In this unit students will develop the design solution they created in Building Design Project 1 into a fully resolved CAD model suitable for costing, scheduling and contracting. Construction Certificate documentation will be generated.

301102.1 Building Design Project 2 (Honours)

Credit Points 20 **Level** 5

Assumed Knowledge

Students should be familiar with the content from the first three years of the Building Design Management degree, including expertise in CAD, iterative design process and construction technology.

Prerequisite

301101.1 Building Design Project 1 (Honours)

Incompatible Units

301100 Building Design Project 2

Unit Enrolment Restrictions

Students must be enrolled in 3727 Bachelor of Building Design Management.

.....

In this unit, students who have a record of superior performance in the program will continue to develop the design solution they created in Building Design Project 1 (Honours) into a fully resolved CAD model suitable for costing, scheduling and contracting. Construction Certificate documentation of professional standard will be generated. Both the complexity level and the number of design constraints will distinguish the project undertaken for this unit from the non-honours stream unit. Diverse stakeholder input on the projects impact will be gathered and assessed. Complex constraints relating to buildability and efficient project delivery will be resolved. Strict budgetary constraints will be imposed and students will be expected to demonstrate a capacity to use lateral thinking and generate creative solutions in response to problematic

situations which arise during project delivery but which were unknown at project commencement.

301207.1 Building Estimates and Tendering

Credit Points 10 **Level** 2

Equivalent Units

200468 - Estimating 1

.....

This unit will provide students with an understanding of the principles of design economics and the factors that affect the cost of buildings. Students will learn cost planning process and will be introduced to a range of estimating techniques that could be used at various stages of a building project. A particular focus would be to understand the tendering process and how to prepare detailed estimates using unit rate method.

200292.2 Building Law

Credit Points 10 **Level** 3

Equivalent Units

LW305A - Building Law 2

.....

This unit is designed to provide students with a good understanding of the law and dispute resolution mechanisms that regulate the conduct of the building industry and building practices e.g. Occupational health and safety, contract law, workers compensation, awareness of industrial relations and dispute resolution.

301208.1 Building Measurement

Credit Points 10 **Level** 2

Assumed Knowledge

Building construction including residential, light industrial and small commercial.

Equivalent Units

200486 - Quantity Surveying 1

.....

This unit is designed to develop the techniques required to measure, quantify and prepare bills of quantities for residential construction using standard method of building measurements. It will help students to appreciate basic role of a quantity surveyor.

300885.1 Building Regulations Studies

Credit Points 10 **Level** 2

Equivalent Units

BG302A - Building Regulation Studies, 300722 - Building Regulation Studies

.....

This unit develops an awareness of the regulations used to control risk in buildings. Major sources of risk, such as fire and public health, are identified and controlled. Building regulations of high risk regions, such as cyclonic, seismic and bushfire-prone areas, are also discussed. The unit emphasises the safety of vulnerable occupants, such as

young children, disabled people and the elderly. The unit also explores recent developments in the National Construction Code (NCC: formerly BCA) concerning energy efficiency.

301085.1 Built Heritage

Credit Points 10 **Level** 2

.....

This unit explores the history of building design in Australia and applies this contextual knowledge to the design of additions to existing buildings, as well as, to infill development in heritage areas. Built form, scale, materials, finishes and streetscape are considered so that new structures complement rather than detract from existing heritage buildings. The appropriateness of preservation, restoration, renovation, retrofit and adaptation strategies for older buildings is examined in the context of market and regulatory constraints on built heritage.

200896.1 Business Analysis Seminars

Credit Points 10 **Level** 5

Unit Enrolment Restrictions

Students must be enrolled in course 8083 Bachelor of Research Studies/Master of Research.

.....

This unit introduces students to exemplary research in selected contemporary issues in business practice and policy. Presented through a series of seminars by leading business academics, selected issues will be examined in terms of the competing definitions of the problem, the methods of analysis to be used to address the problem, components of the problems and relationships to other contemporary issues. As business research is inherently inter-disciplinary and involves multiple stakeholders, relevant and competing theoretical perspectives explaining selected issues will be examined. Different methods of investigation and analysis of issues will be evaluated.

200091.4 Business to Business Marketing

Credit Points 10 **Level** 3

Assumed Knowledge

Basic knowledge of marketing concepts, theories and frameworks

Prerequisite

[200083.2](#) Marketing Principles

Equivalent Units

MK318A - Business-to- Business Marketing, 61723 - Business-to-Business Marketing

.....

Unlike consumer marketing where an individual makes decisions based on their own needs or those of their household, business-to-business (B2B) marketing involves individuals or companies promoting and selling products and/or services to other companies. This unit encompasses all these aspects of B2B marketing including organisational buying behaviour, B2B market research, management of the marketing mix from a B2B perspective, relationship and network marketing, supply chain management and

Customer Relationship Management (CRM) strategies, and business marketing strategy.

200158.4 Business, Society and Policy

Credit Points 10 **Level** 2

Equivalent Units

700093 - Business, Society and Policy (UWSC)

Unit Enrolment Restrictions

Successful completion of 30 credit points.

.....

Business organisations influence and evolve through ongoing social, political and technological change. Taking the perspective that businesses both affect and are affected by government and society, the unit examines the complexities of interactions between three sectors: business, society and government. The unit emphasises the social responsibility of business. The different ideologies used to legitimise the actions of business, the responses from society and the role of government (local, transnational and global) in regulating interactions, are critically evaluated.

400984.2 Cardiorespiratory Physiotherapy

Credit Points 10 **Level** 3

Prerequisite

[401197.1](#) Clinical Education (General) AND [400997.3](#) Exercise Rehabilitation

Unit Enrolment Restrictions

Students must be enrolled in 4662 Bachelor of Health Science/Master of Physiotherapy, 4706 Bachelor of Physiotherapy or 4707, Bachelor of Physiotherapy (Honours) or 4733 Bachelor of Physiotherapy (Honours).

Special Requirements - Essential Equipment

Stethoscope

.....

This unit builds on the knowledge and skills developed in the first 2.5 years of physiotherapy study. This unit focuses on client assessment and evidence based management in acute cardiorespiratory physiotherapy contexts. Students will extend and advance the knowledge, competencies and skills in cardiorespiratory physiotherapy clinical reasoning including assessment, interpretation and prioritisation of findings, synthesis of complex information along with the implementation and evaluation of appropriate treatment strategies. This framework will also be applied to the management of patients in Intensive Care, where students will develop specialist knowledge and skills in cardiorespiratory assessment and treatment of acutely ill unstable patients with cardiorespiratory failure and complex comorbidities. This will require strong communication skills, ethical and professional behaviour and an appreciation of interprofessional care required in acute clinical scenarios including intensive care units.

102492.1 Catastrophe: The Environmental History of the Ancient and Modern World

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

.....

This unit examines past human interactions with the environment with its primary focus on the ancient Mediterranean and Near East between 2000 BC to 600 AD. Case studies include Sumer, the lost civilisations of the Sahara, Egypt, Greece, Rome, the Maya and later European colonial empires. Students will assess, evaluate and synthesize data drawn from environmental history to analyse how the limits of natural resources constrain civilisations. The unit asks how catastrophic collapse of civilisations informs the sustainability of our own societies. Key topics will be soil fertility, deforestation, desertification, and climate change from ancient times to the Anthropocene.

300816.1 Cell Biology

Credit Points 10 **Level** 1

Assumed Knowledge

Basic understanding of biology and chemistry

Equivalent Units

300543 - Cell Biology, 300793 - Biology B - Cellular Processes, 300221 - Biology 1, 700125 - Cell Biology (WSTC)

Special Requirements - Essential Equipment

Safety glasses, laboratory coat and laboratory book.

.....

Cells are the most basic form of all life, and underlying normal cell function are the molecules used to build complex cellular structures, generate energy, and propagate dynamic life. The unit will study the fundamental processes through which key biomolecules, including lipids, carbohydrates, amino acids and nucleic acids are manipulated to generate and store energy, and build a broad array of important biological macromolecules including DNA, membranes and proteins. To sustain life, cells respire for energy and replicate for growth and sexual reproduction. Accordingly the unit will examine cellular respiration, transcription, translation, mitosis, meiosis, transmission and how genes are inherited and modified providing insight into the phenomena of life. The role of DNA technologies in the fields of medicine, biotechnology and environmental science will provide students with real world applications.

700125.2 Cell Biology (WSTC)

Credit Points 10 **Level** 1

Assumed Knowledge

Basic understanding of biology and chemistry

Equivalent Units

300543 - Cell Biology, 300793 - Biology B – Cellular Processes, 700034 - Cell Biology (UWSC), 300816 - Cell Biology

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

Special Requirements - Essential Equipment

Safety goggles, cloth laboratory coat, lab book

.....

Cells are the most basic form of all life, and underlying normal cell function are the molecules used to build complex cellular structures, generate energy, and propagate dynamic life. The unit will study the fundamental processes through which key biomolecules, including lipids, carbohydrates, amino acids and nucleic acids, are manipulated to generate and store energy, and build a broad array of important biological macromolecules including DNA, membranes and proteins. To sustain life, cells respire for energy and replicate for growth and sexual reproduction. Accordingly the unit will examine cellular respiration, transcription, translation, mitosis, meiosis, transmission and how the genetic code is inherited and modified providing students insights into the phenomena of life. The role of DNA technology in the fields of medicine, biomolecular plant and animal science, food, forensic and environmental science will provide students with real world applications.

400874.4 Channels and Points 1

Credit Points 10 **Level** 2

Prerequisite

400348.2 Traditional Chinese Medicine 2

Corequisite

400352.2 Traditional Chinese Medicine 3

Equivalent Units

400347 - Acupuncture 1

Unit Enrolment Restrictions

Students must be enrolled in 4660 Bachelor of Health Science-Master of Traditional Chinese Medicine or 4710 Bachelor of Traditional Chinese Medicine.

.....

Acupuncture is one of the principal therapeutic interventions in Traditional Chinese Medicine (TCM). This unit introduces students to acupuncture theory and practice, and provides opportunity to develop practical skills. It covers the theory of channels and points, channel pathway, point location and indications of the conception and governor vessels, and the first 6 channels in the meridian cycle. This unit also expands upon the student's understanding of TCM theory and practice principles. This unit includes mandatory clinical placement

400875.2 Channels and Points 2

Credit Points 10 **Level** 2

Assumed Knowledge

Assumed knowledge equivalent to TCM Theory 1 and Channels and Points 1

Equivalent Units

400347 - Acupuncture 1

.....

Acupuncture is one of the principal therapeutic interventions in Traditional Chinese Medicine (TCM). This unit completes the study of system of channels and points, which forms the basis of clinical application of acupuncture. It covers the channel pathway, point location and indication of the three yang channels of foot and points, and Du and Ren channels and points. It also introduces the points of ear and scalp acupuncture. This unit expands upon the student's understanding of TCM theory and practice principles.

700043.3 Chemistry (WSTC Prep)

Credit Points 10 **Level** Z

Equivalent Units

900024 - Chemistry (UWSC)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

Special Requirements - Essential Equipment

Approved safety glasses, lab coat

.....

This unit introduces students to the basic concepts required to satisfy the needs of most first year university science courses in both skill and content areas. It is intended that students will gain a greater understanding of the theoretical concepts covered in the course by completing the practical component of the course.

400162.4 Child and Adolescent Occupations

Credit Points 10 **Level** 3

Prerequisite

[400908.2](#) People, Environment and Occupations AND [400909.3](#) Occupational Therapy Practice 2

Unit Enrolment Restrictions

Students must be enrolled in Course 4663 Bachelor of Health Science/Master of Occupational Therapy or 4711 Bachelor of Occupational Therapy or 4712 Bachelor of Occupational Therapy (Honours).

.....

Students learn about occupational therapy practice with children and youth in different practice settings. This unit examines child development and explores the occupations of children and youth. The impact of family, social, cultural and political contexts on this period of life is analysed. Occupational therapy models, frames of reference,

assessments and interventions are applied to practice scenarios. Family-centred practice is a key focus of this unit.

401301.1 Child Speech and Language Development

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Students must be enrolled in the 4763 Bachelor of Speech Pathology or 4764 Bachelor of Speech Pathology (Honours).

.....

The unit provides an orientation to the practice of speech pathology with children and introduces students to typical communication development in children and delays and disorders in communication development. Students will develop practical skills in assessing, diagnosing, analysing and treating speech and language disorders in children.

102205.1 Children's and Young Adult Fiction

Credit Points 10 **Level** 3

Equivalent Units

101242 - Children's Literature

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit explores a wide range of fictional texts created for children, teenagers and young adults from folktales, fairytales and myths to contemporary examples. It focuses on the relationship between young people, the texts created for them and the cultures in which these texts are produced and read. The unit will examine a variety of genres and themes, for example, the experience of childhood as constructed by adult authors of children's texts; post-colonial children's literature; the emergence and development of distinctly Australian children's texts; the development of young adult literature; the impact of new technologies on children's literature; and role of art in children's literature.

101265.3 Children's Culture

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

.....

This unit explores the concept of children's culture and the diversity of cultures to which children belong. The unit focuses on current debates about childhood and children's culture, including the rise of children's consumer culture. Students will gain insights into children's lives and culture by critically engaging with a variety of objects and institutions that are part of children's lives, for example, toys, videogames, children's television programs, films and books. The unit will also examine the role of adults in children's culture, including in marketing and advertising to children.

101626.5 Children's Literature: Image and Text

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit focuses on the interrelationships between image and text in children's literature. The unit examines both picture books and other image-based children's texts, including electronic texts and graphic novels. The unit will examine children's texts as cultural artefacts, theories of visual literacy and how image and text combine to create meaning. Students will have the opportunity to create their own picture book for their final project.

100056.2 Chinese 101

Credit Points 10 **Level** 1

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This unit is an introduction to the (Mandarin) Chinese language as well as aspects of Chinese culture which are necessary for language competency, using Pinyin and simplified characters. It is intended for students who are not from a Chinese-speaking background and who are at beginner level in all four skills -listening, speaking, reading and writing in Modern Standard Chinese. Components of this unit may be presented in English. Students with a background of study in the language need to obtain advice on their appropriate level of language study. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher class. Students should consult the Languages Academic Course Advisor or Unit Coordinator if they are unsure of their entry level.

100057.2 Chinese 102

Credit Points 10 **Level** 1

Assumed Knowledge

100056 Chinese 101 or equivalent knowledge

.....

This is a post-beginner level unit in (Mandarin) Chinese intended for those with knowledge of Chinese 101 or equivalent. This unit builds on the knowledge and skills developed in (Mandarin) Chinese 101 and aims to further develop listening, speaking, reading and writing skills in elementary Modern Standard Chinese. The unit includes a socio-cultural component which will examine some aspects of China and Chinese culture as well as the Chinese community in Australia. Students with a background of study in the language need to obtain advice on their appropriate level of language study. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher class. Students should consult the Languages Academic Course Advisor or Unit Coordinator if they are unsure of their entry level.

102024.1 Chinese 201

Credit Points 10 **Level** 2

Assumed Knowledge

Successful completion of 20 credit points of Chinese Language at Level 1 or equivalent.

Equivalent Units

101700 - Language and Communication Skills 2A: Chinese

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This is a post-beginner unit for intermediate level study of modern Chinese (Mandarin) language and its culture, suitable for Post HSC entry or an equivalent level. This unit is designed for students who take it as part of the Chinese major/sub-major or as an elective unit. It will further develop the Pinyin system and the four core skills (listening, speaking, reading and writing), with a particular focus on core vocabulary and fundamental structures, using approximately 500 simplified Chinese characters. Aspects of culture and language acquisition strategies are explored through research projects. Differentiated learning and assessment tasks and multimedia activities are utilised to cater to non-background and quasi-background learners. The unit is not suitable for background speakers (i.e., who have completed formal secondary education where Mandarin Chinese is used as an official language and also the language of instruction at the School). NOTE: Students enrolling in this unit as part of a major or sub major in Chinese are encouraged to enrol in Chinese 202 at the same time.

102025.1 Chinese 202

Credit Points 10 **Level** 2

Assumed Knowledge

Successful completion of 20 credit points of Chinese Language at Level 1 or equivalent.

Equivalent Units

101700 - Language and Communication Skills 2A: Chinese

.....

This is a post-beginner unit for intermediate level study of modern Chinese (Mandarin) language and its culture suitable for Post Beginners or an equivalent level. Students can take it as part of a major/sub-major or as an elective unit. It aims to develop listening and speaking skills in a real communicative setting. Students will learn Pinyin, vocabulary, expressions and grammatical structures in a wide range of daily situations. In addition, students will have the chance to learn and research on some interesting aspects of Chinese culture. Differentiated learning and assessment tasks and multimedia activities are utilised to cater to non-background and quasi-background learners. The unit is not suitable for background speakers (i.e., who have completed formal secondary education where Mandarin Chinese is used as an official language and also the language of instruction at the School). NOTE: Students enrolling in this unit as part of a major or sub major in Chinese are encouraged to enrol in Chinese 201 at the same time.

102026.1 Chinese 203

Credit Points 10 **Level** 2

Assumed Knowledge

Successful completion of 20 credit points of Chinese Language at Level 1 or equivalent.

Equivalent Units

101705 - Language and Communication Skills 2B: Chinese

Incompatible Units

100062 - Chinese 301; 100063 - Chinese 302; 100064 - Chinese 303: Twentieth-Century Chinese Literature; 100065 - Chinese 304: Chinese Classical Literature; 100066 - Chinese 305: Chinese Cinema; 100067 - Chinese 307: The Cultural Context of China; 100510 - Chinese 306: Traditional Chinese Thought.

.....

This is an intermediate level unit of modern Chinese (Mandarin) language and its culture suitable for students who undertake it as part of the Chinese major or sub-major or as an elective subject. It further develops students' language skills acquired in Chinese 201 and 202 to a level of proficiency to satisfy their general social needs. While students' aural/oral skills are further developed, emphasis is placed on reading and writing. A working knowledge of approximately 800 simplified Chinese characters is developed. Aspects of Chinese culture and society are explored through research work. Differentiated learning and assessment tasks and multimedia activities are utilised to cater to non-background and quasi-background learners. The unit is not suitable for background speakers (i.e., who have completed formal secondary education where Mandarin Chinese is used as an official language and also the language of instruction at the School). NOTE: Students enrolling in this unit as part of a major or sub major in Chinese are encouraged enrol in Chinese 204 at the same time.

102027.1 Chinese 204

Credit Points 10 **Level** 2

Equivalent Units

101705 - Language and Communication Skills 2B: Chinese

Unit Enrolment Restrictions

Successful completion of 20 credit points of Chinese Language at Level 1 or equivalent.

Special Requirements - Essential Equipment

vUWS access

.....

This is an intermediate level unit of modern Chinese (Mandarin) language and its culture suitable for students who undertake it as part of the Chinese major or sub-major or as an elective subject. It provides an extension of reading comprehension and writing skills over a range of written registers. The content is selected from contemporary materials (e.g. songs and rhymes, fables and idioms, magazines, short stories and websites). This unit also fosters cultural and social understanding by presenting aspects of contemporary cultures and societies through language use and research work. Differentiated learning

and assessment tasks and multimedia activities are utilised to cater to non-background and quasi-background learners. The unit is not suitable for background speakers (i.e., who have completed formal secondary education where Mandarin Chinese is used as an official language and also the language of instruction at the School). NOTE: Students enrolling in this unit as part of a major or sub major in Chinese are encouraged enrol in Chinese 203 at the same time.

101951.1 Chinese 301

Credit Points 10 **Level** 3

Assumed Knowledge

Successful completion of 40 credit points of Chinese language at Level 2 or equivalent

Equivalent Units

101710 - Languages and Grammatical Concepts 3A: Chinese

.....

This is an advanced Level 3 unit within the Chinese major program, designed for students who have acquired an intermediate level of proficiency, and who wish to consolidate and improve their language proficiency and understanding of Chinese culture. It further develops students' proficiency in both spoken and written Chinese, and enhances their comprehension of Chinese language, culture and society. Students are encouraged to express their own opinions in a wide range of social and cultural contexts. Interactive lecture/tutorials, online activities and authentic materials are used to facilitate a positive learning experience.

100063.2 Chinese 302

Credit Points 10 **Level** 3

Assumed Knowledge

Chinese 301 or equivalent

.....

This unit further develops the language skills and cultural understanding students already have or have acquired through Chinese 101–301, with an emphasis on oral expression, reading, writing and research skills. It enhances students' ability to interact in both spoken and written Chinese in various situations and ability to research and express their views on Chinese social and cultural issues. Authentic materials are used as much as possible in order to deepen students' understanding of the Chinese language, culture and society, and improve their ability to interact in various settings.

100064.2 Chinese 303: Twentieth-Century Chinese Literature

Credit Points 10 **Level** 3

Assumed Knowledge

Chinese 204 or equivalent knowledge

.....

This unit introduces students to modern and contemporary Chinese literature in the Chinese language. It includes a brief overview of Twentieth-century Chinese literature, and

exposes students to a variety of literary genres. Students are expected to work individually and in groups in order to analyse, evaluate and critique these works, whose social and cultural context is integral to understanding them. This process will not only increase students' understanding and appreciation of Twentieth-century Chinese literature, but it will also develop their critical thinking skills.

100065.2 Chinese 304: Chinese Classical Literature

Credit Points 10 **Level** 3

.....

This unit introduces students to Chinese classical literature in the Chinese language. It includes a brief overview of Chinese classical literature and exposes students to the prose, poetry, drama and fiction genres of Chinese classical works from the Han dynasty to the Qing dynasty. Through selected readings, students will gain some knowledge of the stylistic and linguistic features of classical prose and develop skills in reading classical Chinese. Students will also develop an understanding of the Chinese literary tradition and an appreciation of the continuing relevance of classical Chinese in contemporary China.

100066.2 Chinese 305: Chinese Cinema

Credit Points 10 **Level** 3

.....

This unit offers a brief review of Chinese film and introduces some of the best Chinese-language productions of the last two decades from mainland China and Taiwan. Students will be required to work individually and in groups to critique the social and moral issues raised in these films. They will also consider the historical context from which these films emerged. This process will develop a deeper understanding of Chinese society and the lives of Chinese people of different eras. It will also enhance students' appreciation of Chinese cultural identity and moral values.

100510.2 Chinese 306: Traditional Chinese Thought

Credit Points 10 **Level** 3

Assumed Knowledge

Chinese 202 or equivalent

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This unit is a thematic unit in the BA Key Program Languages and the BA Interpreting and Translation. It is part of the Chinese major or sub-major and can also be taken as an elective. It introduces students to Chinese thought and way of life - the Confucian-Daoist tradition. Students will explore how China's ancient wisdom shapes its long resilient civilization and how it helps the nation maintain its cultural identity while it exerts an international influence on today's world. Students will read selected works of prominent Chinese thinkers in the original or English versions. This unit will be conducted in Chinese and English.

100067.2 Chinese 307: The Cultural Context of China

Credit Points 10 **Level** 3

Assumed Knowledge

Chinese 204 or equivalent

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This unit provides a brief overview of Chinese culture and examines the cultural interchanges of which it has been a part throughout history. Students will analyse the effects of these cultural contacts, both positive and negative. They will also evaluate and critique relevant cultural issues, from a comparative perspective. This process will increase students' understanding of the cultural identity of China, and it will also enable them to appreciate the importance of outside cultural influences, thereby reinforcing an open and mature attitude towards multiculturalism. The unit will be conducted in Chinese.

401098.2 Chinese Internal Medicine 1

Credit Points 10 **Level** 4

Prerequisite

400352.2 Traditional Chinese Medicine 3 AND **400873.1** Acupuncture Techniques AND **400878.2** Chinese Medicinal Formulas

Incompatible Units

700918 - Chinese Internal Medicine 1 (PG); 400360 - Chinese Internal Medicine 1

Unit Enrolment Restrictions

Students must be enrolled in course 4710 - Bachelor of Traditional Chinese Medicine.

.....

The study of internal medicine forms the basis of clinical practice in Traditional Chinese Medicine (TCM). This unit begins to bridge the gap between theory and practice. It enables the health professional to analyse, diagnose and treat common internal diseases with both acupuncture and herbal medicine and using a TCM approach. The focus of this unit is on the analysis of major presenting symptoms.

401102.2 Chinese Internal Medicine 2

Credit Points 10 **Level** 4

Prerequisite

400352.3 Traditional Chinese Medicine 3 AND **400873.2** Acupuncture Techniques AND **400878.3** Chinese Medicinal Formulas

Incompatible Units

400922 - Chinese Internal Medicine 2 (PG) AND 400360 - Chinese Internal Medicine 2

Unit Enrolment Restrictions

Students must be enrolled in course 4710 - Bachelor of Traditional Chinese Medicine or continuing course 4660 Bachelor of Chinese Medicine.

This unit builds on Chinese Medicine 1 and extends the student's ability to analyse, diagnose and treat common and difficult diseases in internal medicine with both acupuncture and herbal medicine and using a TCM approach. Students will develop an understanding of the causes and pathophysiological mechanisms of a wide range of diseases.

400876.3 Chinese Materia Medica 1

Credit Points 10 **Level** 2

Prerequisite

400348.2 Traditional Chinese Medicine 2

Corequisite

400352.2 Traditional Chinese Medicine 3

Equivalent Units

400349 - Chinese Herbal Medicine 1

.....

Herbal medicine is one of the principal therapeutic interventions in Traditional Chinese Medicine. This unit introduces students to the therapeutic and reference organisation of Chinese medicinal herbs, and enables students to commence using the materia medica. It covers the commonly used herbs in each of the six categories of the Chinese materia medica, including the herbal properties, actions, indications, contraindications, combined usage as well as herbal dispensing. This unit also expands upon the student's understanding of TCM theory and practice principles. This unit includes mandatory clinical placement

400877.3 Chinese Materia Medica 2

Credit Points 10 **Level** 2

Prerequisite

400348.2 Traditional Chinese Medicine 2 AND 400876.3 Chinese Materia Medica 1

Equivalent Units

400351 - Chinese Herbal Medicine 2

Special Requirements - Essential Equipment

Clinical uniform is required.

.....

This unit completes the study of Chinese medicinal herbs, which forms the basis for Chinese herbal medicine. It covers the commonly used herbs in each of the twelve categories of the Chinese materia medica, including the herbal properties, actions, indications, contraindications and combined usage. It also introduces the basic knowledge of herbal pharmacognosy. This unit also expands upon the student's understanding of Traditional Chinese Medicine theory and practice principles.

400878.3 Chinese Medicinal Formulas

Credit Points 10 **Level** 3

Prerequisite

400352.2 Traditional Chinese Medicine 3 AND 400877.2 Chinese Materia Medica 2

Equivalent Units

400351 - Chinese Herbal Medicine 3

.....

Herbal medicine is the principal therapeutic intervention in Traditional Chinese Medicine (TCM). This unit follows from Chinese Materia Medica 1 & 2, and begins the study of major Chinese herbal formulas, which form the basis for clinical prescribing in Chinese herbal medicine. The focus of this unit is to compare and contrast the main formulas in specified categories, and to analyse the specific actions of the herbs that make up the formula. Students will be required to formulate, assemble and prepare complex prescriptions. This unit expands upon the student's knowledge of the Chinese Materia Medica, as well as the understanding of TCM theory and practice principles.

102192.1 Cinema and Censorship

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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Censorship of the arts has long been a contentious issue. This unit examines the cultural contexts and debates surrounding censorship, as well as the institutions, policies, and people that figure prominently in the history of cinema censorship. Censorship discourses reveal shifts in how 'national morality' is constructed, and often display cultural anxieties about changing meanings of gender, sexuality, race, and class. This unit offers an historical survey of film censorship from the 1890s to today, utilising various theoretical approaches (feminist theory, critical race theory, queer theory, and cultural theory), with an emphasis on topics such as obscenity, pornography, violence, and blasphemy.

101984.1 Cinema and Experience

Credit Points 10 **Level** 3

Equivalent Units

63062 - Film, Genre and Affect, 100256 - Film and Affect

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

.....

Film Studies and Literary Studies share some common theoretical foundations and analytical methods. However, considered in its cultural contexts, the question of how a film is experienced by spectators becomes critical. Films engage spectators in an embodied and affective way. The unit will argue that we cannot understand how a film takes up thematic and cultural questions without exploring the dynamics of spectatorship. This unit will explore some key approaches to film spectatorship and will look at how cinematic techniques shape narrative, genre, character, and thematic and cultural questions into embodied and affective experience.

300005.2 Circuit Theory

Credit Points 10 **Level** 2

Assumed Knowledge

Content contained in 200238 - Mathematics for Engineers 2. Ordinary Differential Equations, including first and second order. Laplace transforms: definition, inverse transform, s-shift, unit step function and Dirac delta function, transform of a derivative, solving differential equations.

Prerequisite

300021.2 Electrical Fundamentals

Equivalent Units

700243 - Circuit Theory (WSTC AssocD)

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This unit aims to equip the student with the tools needed for the design and analysis of electrical and electronic circuits. It also introduces various techniques of circuit analysis, mutual coupling, frequency response and two-port networks.

700243.1 Circuit Theory (WSTC AssocD)

Credit Points 10 **Level** 2

Assumed Knowledge

Ordinary Differential Equations, including first and second order. Laplace transforms, definition, inverse transform, s-shift, unit step function and Dirac delta function, transform of a derivative, solving differential equations.

Prerequisite

700104.2 Electrical Fundamentals (WSTC AssocD)

Equivalent Units

300005 - Circuit Theory

Unit Enrolment Restrictions

Students must be enrolled in 7022 Associate Degree in Engineering

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This unit aims to equip the student with the tools needed for the design and analysis of electrical and electronic circuits. It also introduces various techniques of circuit analysis, convolution, mutual coupling, frequency response and two-ports loops.

101589.2 Cities: Introduction to Urban Studies

Credit Points 10 **Level** 1

Equivalent Units

101342 - The Urban Context

.....

This unit is a keystone in the Geography and Urban Studies major. It aims to introduce students to the major urban challenges that will shape our society in the future and to the major substantive concerns in the field of urban management and planning It will develop students' understanding of how their own urban experiences are

shaped by broader historical, cultural, economic, and social forces, and will enable students to compare the Australian urban context and issues with those in other world regions.

101968.1 Civil Society in Contemporary China

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

.....

This unit is intended to give students an understanding of the social development of the People's Republic of China (PRC). It will engage with some of the key concepts that scholars have utilised to understand social changes. In this vein, the unit will consider China's socio-political transformation from a civil society perspective. It will consider a range of stakeholders - from non-governmental organisations to trade associations - and examine the events that have contributed to the development of China's civil society.

300930.1 Classical Physics and Advanced Technologies

Credit Points 10 **Level** 2

Assumed Knowledge

Introductory mechanics: Newton's laws, work, conservation of energy and momentum. Introductory Electrostatics: Electric forces and Coulomb's law; DC electricity, voltage, current, resistance, Ohm's law, electric power, circuit laws. Introduction to Magnetic fields: production by magnets & currents, magnetic forces on currents & charges; Induced EMF, Faraday's law and electrical generators; AC current & voltage, peak & rms values, capacitance and inductance.

Prerequisite

300829.1 Physics 2

Equivalent Units

300413 - Applied Instrumentation in Nanotechnology

.....

This unit explains in depth aspects of classical mechanics related to forced and damped oscillations. Physical waves are introduced and formalized by describing applications of the wave equation to mechanical systems and electromagnetic radiation. Interference and diffraction are detailed using electromagnetic fields (physical optics). Main technological applications of mechanical oscillations and electromagnetic waves are also explained, such as the atomic force microscope, laser, optical tweezers and the zeta-sizer.

401100.2 Classical Texts in Chinese Medicine

Credit Points 10 **Level** 4

Prerequisite

400352.2 Traditional Chinese Medicine 3 AND **400878.2** Chinese Medicinal Formulas

Incompatible Units

400969 - Classical Texts in Chinese Medicine (PG)

Unit Enrolment Restrictions

Students must be enrolled in course 4710 - Bachelor of Traditional Chinese Medicine.

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This unit provides further learning experiences that enable the students to explore the original theories on physiology, pathology, diagnosis, differentiation and treatment of diseases through select periods of Chinese history. Many theoretical concepts, diagnostic systems and therapeutic methods of Traditional Chinese Medicine (TCM) are still in current usage, and will be covered through the study of important classical texts and academic schools of TCM thought. This unit expands upon the student's understanding of TCM theories and practice principles through studies of the classical literature.

102420.1 Classics of Modern Philosophy

Credit Points 10 **Level** 3

Equivalent Units

100852 - Classics of Modern Philosophy

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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Classics of Modern Philosophy introduces students to a selected number of 'great' (highly influential) philosophical texts from the seventeenth up to the twentieth century. Addressing fundamental issues such as human freedom, the nature of truth and knowledge, technological progress, problems of modern life, this unit guides students through key statements with supporting explanation of the philosophers, their projects and careers, and relevant social contexts.

101870.1 Climate Change and Culture

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit introduces climate change as a complex social, cultural and political phenomenon, one that is re-shaping the way we live in the world and future lifestyles. Because climate change is highly contested, the course critically examines the issue from different theoretical, disciplinary, social and cultural perspectives. Topics range from cultural theory and forms of social action to the history and construction of climate change as concepts and debates around nature, culture, science, economics and consumption; to social justice, Indigenous knowledge systems, popular culture, the media and Australian politics, global governance, cities and urban planning.

300837.1 Climate Change Science

Credit Points 10 **Level** 2

Prerequisite

300808.1 Introductory Chemistry OR **300800.1** Essential Chemistry 1 AND **300802.1** Biodiversity

Equivalent Units

300781 - Atmospheric Science

Special Requirements - Essential Equipment

Field practicals - outdoor attire, enclosed footwear

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A factual understanding of the energy balance of the globe, how this impacts on climate and how climate has varied in the past, is essential for any person working in the climate change area. This unit will introduce students to the concept of energy balance and climate, our understanding of how climate works, and how it has changed through time. Topics in basic atmospheric science will give students a critical understanding of current environmental concerns and debates about radiative forcing (the greenhouse effect), climate change, ozone depletion, photochemical pollution and acid precipitation.

401120.1 Clinical and Professional Practice (Honours)

Credit Points 20 **Level** 4

Assumed Knowledge

Completion of all core units to this semester/year of study is assumed knowledge

Prerequisite

400929.3 Podiatric Practice 1 AND **400930.4** Podiatric Practice 2 AND **400931.2** Podiatric Practice 3 AND **400937.3** Podiatric Techniques 2A AND **401115.1** Podiatric Paediatrics and Sports Medicine AND **401116.1** Dermatology and Gerontology

Corequisite

401184.1 The High Risk Foot

Incompatible Units

400943 - Podiatric Clinical Block for Honours, 400934 - Podiatric Professional Practice Studies

Unit Enrolment Restrictions

Students must be enrolled in 4709 Bachelor of Podiatric Medicine (Honours).

Special Requirements - Essential Equipment

Podiatric Medicine student uniform.

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This unit will introduce practical principles of professional, ethical and legal issues associated with working as a podiatrist, focusing on the workplace, administrative policies and procedures as required for registration with the state Registration Board. Students then undertake a clinical block in a public sector placement designed to further consolidate podiatric assessment, communication and management skills. The student will be involved in treating

pathologies in general health and the high risk patient encompassing all aspects of podiatry

400879.1 Clinical Assessment Methods

Credit Points 10 **Level** 3

Assumed Knowledge

Understanding of human anatomy & physiology and pathophysiology of common impairments of health.

Prerequisite

400138.1 Pathophysiology 1 AND **400868.1** Human Anatomy and Physiology 1 AND **400869.1** Human Anatomy and Physiology 2

Equivalent Units

400262 - Clinical Diagnosis

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This unit is designed to introduce students to basic principles and essential skills of physical examination and diagnostic/laboratory investigation procedures, required for successful approach to diagnosis of health impairment states. Primary contact health practitioners are expected to have sound understanding of disease presentation, techniques of patient interviewing and examination for collection of relevant clinical information as well as the ability to select appropriate laboratory tests and interpret their findings. This unit will also help students to develop fundamental clinical reasoning skills required in the medical decision making process.

300951.2 Clinical Classification and Coding

Credit Points 10 **Level** 2

Prerequisite

300950.2 Fundamentals of Medical Concepts and Terminology

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This unit is designed to enable the student to classify diseases and interventions using the current version of the International Statistical Classification of Diseases and Related Health Problems, Tenth Revision, Australian Modification, the Australian Classification of Health Interventions and the Australian Coding Standards (ICD-10-AM/ACHI/ACS). The unit will also include the historical development of clinical classification systems as well as the purpose and value of classifying diseases and interventions within the health system. The student will become familiar with the structure and content of ICD-10-AM/ACHI/ACS and be introduced to the rules and conventions associated within ICD-10-AM/ACHI. The primary ACS for ICD-10-AM/ACHI will be studied and applied when coding from line diagnoses/interventions, case studies, simple discharge summaries and clinical record reports. They will gain skills in data abstraction for clinical coding, specifically, the selection of principal and additional diagnoses and interventions.

401197.1 Clinical Education (General)

Credit Points 10 **Level** 3

Prerequisite

400982.3 Core Competencies in Physiotherapy Practice

Corequisite

400997.3 Exercise Rehabilitation AND **400986.1** Neurological Physiotherapy AND **401199.1** Musculoskeletal Physiotherapy A

Unit Enrolment Restrictions

Students must be enrolled in 4706 Bachelor of Physiotherapy or 4733 Bachelor of Physiotherapy (Honours).

Special Requirements - Essential Equipment

Students are required to wear the Western Sydney University physiotherapy uniform which complies with NSW Health uniform requirements.

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This clinical unit builds on the knowledge and skills developed in first 2 years of physiotherapy study. It focuses on generic aspects of physiotherapy professional practice, which will have been developed through a variety of experiential and community engagement learning activities. Professional competencies addressed in this unit include communication, documentation, and reflection, professional and ethical behaviour. In addition, students will develop skills in client assessment, interpretation of findings and education. A professional practice placement is incorporated into this unit. This unit requires physiotherapy students to demonstrate assessment, intervention skills and problem solving skills in a general environment. The focus will be on generic skills such as communication, problem solving, manual handling, gait and basic assessment skills. The placement may include ambulatory care, acute care, rehabilitation or paediatrics.

400985.3 Clinical Education A (Acute Care)

Credit Points 10 **Level** 3

Prerequisite

400998.3 Neurological Rehabilitation AND **400984.2** Cardiorespiratory Physiotherapy AND **401200.1** Musculoskeletal Physiotherapy B

Corequisite

401107.1 Physiotherapy for Chronic Illness and Disease

Unit Enrolment Restrictions

This unit is restricted to students who are enrolled in 4662 Bachelor of Health Science/Master of Physiotherapy, 4706 Bachelor of Physiotherapy or 4707, Bachelor of Physiotherapy (Honours) or 4733 Bachelor of Physiotherapy (Honours)

Special Requirements - Essential Equipment

Students are required to wear the Western Sydney University physiotherapy uniform and name badge which complies with NSW Health uniform requirements, in addition they require a stethoscope.

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This clinical education placement will provide the context for students to apply the theoretical and research knowledge and skills learnt in 400984 Cardiopulmonary Physiotherapy. Students will be required to assess and treat clients in the acute care and intensive care settings. Assessments and treatments will focus on improving or

preventing client impairments. These may include decreased mobility and function altered by acute illness or injury, which may be combined with a chronic disease or a disability. These assessment and treatments will tend to have a cardiorespiratory physiotherapy focus, but clients may also present with neurological and musculoskeletal conditions which require intervention. Students will, therefore, be expected to integrate knowledge and skills learnt across all physiotherapy-specific units in their provision of client-centred care as well as draw on more general knowledge and skills from earlier stages of the course.

401110.2 Clinical Education B (Rehabilitation)

Credit Points 10 **Level** 4

Prerequisite

400998.3 Neurological Rehabilitation AND **401200.1** Musculoskeletal Physiotherapy B AND **400984.2** Cardiorespiratory Physiotherapy

Corequisite

401107.1 Physiotherapy for Chronic Illness and Disease

Incompatible Units

401051 - Clinical Education B (Rehabilitation)

Unit Enrolment Restrictions

Students must be enrolled in 4706 Bachelor of Physiotherapy or 4707 Bachelor of Physiotherapy (Honours) or 4733 Bachelor of Physiotherapy (Honours)

Special Requirements - Essential Equipment

Students are required to wear the WSU physiotherapy uniform, which complies with NSW Health uniform requirements.

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This clinical education placement will operationalise the theoretical and research knowledge and skills learnt in the first three years of the course. Students will be required to assess and treat clients in rehabilitation settings. Treatments will be focused on improving client mobility and function that is altered by illness, injury, chronic disease or a disability. This will assist in preparation for client discharge home or to an appropriate residential facility, as well as enhance functioning at home or in the community. Assessment and treatments will tend to have a neurological physiotherapy focus, but clients may also present with cardiorespiratory and musculoskeletal conditions which require intervention. Students will, therefore, be expected to integrate knowledge and skills learnt across all physiotherapy-specific units in their provision of client-centred care as well as draw on their more general knowledge from earlier stages of the course.

401111.2 Clinical Education C (Ambulatory Care)

Credit Points 10 **Level** 4

Prerequisite

400984.2 Cardiorespiratory Physiotherapy AND **400998.3** Neurological Rehabilitation AND **401200.1** Musculoskeletal Physiotherapy B

Corequisite

401107.1 Physiotherapy for Chronic Illness and Disease

Incompatible Units

401052 - Clinical Education C (Ambulatory Care)

Unit Enrolment Restrictions

Students must be enrolled in 4706 Bachelor of Physiotherapy or 4707 Bachelor of Physiotherapy (Honours) or 4733 Bachelor of Physiotherapy (Honours).

Special Requirements - Essential Equipment

Students are required to wear the Western Sydney physiotherapy uniform, which complies with NSW Health uniform requirements; in addition they require a stethoscope and a name badge.

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This clinical education placement will operationalise the theoretical and research knowledge and skills learnt in the first three years of the course. Students will be required to assess and treat clients who present in hospital outpatient departments, community settings and private practices. This involves the assessment of the client's impairments, function and disability within their home and community environment. Interventions may include manual and exercise therapy; use of electrophysical agents, taping and bracing; and education regarding both prevention and management of conditions. Assessment and treatment will tend to have a musculoskeletal physiotherapy focus, however, clients may also present with neurological and cardiorespiratory conditions that require intervention. Students will therefore integrate knowledge and skills learnt across all physiotherapy-specific units in their provision of client-centred care as well as draw on their more general knowledge from earlier stages of the course.

401112.2 Clinical Education D (Paediatrics)

Credit Points 10 **Level** 4

Prerequisite

400984.2 Cardiorespiratory Physiotherapy AND **400998.3** Neurological Rehabilitation AND **401200.1** Musculoskeletal Physiotherapy B

Corequisite

401106.1 Paediatric Physiotherapy AND **401107.1** Physiotherapy for Chronic Illness and Disease

Incompatible Units

401053 - Clinical Education D (Paediatrics)

Unit Enrolment Restrictions

Students must be enrolled in 4706 Bachelor of Physiotherapy, 4707 Bachelor of Physiotherapy (Honours) or 4733 Bachelor of Physiotherapy (Honours).

Special Requirements - Essential Equipment

Students are required to wear the Western Sydney physiotherapy uniform, which complies with NSW Health uniform requirements; in addition they require a stethoscope and a name badge.

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This clinical education placement will operationalise the knowledge (theory and research) and skills learnt in

Paediatric Physiotherapy. Students will also integrate and apply the knowledge and skills learnt in musculoskeletal, cardiorespiratory and neurological physiotherapy, as well as other health science units to provide appropriate and holistic family-centred care to paediatric clients. Students will be required to assess and treat paediatric clients in acute hospital, rehabilitation or community settings. This approach to management involves the consideration of a child's age, development, and diagnosis during assessment and treatment. Advanced communication skills are required to educate parents and children on the prevention and management of paediatric conditions.

401097.1 Clinical Leadership and Patient Safety

Credit Points 10 **Level** 3

Prerequisite

401069.1 Paramedic Practice 4

Special Requirements - Essential Equipment

Students are expected to have a complete Western Sydney University paramedicine student uniform as per the Western Sydney University Paramedicine Uniform Guideline. Students are expected to have additional equipment as outlined in the Unit Learning Guide. All uniform and equipment must be taken to every shift. Students who attend a shift without the necessary equipment will be refused attendance by the placement partner.

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This unit introduces students to clinical leadership, supervision and patient safety in the context of paramedicine. Students will undertake a 4 week clinical placement block with an emergency ambulance crew, which will in part be used as a basis for reflective learning activities and critical analysis. Students will explore and discuss concepts of clinical leadership and supervision, drawing from their clinical placement experiences. Students will learn about leadership styles, principles of clinical education, mentoring and supervision in the field, clinical governance and patient safety.

401213.1 Clinical Leadership and Professional Relationships

Credit Points 10 **Level** 3

Assumed Knowledge

Professional communication, roles and responsibilities of the Registered Nurse and the Midwife, ethical and legal frameworks for practice, behavioural and social sciences, critical frameworks.

Equivalent Units

400766 Leadership in Graduate Practice, 401022 Leadership in Nursing and Midwifery

Unit Enrolment Restrictions

Students must be enrolled in 4691 Bachelor of Nursing, 4692 Bachelor of Nursing (Graduate Entry) or 4684 Bachelor of Midwifery.

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in

discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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The unit explores fundamental concepts and issues related to leadership in nursing and midwifery. The unit focuses on exploration of contemporary innovative approaches to leadership that may contribute to nursing and midwifery standards, person and woman centred practice, critical reflection and critical thinking in dynamic healthcare contexts.

401217.1 Clinical Leadership in Nursing (Advanced)

Credit Points 10 **Level** 3

Assumed Knowledge

Professional communication, roles and responsibilities of the Registered Nurse, ethical and legal frameworks for practice, behavioural and social sciences, critical thinking and problem-solving skills.

Equivalent Units

401028 Leadership in Nursing (Advanced)

Unit Enrolment Restrictions

Students must be enrolled in 4693 Bachelor of Nursing (Advanced).

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit explores fundamental and advanced concepts and issues related to leadership in nursing to enable the advanced student to reflect on future leadership aspirations. The unit focuses on exploration of contemporary, emerging and innovative approaches to leadership that contribute to nursing standards, person-centred practice, evidence-based leadership, critical reflection and critical thinking in dynamic healthcare contexts.

400981.2 Clinical Pharmacology

Credit Points 10 **Level** 2

Prerequisite

400138.3 Pathophysiology 1

Equivalent Units

400135 - Clinical Pharmacology and Microbiology

Incompatible Units

300505 - Pharmacology

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This unit explores in depth clinical pharmacology fundamental to the practice of allied health (Physiotherapy, Podiatric Medicine and Paramedicine) and complementary medicine (Traditional Chinese Medicine). General principles of pharmacology, pharmacokinetics and pharmacodynamics will be discussed. Key drug categories affecting the main body systems will be introduced in terms of their mechanisms of action, adverse reactions and clinical applications. In the context of antimicrobial pharmacology, general concepts of microbiology will be introduced offering students an understanding of the causative microorganisms, the complex relationship between host and pathogen, the pharmacological actions of antimicrobial drugs and the principles of infection control.

401307.1 Clinical Practice 1

Credit Points 10 **Level** 3

Prerequisite

401301.1 Child Speech and Language Development

Unit Enrolment Restrictions

Students must be enrolled in 4763 Bachelor of Speech Pathology or 4764 Bachelor of Speech Pathology (honours).

Special Requirements - Essential Equipment

Students are required to wear the Western Sydney University Speech Pathology Uniform which complies with NSW Health Uniform requirements.

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This clinical unit will operationalise the knowledge and skills developed in the first three years of speech pathology study to provide appropriate and holistic care for paediatric clients. Students will undertake supervised clinical practice to assess and treat paediatric clients. Clinical experience placements may be in speech pathology units in hospital, community health, school or on-campus settings. Professional competencies addressed in this unit include communication, documentation, reflection and professional and ethical behaviour. In addition, students will develop skills in client assessment, interpretation of findings and education.

401309.1 Clinical Practice 2

Credit Points 10 **Level** 3

Prerequisite

401302.1 Adult Speech and Language

Unit Enrolment Restrictions

Students must be enrolled in 4763 Bachelor of Speech Pathology or 4764 Bachelor of Speech Pathology (Honours).

Special Requirements - Essential Equipment

Students are required to wear the Western Sydney University Speech Pathology Uniform which complies with NSW Health Uniform requirements.

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This clinical unit will operationalise the knowledge and skills developed in the first three years of speech pathology study to provide appropriate and holistic care for paediatric clients. Students will undertake supervised clinical practice

to assess and treat paediatric clients. Clinical experience placements may be in speech pathology units in hospital, community health, school or on-campus settings. Professional competencies addressed in this unit include communication, documentation, reflection and professional and ethical behaviour. In addition, students will develop skills in client assessment, interpretation of findings and education.

401311.1 Clinical Practice 3

Credit Points 10 **Level** 4

Prerequisite

401301.1 Child Speech and Language Development

Unit Enrolment Restrictions

Students must be enrolled in the 4763 Bachelor of Speech Pathology or 4764 Bachelor of Speech Pathology (Honours).

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This clinical unit will operationalise the knowledge and skills developed in the first three years of speech pathology study to provide appropriate and holistic care for paediatric clients. Students will undertake supervised clinical practice to assess and treat paediatric clients. Clinical experience placements may be in speech pathology units in hospital, community health, school or on-campus settings. Professional competencies addressed in this unit include communication, documentation, reflection and professional and ethical behaviour. In addition, students will develop skills in client assessment, interpretation of findings and education.

401313.1 Clinical Practice 4

Credit Points 10 **Level** 4

Prerequisite

401301.1 Child Speech and Language Development

Unit Enrolment Restrictions

Students must be enrolled in 4763 Bachelor of Speech Pathology or 4764 Bachelor of Speech Pathology (Honours)

Special Requirements - Essential Equipment

Students are required to wear the Western Sydney University Speech Pathology Uniform which complies with NSW Health uniform requirements.

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This clinical unit will operationalise the knowledge and skills developed in the first three years of speech pathology study to provide appropriate and holistic care for paediatric clients. Students will undertake supervised clinical practice to assess and treat paediatric clients. Clinical experience placements may be in speech pathology units in hospital, community health, school or on-campus settings. Professional competencies addressed in this unit include communication, documentation, reflection and professional and ethical behaviour. In addition, students will develop skills in client assessment, interpretation of findings and education.

401276.1 Clinical Sciences 1

Credit Points 80 **Level** 1

Incompatible Units

400861 Foundations of Medicine 1

Unit Enrolment Restrictions

Students must be enrolled in 4758 - Doctor of Medicine (MD)

Special Requirements - Essential Equipment

1. Stethoscope
2. Pencil torch
3. White laboratory coat
4. Watch (with a second hand or display)
5. Closed in shoes

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Foundational learning for medicine is provided in this yearlong unit that integrates the biomedical sciences through the use of authentic clinical scenarios. Small group problem based learning and bedside teaching with patients, scaffolded by lectures, tutorials and practicals cover each of the body systems in turn, so that students are well prepared for clinical learning. Students will also learn about the human context of health and disease, medical professionalism, the quality and safety of healthcare, evidence based practice, research and clinical skills through community visits, hospital based sessions and workshops. The Professional Portfolio component within this unit will provide students in the Doctor of Medicine (MD) course with the means to monitor and support their acquisition of professional competencies in medicine. Supported by teaching sessions, learning resources and Professional Advisors, students will collate and review evidence of their learning, such as clinical assessments and case studies, preparatory work and outcomes from research and scholarly projects. By identifying and addressing their learning and professional development needs, students will create their own personalised learning journey as the basis for life-long learning in medicine. The Professional Portfolio will also prepare students for the portfolios used extensively in post graduate specialty training in medicine. The unit outline is available from the link on the left-hand menu.

401277.1 Clinical Sciences 2

Credit Points 80 **Level** 2

Prerequisite

401276.1 Clinical Sciences 1

Incompatible Units

400862 Foundations of Medicine 2

Unit Enrolment Restrictions

Students must be enrolled in 4758 - Doctor of Medicine (MD)

Special Requirements - Essential Equipment

1. Stethoscope
2. Pencil torch
3. White laboratory coat
4. Watch (with a second hand or display)
5. Closed-in shoes

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This Unit is a consolidation of two formerly approved Units (Clinical Sciences 2 and Professional portfolio 2) into one Unit. The Unit content is derived from content of two existing Units that are being retired because of the new Unit being introduced. The reason for the amalgamation of the

two units is that the role of the Professional Portfolio is to assist students to identify and monitor their learning through reflections about their academic and professional performance in the Clinical Sciences unit. Therefore, it is logical to have them both sit within the same unit. Also, the Professional Portfolio and the Clinical Sciences are required to be co-delivered and co-assessed. This would be difficult if they were to be in two separate units and would require new progression rules. Since the two components (Clinical Sciences and Professional Portfolio) were previously co-requisites and co-assessed, if we retain the same 2-unit model, students who fail one unit and pass the other will be required to remediate a unit that they have already passed. This will be unacceptable by students and would be considered a breach of university policy. There are also potential ethical/legal issues in making students incur the cost of repeating a unit they have already passed. In addition, there is potential for students to accrue extra credit points which could prove problematic. Successful student workload requires rewarding with credit points. The total added credit points of passed and remediated units of a repeating student will be greater than credit points achieved by students who do not require remediation.

301042.1 Cloud Computing

Credit Points 10 **Level** 7

Assumed Knowledge

Basic knowledge of networked and computer systems. Basic programming skills.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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Cloud computing has become a driving force for information technology over the past several years, and it is hinting at a future in which we won't compute on local computers, but on centralised facilities operated by third-party compute and storage utilities. Governments, research institutes, and industry leaders are rushing to adopt Cloud Computing to solve their ever-increasing computing and storage problems arising in the Internet Age. This unit provides fundamental knowledge and understanding of the Cloud computing architecture and application. Students will build knowledge of Cloud computing and distributed systems and learn about the development trends of distributed applications and e-research. Students will learn about virtualization and service-oriented architecture and their role in the Cloud computing architectures.

301204.2 Cloud Computing Architecture

Credit Points 10 **Level** 3

Prerequisite

301203.1 Introduction to Cloud Computing AND **300580.3** Programming Fundamentals

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This unit, the second part of the Amazon Web Services (AWS) Academy Cloud Computing Architecture curriculum, provides deeper understanding about advanced cloud computing services and how to architect cloud applications that are scalable, reliable, and efficient in terms of cost and performance. Students will learn advanced cloud

computing concepts including notification and messaging, serverless computing, API gateways, NoSQL databases, content delivery networks, stream processing, and long-term storage. The unit also covers advanced cloud security and infrastructure automation. All these aspects are explored in practice with AWS services. Upon completion of this unit, students will be prepared for the AWS Certified Solutions Architect – Associate exam.

401169.2 Coaching Sport and Recreation Activities

Credit Points 10 **Level** 3

Assumed Knowledge

Completion of two introductory coaching certificates.

Prerequisite

400798.3 PDHPE: Games for Diverse Groups

Equivalent Units

400893 - Ethical Issues in Sport and Athletics, 400799 - Recreational Sports, 100673 - Human Movement 6

Unit Enrolment Restrictions

Students must be enrolled in 4659 Bachelor of Health Science (PDHPE), 4742 Bachelor of Health Science (Health and Physical Education)-Pathway to Teaching (Secondary), 4747 Bachelor of Health Science (Health and Physical Education) or 6001 Diploma in Health Science/ Bachelor of Health Science (Health and Physical Education)

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Coaching Sport and Recreation Activities offers students with a learning experience based on the principles of physical education and sports coaching in variety of sports and recreational activities. This unit builds upon physical activity instruction and teaching games for understanding (game sense) introduced in earlier units. You will have the opportunity to plan, implement, and reflect on your own teaching practice during tutorials and within community sport contexts. You will learn to see things from multiple perspectives based on content delivered by university staff, peers, and external sport organisations. The unit incorporates experience in meaningful situations that will help prepare you for work in a dynamic field of education.

101677.4 Cognitive Processes

Credit Points 10 **Level** 3

Assumed Knowledge

Basic understanding of core concepts of cognition, perception and biological psychology

Prerequisite

101183.3 Psychology: Behavioural Science

Prerequisites will not apply to students enrolled in 1630 Graduate Diploma of Psychological Studies.

Equivalent Units

100016 - Human Learning and Cognition

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Cognitive Processes is the study of the mental processes that underpin attention, perception, decision-making, language, and memory. Conceptual and research questions include: What are the structures and

mechanisms of human memory? What processes underpin acquisition of language, and are the processes similar when we learn a second language? What factors affect attention? How do some people become expert problem solvers? Why do humans make irrational decisions? Contemporary theories will be discussed and evaluated. Investigative research methods including experiments, computer modelling, clinical case studies, and brain imaging are evaluated.

800173.1 Cognitive Science: Research and Application

Credit Points 10 **Level** 7

Assumed Knowledge

Master of Research core units: Research Design 1, Research Literacies or equivalent

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Cognitive science is the interdisciplinary scientific investigation of the mind. Contemporary research in cognitive science conducted by members of the MARCS Institute forms the core of the unit. Research areas to be addressed: plasticity and learning; action and coordination; nonverbal communication; and ageing and cognition. Examples of research questions: Can learning be unconscious? What mechanisms enable interpersonal coordination as seen in music and dance ensembles? Why is it that music elicits strong emotions? How does attention influence perception? How does conditioning explain human preferences? Does social facilitation apply to humans interacting with robots? In what way does ageing impact upon decision making? Applications to the arts, education, health, aging, design, human-machine interaction and artificial intelligence will be discussed.

401040.2 Collaborative Care

Credit Points 10 **Level** 3

Prerequisite

401036.1 Complex Care 1 AND **401222.1** Midwifery Professional Practice 4

Corequisite

401039.1 Complex Care 2 AND **401223.1** Midwifery Professional Practice 5 AND **401225.1** Psychosocial Issues in the Perinatal Period

Unit Enrolment Restrictions

Students must be enrolled in 4684 Bachelor of Midwifery.

Special Requirements - Essential Equipment

Essential Equipment: Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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The Australian College of Midwives and the National Health and Medical Research Council (NHMRC) provide guidelines to assist midwives to recognise when to refer or consult with other midwives or health care practitioners, as well as

collaborative care arrangements. This unit provides students with the knowledge to collaborate with all health professionals. This includes assessing procedures for managing obstetric emergencies; transferring women or newborns; assessing referral pathways; and caring for bereaved families.

100900.4 Comedy and Tragedy

Credit Points 10 **Level** 2

Equivalent Units

B2857 - Comedy and Tragedy

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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This unit will examine the theory, writing and performance of Western Tragedy and comedy. The generic terms "tragedy" and "comedy" will provide signposts for both historical and theoretically modern approaches to a range of plays. Texts selected from the period since 1950 may represent comedy and/or tragedy in popular culture, and may have been written for media other than the stage, such as television and film.

400732.2 Communication in Health

Credit Points 10 **Level** 1

Equivalent Units

400131 - Communication for the Helping Professions, 700062 - Communication in Health (WSTC)

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Communication is integral to professional relationships, whether working individually with a client, educating community members on health matters, or working with other professionals as part of a multidisciplinary team. This unit aims to develop communication skills in preparation for work within the health professions across these areas. Communication skills will include those needed to form therapeutic relationships with individual clients and groups, as well as those required to communicate health information to clients, groups and the wider community. Students will develop skills to establish appropriate working relationships with professional colleagues.

700062.3 Communication in Health (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

400732 - Communication in Health, 400131 - Communication for the Helping Professions

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

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Communication is integral to professional relationships, whether working individually with a client, educating community members on health matters, or working with other professionals as part of a multidisciplinary team. This unit aims to develop communication skills in preparation for work within the health professions across these areas. Communication skills will include those needed to form therapeutic relationships with individual clients and groups, as well as those required to communicate health information to clients, groups and the wider community. Students will develop skills to establish appropriate working relationships with professional colleagues.

700275.1 Communication Skills for Construction Management (WSTC Prep)

Credit Points 10 **Level** Z

Unit Enrolment Restrictions

Students must be enrolled in 7136 Diploma in Building Design Management Extended or 7137 Diploma in Construction Management Extended.

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This unit is designed to improve the English proficiency of Construction Management students to enable them to achieve academic success. The unit assists students to comprehend academic and professional texts, identify key ideas and evidence, and identify and apply certain rhetorical moves which are common in academic communication. It also aims to help students compare and contrast ideas across texts, improve grammatical skills that relate to academic writing, summarise and synthesise information, and understand why, when and how to cite information.

300007.2 Communication Systems

Credit Points 10 **Level** 3

Prerequisite

300057.3 Signals and Systems

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This unit will provide a basic introduction to communication systems and techniques. Specific topics covered include energy and power spectral density, amplitude modulation, frequency modulation, pulse modulation, an overview of digital modulation techniques, noise in communication systems and an overview of current telecommunication systems; spread spectrum systems, optical communication systems, radio broadcasting and mobile communication systems.

101595.2 Community and Social Action

Credit Points 10 **Level** 2

Equivalent Units

101300 - Education for Social Action

Special Requirements - Essential Equipment

Access to online materials

This unit will provide an understanding of social change processes and the strengths and challenges involved in social change for the 21st century. Students will be able to identify links between change at local/global and individual/structural levels. They will focus on an area of particular interest to themselves and on the skills involved in bringing about change. At the end of this unit students will have acquired the knowledge required to be active change agents.

401283.1 Community Sport Development

Credit Points 10 **Level** 2

Assumed Knowledge

A basic understanding of the sports industry, and an appreciation of the diverse communities that exist locally and internationally.

Prerequisite

401243.1 Sport for Social Development

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The unit develops students' knowledge and understanding of the concept of community sports development and its role in addressing key issues of social inclusion, diversity, and health promotion. Students explore local and national Australian policies and initiatives, with a focus on monitoring and evaluating and exploring evidence around the social impact of sport. The module facilitates students' knowledge and understanding of community needs within the context of sport and active recreation. Further, students will propose innovative sport development initiatives and programs where students will design and implement a localised sport development initiative in partnership with a local sport organisation.

102003.1 Comparative Nationalism

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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Nationalism, an ideology considered by many to have passed its peak, now dominates world politics and permeates political discourse. This phenomenon is crucial to understanding Trump's America First campaign, the problems affecting the EU and secession, the tensions and conflicts that are garbed in a religious rhetorical veil, and which constitute much of the agenda of today's "war on terror." What is nationalism? What is national identity? What are the main forms of its articulation in history and in the present, across geographical borders, class boundaries, gender and generational cleavages? This unit will survey the major theories of nationalism, and examine diverse examples of historical and contemporary nationalisms, predominantly within the European context. This is an upper level unit whose readings draw on a variety of approaches and examples and aim at providing a solid introduction to the scholarly literature.

300838.1 Comparative Physiology

Credit Points 10 **Level** 2

Assumed Knowledge

Basic biology, chemistry and maths

Prerequisite

300818.1 Introduction to Physiology OR **300936.1** Functional Proteins and Genes OR **300801.1** Animal Science OR **300816.1** Cell Biology OR **300802.1** Biodiversity

Equivalent Units

300608 - Animal Physiology

Unit Enrolment Restrictions

Successful completion 60 credit points at Level 1 and 20 credit points at Level 2.

Special Requirements - Essential Equipment

Footwear appropriate to a laboratory, safety goggles & laboratory coat

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Building on the underlying physical and chemical principals/laws that define physiology, this unit from both a systems (e.g. Respiratory) and environmental (e.g. Marine) perspective, seeks to compare the functional physiology of organisms at all levels of organisation. Particular attention will be paid to respiration, temperature tolerance & regulation, living in water, sensory and neurophysiology. Students will have the opportunity to carry out a defined research project.

401036.2 Complex Care 1

Credit Points 10 **Level** 2

Prerequisite

401034.1 Midwifery Knowledge 3 AND **401221.1** Midwifery Professional Practice 3

Corequisite

401222.1 Midwifery Professional Practice 4

Unit Enrolment Restrictions

Students must be enrolled in 4684 Bachelor of Midwifery.

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit introduces students to complexities in health that emerge during pregnancy, labour, birth and the postnatal period which require additional care when the health of the mother and/or neonate may be compromised. This module also focuses on the midwifery care of the sick neonate.

401039.2 Complex Care 2

Credit Points 10 **Level** 3

Prerequisite

401036.1 Complex Care 1 AND **401222.1** Midwifery Professional Practice 4

Corequisite

401223.1 Midwifery Professional Practice 5 AND

401040.1 Collaborative Care AND **401225.1**

Psychosocial Issues in the Perinatal Period

Unit Enrolment Restrictions

Students must be enrolled in 4684 Bachelor of Midwifery.

Special Requirements - Essential Equipment

Essential Equipment: Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

.....

This unit continues to explore the complex issues surrounding childbirth with a particular emphasis on those women who have pre-existing conditions. Dilemmas and challenges that surround infertility, medical conditions and previous surgical conditions as well as environmental issues that may impact on pregnancy and or birth, are examined. In addition, the unit includes the implications and management for the care of the associated neonate.

401108.2 Complex Cases and Professional Issues

Credit Points 10 **Level** 4

Prerequisite

401107.1 Physiotherapy for Chronic Illness and Disease AND **401106.1** Paediatric Physiotherapy

Corequisite

401110.1 Clinical Education B (Rehabilitation) OR

401111.1 Clinical Education C (Ambulatory Care) OR

401112.1 Clinical Education D (Paediatrics) OR **400985.2**

Clinical Education A (Acute Care) AND **401109.1**

Integrating Research into Physiotherapy Practice

Incompatible Units

401049 - Complex Cases and Professional Issues

Unit Enrolment Restrictions

Students must be enrolled in course 4706 Bachelor of Physiotherapy

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In this unit, students will further develop their clinical reasoning with respect to clients with complex presentations in areas such as aged care, women's health, return to work, private practice and culturally and linguistically diverse individuals. Complex information will be synthesized such as the theory, research and skills across the spectrum of physiotherapy care, and theories

related to professionalism, ethics, safety and communication. This unit also contains the discussion of a range of recent professional developments in physiotherapy, which are relevant to entry level practitioners. These include registration as a physiotherapist, continuing education, workload control strategies, duty of care responsibilities and quality improvement processes (including critical reflection), employment strategies and career pathways.

401310.1 Complex Communication Needs

Credit Points 10 **Level** 4

Prerequisite

401306.1 Alternative and Augmentative Communication Systems

Unit Enrolment Restrictions

Students must be enrolled in 4763 Bachelor of Speech Pathology or 4764 Bachelor of Speech Pathology (Honours)

.....

The unit focuses on complex cases arising in speech pathology, multi-modal communication methods and acquired disabilities and application of Alternative & Augmentative Communication (AAC) systems. Assessment and intervention methods for people with complex communication needs and those who use AAC are considered in detail. The scope includes acquired disabilities and various genetic conditions such as cleft palate and other craniofacial anomalies.

300911.1 Complex Forensic Studies

Credit Points 10 **Level** 3

Prerequisite

300864.1 Imaging Science & Photographic Evidence AND

300873.1 Crime Scene Investigation AND **300843.1**

Forensic and Environmental Analysis AND **300806.1**

Forensic Science

Equivalent Units

300373 - Complex Forensic Case Studies

Unit Enrolment Restrictions

Students must be enrolled in 3589 Bachelor of Science (Forensic Science) or 3562 Bachelor of Science (Advanced Science).

.....

This is an advanced and integrating capstone unit for students studying forensic science. It incorporates previous science, forensic science and social science units to form a comprehensive examination of the functionality of forensic evidence within the contemporary Australian judicial system. This capstone highlights the needs for an interdisciplinary approach to define and critique forensic science evidence from various perspectives including science, law, criminology, policing and social science. Students are required to use their skills and knowledge with additional independent research and inquiry using a range of set literature. The unit will study a range of contemporary issues including how the judicial system evaluates the reliability of evidence from an admissibility threshold, identification evidence from CCTV, contextual bias with forensic examination, contamination issues with forensic

evidence and methods of expressing forensic findings and/or significance.

300987.1 Composite Structures

Credit Points 10 **Level** 4

Prerequisite

300730.2 Steel Structures AND **300736.2** Concrete Structures (UG)

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This unit builds on knowledge gained in steel and concrete structures, especially the design of structural members using either steel or concrete. Students will learn the design of composite beams, floors, columns and connections based on Australian and International standards as well as mechanics of materials.

300999.1 Computational Fluid Dynamics

Credit Points 10 **Level** 4

Assumed Knowledge

Numerical methods, thermal dynamics and fluid mechanics

Prerequisite

300027.2 Engineering Computing AND **300759.1** Thermal and Fluid Engineering

.....

This unit introduces students to the fundamentals of computational fluid dynamics. The unit covers the conventional methods for solving the ordinary and partial differential equations. The numerical method for solving the inviscid flow and the viscous flow problems will be introduced. The students learn the application of the commercial software in the engineering problems.

301000.2 Computer Aided Engineering

Credit Points 10 **Level** 4

Prerequisite

300488.4 Numerical Methods in Engineering

Special Requirements - Essential Equipment

Computer Aided Engineering Packages (Computer Aided Design and Finite element analysis) – ANSYS and SolidWorks

.....

This unit describes the basics and fundamentals of computer aided engineering focusing on the advanced topics of finite element methods, which is a powerful numerical tool for analysing a wide range of engineering problems. The objective of this unit is to advance students' understanding on the finite element method (FEM)-based computer aided engineering (CAE) and its applications in the fields of solid mechanics, fluid mechanics, thermodynamics and heat transfer and product design and development as well. Academic skills on research and communication of students are also achieved through conducting FEM-based CAE projects.

301031.2 Computer Algebra

Credit Points 10 **Level** 2

Assumed Knowledge

Students should be comfortable with high school level of Mathematics and have passed Mathematics 1A. This is required to carry out more advanced projects in the unit.

Prerequisite

300672.2 Mathematics 1A

.....

This unit will introduce the popular computational software Mathematica, through which students will explore and investigate real-world mathematical problems. The unit promotes an experimental side of mathematics and will employ symbolic computation to gain insight and intuition into problems, to discover mathematical patterns and relationships, and create impressive graphics to expose mathematical structures.

300093.7 Computer Graphics

Credit Points 10 **Level** 3

Prerequisite

300147.4 Object Oriented Programming OR **300581.4** Programming Techniques OR **300903.1** Programming Techniques (Advanced) OR **300582.5** Technologies for Web Applications

.....

Computer Graphics will examine elementary graphics concepts, algorithms and programming skills for producing graphical applications, in both two-dimension (2D) and three-dimension (3D) using Open GL. Techniques and algorithms will be programmed in Processing, which is a very easy-to-learn programming language yet powerful and comprehensive.

300565.2 Computer Networking

Credit Points 10 **Level** 2

Assumed Knowledge

Fundamentals of computer architecture, binary and hexadecimal numbering systems, and programming principles. They should also have a working knowledge of the World Wide Web.

Equivalent Units

300094 - Computer Networking Fundamentals, 300086 - Applied Data Communications and Networking, 700012 - Computer Networking (WSTC)

.....

Computer Networking is an introductory unit in computer systems networking. It covers basic networking technologies, Ethernet fundamentals, ISO OSI model, routing, switching and subnetting, the Internet architecture, networking protocols including TCP/IP, important OSI layer 2 and 3 networking device fundamentals, basic network management and security issues. This unit is also the first of three units, which will prepare students for industry based networking certification (CCNA).

300946.1 Computer Networking (Advanced)

Credit Points 10 **Level** 2

Assumed Knowledge

Fundamentals of computer architecture, binary and hexadecimal numbering systems, and programming principles. A working knowledge of the World Wide Web.

Incompatible Units

300094 - Computer Networking Fundamentals, 300086 - Applied Data Communications and Networking, 300565 - Computer Networking

Unit Enrolment Restrictions

Students must be enrolled in 3684 Bachelor of Information and Communications Technology (Advanced), 3685 Bachelor of Computing (Information Systems) Advanced, 3688 Bachelor of Information Systems Advanced or 3745 Bachelor of Information Systems Advanced/Bachelor of Business.

.....

This unit introduces students to computer systems networking. It covers basic networking technologies, Ethernet fundamentals, ISO OSI model, routing, switching and subnetting, the Internet architecture, networking protocols including TCP/IP, important OSI layer 2 and 3 networking device fundamentals, basic network management and security issues. This unit is also the first of three units, which will prepare students for industry based networking certification (CCNA). Students in this advanced unit will be required to undertake individual assessment activities demonstrating a high level of technical and applied theoretical competency.

70012.3 Computer Networking (WSTC)

Credit Points 10 **Level** 2

Assumed Knowledge

Fundamentals of computer architecture, binary and hexadecimal numbering systems and programming principles. Students should also have a working knowledge of the World Wide Web.

Prerequisite

Students enrolled in 7067 Diploma in Information and Communications Technology Extended, 7083 Bachelor of Information and Communications Technology Extended (WSTC First Year Program) and 7134 Diploma in Information and Communications Technology Extended – ICT must pass 700199 Academic Communication 2 (WSTC Prep) or 700208 English for Tertiary Study 2 (WSTC Prep) or 700210 Introduction to Academic Communication 2 (WSTC Prep), and must pass 700201 Computer Studies (WSTC Prep) before enrolling in this unit. Students enrolled in 7138 Diploma in Information and Communications Technology Extended-ICT, 7139 Diploma in Information and Communications Technology Extended, 7140 Diploma in Information and Communications Technology Extended–IS and 7141 Diploma in Information and Communications Technology Extended-HIM must pass 700276 Academic & Professional Communication (WSTC Prep) and must pass 700205 Academic Skills for ICT (WSTC Prep) before enrolling in this unit.

Equivalent Units

300094 - Computer Networking Fundamentals, 300086 - Applied Data Communications and Networking, 300565 - Computer Networking

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diploma courses must have passed 40 credit points of preparatory units in order to enrol in this unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

.....

This is an introductory unit in computer systems networking. It covers basic networking technologies, Ethernet fundamentals, ISO OSI model, routing, switching and sub-netting, the internet architecture, networking protocols, including TCP/IP, important OSI layer 2 and 3 networking device fundamentals, basic network management and security issues. This unit is also the first of three units which will prepare students for industry based networking certification (CCNA).

300095.5 Computer Networks and Internets

Credit Points 10 **Level** 3

Assumed Knowledge

Fundamentals of data communications and computer networking, such as that covered in the prerequisite unit.

Prerequisite

300565.2 Computer Networking OR **300946.1** Computer Networking (Advanced)

.....

This unit extends on the work undertaken in the prerequisite unit and provides students with an in-depth explanation on the role of the architecture, components, and operations of routers and switches in a small network. Students will configure and troubleshoot routers and switches and resolve common issues with common routing protocols, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. This is the second of three units that prepares the student for industry-based networking certification (CCNA).

300096.6 Computer Organisation

Credit Points 10 **Level** 2

Prerequisite

300580.2 Programming Fundamentals OR **300027.2** Engineering Computing AND **200025.2** Discrete Mathematics OR **200237.4** Mathematics for Engineers 1

.....

This unit is designed for computer science students, particularly those interested in systems programming and hardware development. The students will learn about the interface between the hardware and software of a computer system. This will involve study of some aspects of computer architecture and low level interfacing to gain an insight into central processing unit (CPU) organisation at

the assembly language level. After completing this unit students will be able to write procedures in an assembly language, use their understanding of the relationship between the instruction set architecture and the implementation of high level languages to write efficient programs.

300569.2 Computer Security

Credit Points 10 **Level** 3

Assumed Knowledge

Students are expected to have general understanding on computer systems; computer fundamentals, databases, and web technologies.

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This unit aims in particular at, but is not limited to, the implementation and management of security and privacy policies of organisations within the standards and legal framework that is also applicable to the Australian standards.

700201.3 Computer Studies (WSTC Prep)

Credit Points 10 **Level** Z

Equivalent Units

900028 - Computer Studies (UWSC)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

.....

This Computer Studies unit introduces and develops basic competencies in using computers and application software for the Building Design Management and Construction Management industries. The ability to use computers and application software for creating word-processed documents, spreadsheets, creating and analysing designs and managing projects has become an integral part of the required skill set for these industries. The unit has been developed to enhance students' practical ability as well as build a theoretical foundation for further study.

301126.1 Concepts in Human Anatomy

Credit Points 10 **Level** 1

Assumed Knowledge

HSC Biology

Equivalent Units

300825 - Introduction to Anatomy

Unit Enrolment Restrictions

Students must be enrolled in the following courses: 3673 Bachelor of Medical Science, 3682 Bachelor of Medical Science (Advanced), 3733 Bachelor of Medical Science (Forensic Mortuary Practice), 3589 Bachelor of Science (Forensic Science). Students will be required to attend two x 2 hour practicals at Campbelltown (Anatomy labs).

Special Requirements - Essential Equipment

All students required to have lab coat at all dry- lab sessions. Students opting to attend the wet labs during non-teaching weeks will be required to complete an online

anatomy induction before being granted entry, and will need to provide their own lab coat.

.....

This unit provides a basic understanding of human embryological development, anatomical terminology, and a range of foundation concepts in human anatomy. Students will have an opportunity to attend occasional 'wet' laboratory sessions where the learning of anatomy will be enhanced through the study of human cadaveric material. The wet laboratory sessions are not available on all campuses, and therefore students may need to travel in order to attend.

700266.1 Concepts in Human Anatomy (WSTC)

Credit Points 10 **Level** 1

Assumed Knowledge

HSC Biology, and/or at least one first year level biology unit: Biodiversity and/or Cell Biology

Equivalent Units

301126 - Concepts in Human Anatomy

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University The College. Students enrolled in Science Extended Diploma courses 7086 or 7087 must have passed 40 credit points. Students enrolled in the combined Diploma/ Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

Special Requirements - Essential Equipment

Safety glasses, lab coat, lab book

.....

This unit provides a basic understanding of human embryological development, anatomical terminology, and a range of foundation concepts in human anatomy. To enhance the anatomy learning experience, attendance at the Campbelltown anatomy laboratories is required.

102494.1 Conceptualising Islam

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

.....

The 'Muslim question' has been a topic of interest to Western scholarship for over four hundred years. This unit introduces students to multidisciplinary approaches to the study of Islam and invites students to consider the construction and deconstruction of Islamic Studies as a field of study at various stages of history. The unit provides students with the opportunity to gain increased awareness of both the debates within the field and those that scrutinise the field. That is, becoming comfortable with interrogating the cluster of theoretical and methodological strategies for scholarly inquiry into Islamic Studies.

300736.2 Concrete Structures (UG)

Credit Points 10 **Level** 3

Assumed Knowledge

Knowledge of engineering mechanics and statics.

Prerequisite

300733.2 Introduction to Structural Engineering

Corequisite

300732.2 Structural Analysis

Equivalent Units

85251 - Concrete Structures (UG)

.....

This unit covers the basic 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.

300855.1 Conservation Biology

Credit Points 10 **Level** 3

Prerequisite

300802.1 Biodiversity AND **300836.1** Botany OR **300838.1** Comparative Physiology OR **300865.1** Plant Physiology OR **300845.1** Genetics OR **300839.1** Ecology

Equivalent Units

300466 - Environmental Biology, 300617 - Conservation Biology

Unit Enrolment Restrictions

Successful completion of 40 credit points at Level 2 and 20 credit points at Level 3. Students are required to wear a lab coat and enclosed footwear.

Special Requirements - Essential Equipment

Students are required to wear a lab coat and enclosed footwear.

.....

Most species disappearances have occurred in major extinction events spread over geological time. Are we in the midst of and the cause of another mass extinction event? This unit will explore this idea by examining the processes that have led to, and are leading to species extinction and the current biodiversity crisis. Many of the methods and issues used in and associated with conservation will be covered in a variety of case studies, field and laboratory activities.

301213.1 Construction Communication

Credit Points 10 **Level** 1

Equivalent Units

300674 - Engineering, Design & Construction Practice, 300975 - Professional Competencies, 700038 - Engineering Design and Construction Practice (UWSC), 700107 - Engineering, Design and Construction Practice (UWSC Assoc Deg), 700154 - Professional Competencies

Unit Enrolment Restrictions

Students must be enrolled in courses 2607 - Bachelor of Construction Management, 3727 - Bachelor of Construction Technology or 3692 - Bachelor of Building Design Management

.....

This unit encourages students to explore professional responsibilities and challenges faced by construction professionals. Students are introduced to the construction profession through the use of industry case studies and project problems. Students engage in a research and problem-solving task that addresses sustainability imperatives and fosters fundamental research and communication skills. Special emphasis is placed on academic and business literacy, project management and teamwork which equip students for subsequent academic and professional contexts.

200504.3 Construction Economics

Credit Points 10 **Level** 4

Assumed Knowledge

Building construction including residential, light industrial and small commercial as covered in the subjects Building 1 and Building 2 and building measurement as covered in quantity surveying 1 and Estimating as covered in Estimating 1.

Corequisite

Students in 2607 Bachelor of Construction Management must enrol in 300724 Industry Based Learning before enrolling in this unit.

.....

This subject is designed to provide students with: an understanding of economic principles, national and international economic issues; general investment issues; how the national and international economy functions; how the building industry and the building firm relates to the national and international economy; and how economic reasoning may be applied to various problems in the building industry.

300886.1 Construction in Practice 1

Credit Points 10 **Level** 3

Assumed Knowledge

Local Government planning requirements, residential construction details, quantity surveying, contract documentation, site planning

Prerequisite

300706.2 Building 1 AND **300729.1** Graphic Communication and Design AND **300707.2** Building 2

Equivalent Units

200482 - Construction in Practice 1

.....

This unit is designed to allow the student to gain experience with the complexity of the construction industry by integrating knowledge from earlier units. The unit involves group work on construction planning and management,

regulatory control and client liaison required for initiating and completing a residential construction project.

200484.5 Construction in Practice 3

Credit Points 10 **Level** 4

Corequisite

Students in 2607 Bachelor of Construction Management must enrol in 300724 Industry Based Learning before enrolling in this unit.

Equivalent Units

BG408A - Building in Practice 3

Unit Enrolment Restrictions

Successful completion of 200 credit points.

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This unit enables students to integrate and develop knowledge gained earlier in the course allowing them to simulate industry practice. Students are given a brief to undertake large and complex construction projects (eg. high rise buildings, airport construction, or sports stadium construction). They then take account of regulatory control, financial limitations, and stakeholder impacts whilst managing a team and being flexible and responsive to changing demands.

200503.2 Construction Information Systems

Credit Points 10 **Level** 3

Assumed Knowledge

Students must be familiar with spreadsheet and database software. Students should also have a basic understanding of contract administration.

.....

This unit is designed to provide skills and knowledge for information management technology and practice as it relates to the building industry. The unit gives an overview of information management, data collection and storage, information classification systems, communications, specialist computer applications and artificial intelligence.

301160.1 Construction Management Honours Thesis

Credit Points 20 **Level** 5

Incompatible Units

300536 - Major Project in Construction

Unit Enrolment Restrictions

Students must be enrolled in course 2607 Bachelor of Construction Management. Students must have successfully completed 220 credit points and must have a course GPA equal to or greater than 5.0.

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This unit provides honours level students with the opportunity to undertake research on a specialist topic within their program of undergraduate studies. Each student is assigned to a supervisor (an expert researcher) based on the chosen research topic. Students are expected to meet the supervisor regularly and work progressively to complete the research. This research will be an extended

investigation of a chosen subject that is undertaken using appropriate research methods. In addition to the specialist knowledge on the chosen research topic, students will learn a range of skills including academic writing, project management, critical thinking and analytical skills.

300728.3 Construction Planning

Credit Points 10 **Level** 3

Assumed Knowledge

A basic understanding of the construction process of residential and commercial buildings and estimating principles.

Prerequisite

300707.2 Building 2 OR **200486.3** Quantity Surveying 1 OR **301208.1** Building Measurement

Equivalent Units

PL302A - Construction Planning

.....

This unit is intended to provide students with the ability to organise the resources required for a major construction project; to plan the sequence and timing of construction operations; and to assess the risk inherent in achieving a construction schedule.

300720.2 Construction Technology 1 (Civil)

Credit Points 10 **Level** 2

Prerequisite

300706.2 Building 1 OR **300707.2** Building 2

Equivalent Units

BG204A - Construction Technology 1 (Civil)

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This unit develops students' knowledge and skills in appraising site requirements for construction purposes, both at the pre tendering and construction phase of a project. Content: Soil classification, site investigation, site safety, plant and equipment, trenches, detention/retention pits and basins, temporary structures, demolition, site dewatering, building surveying, and site environmental control.

300721.4 Construction Technology 2 (Substructure)

Credit Points 10 **Level** 2

Assumed Knowledge

Basic knowledge of building technology from TAFE, university or practical experience.

Equivalent Units

BG207A - Construction Technology 2 (Substructure)

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This unit will further develop students knowledge of substructures. Students will investigate how applied loads and the foundation reaction determine the construction of different retaining walls and footings. Students will specifically examine how surface and ground water affect a sub-structure. Students will be expected to solve difficult

foundation problems using innovative techniques, including underpinning, grouting and temporary substructures. The types of sub-structures include strip footings, waffle-pod slabs, end-bearing and friction piles, gravity and cantilever retaining walls and tied-earth structures.

200502.4 Construction Technology 3 (Concrete Construction)

Credit Points 10 **Level** 3

Assumed Knowledge

Awareness of standard construction systems for residential and commercial construction.

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The aim of this unit is to introduce students to the concept of structures, loads and the effect of loads on structures in relation to concrete construction. Students will have an in-depth understanding of concrete as a construction material. It covers the construction technology aspects of concrete structural components and systems, including beams, columns, slabs and frames. Emphasis will be given to formwork design and construction. Students will be introduced to the relevant Australian Standards for concrete construction. The unit also aims at developing students' ability to deal professionally with other building professionals, including architects and structural engineers.

200470.4 Construction Technology 4 (Steel Construction)

Credit Points 10 **Level** 3

Assumed Knowledge

300706 Building 1, 300707 Building 2, 300720 Construction Technology 1 (Civil), 200502 Construction Technology 3 (Concrete Construction)

.....

This unit deals with the construction of structural steelwork. Students will gain better understanding of mechanical properties of steel. It covers various components in structural steelwork, and their behaviour under loads. Students will also be introduced to various frame systems in multi-story and high-rise construction and relevant Australian Standards for steel construction. Emphasis will be given to safe erection and assembly of structural steelwork. Due consideration will be given to the requirements of Workcover in relation to site safety and material handling. An introduction will also be given for Steel-concrete composite construction.

200471.4 Construction Technology 5 (Envelope)

Credit Points 10 **Level** 4

Corequisite

Students in 2607 Bachelor of Construction Management must enrol in 300724 Industry Based Learning before enrolling in this unit.

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After undertaking this unit, you should understand the way internal spaces are designed and constructed to optimise

thermal, visual and acoustic comfort and for energy efficiency.

300725.3 Construction Technology 6 (Services)

Credit Points 10 **Level** 4

Corequisite

Students in Bachelor of Construction Management must enrol in 300724 Industry Based Learning before enrolling in this unit.

Equivalent Units

BG406A Construction Technology 6 (Services)

Unit Enrolment Restrictions

Students must be enrolled in Bachelor of Construction Management, Bachelor of Engineering, Bachelor of Engineering Advanced (Honours), Bachelor of Building Design Management, Bachelor of Engineering (Honours) or Diploma in Building Design Management/Bachelor of Building Design Management.

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To provide students with a vehicle to develop knowledge and skills needed to comprehend the design of services in major buildings, and in so doing engender a life-long interpretation of the intricacies of physical installation and their critical sequence in the construction process.

301061.1 Construction Work Safety

Credit Points 10 **Level** 1

Equivalent Units

700256 - Construction Work Safety (WSTC)

.....

This introductory unit describes the context of safety management in the Australian construction industry. The topics covered include: The poor long-term record in the construction industry on Workplace Health and Safety (WHS); Strategies for improving the industry performance; Introduction to hazard identification and risk management; and Individual safety awareness and personal responsibility.

700256.1 Construction Work Safety (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

301061 - Construction Work Safety

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

.....

This unit describes the context of safety management in the Australian construction industry. The topics covered include: The poor long-term record in the construction

industry on Workplace Health and Safety (WHS); Strategies for improving the industry performance; Introduction to hazard identification and risk management; and Individual safety awareness and personal responsibility.

200084.2 Consumer Behaviour

Credit Points 10 **Level** 1

Equivalent Units

61721 - Consumer Behaviour, MK105A - Buyer Behaviour, 700027 Consumer Behaviour

.....

A focus on the consumer is critical in marketing philosophy. Effective marketing strategies are necessarily formulated as a result of the understanding of basic consumer behaviour. The aim of the unit Consumer Behaviour is to introduce students to consumer behaviour as a critical component in marketing philosophy, and fundamental to the development of effective marketing strategies. This unit applies concepts, theories and models derived from disciplines such as sociology, anthropology, psychology, economics, and mass communications theory to a consumer context. Students will learn to apply such concepts, theories and models through a range of individual and collaborative means using a blended learning design that draws on current and future consumer trends in various marketplaces.

102413.1 Consumer Culture

Credit Points 10 **Level** 3

Equivalent Units

100994 - Consumer Culture

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course

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Consumption and consumerism are words that frequently have negative connotations in popular usage, yet globally, rates of consumption and consumerism continue to grow. This unit presents cultural research that investigates the range of consequences - positive, negative or otherwise - that the rise of consumer culture has brought to contemporary global societies. Students analyse a range of cultural products and practices, and consider topics including the ethics of consumption, the role of consumption in forming identities, how consumer culture relates to class, gender, race and ethnicity, the rise of brands, and consumer culture in the digital age.

300928.1 Consumer Issues in Nutrition

Credit Points 10 **Level** 3

Assumed Knowledge

An understanding of human nutrition and health. Computer literacy.

Equivalent Units

300360 - Consumer Issues in Nutrition

.....

This unit explores current food and nutrition issues. It introduces students to the factors that influence public

health nutrition and explores (a) the contribution food systems and food security makes to consumer wellbeing; (b) the changing global marketplace and the impact of globalisation on food security and ecological sustainability; and (c) the complex inter-connections between government policy, globalisation, consumerism and human health. Students will assess nutritional status from available data and explore the role of community food systems. Students will also be introduced to social research methods and plan a social research study to address a nutrition related issue.

200922.1 Consumers, Firms and Markets

Credit Points 10 **Level** 1

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This unit is an introduction to microeconomics. It provides students with an understanding of basic concepts such as value, rational consumer behaviour, the behaviour of firms in various market structures, the efficiency and failings of markets, the distribution of wealth and income, and the role of government regulation and intervention. It illuminates these concepts by considering and debating their application to contemporary economic and social issues such as: the influence of marketing on consumer choices, the concentration of market power in Australian industries, rising income and wealth inequality, minimum wage laws, and governmental responses to environmental problems and climate change.

102048.1 Contemporary Childhoods

Credit Points 10 **Level** 2

Equivalent Units

101649 - Contemporary Perspectives of Childhoods

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In contemporary Australia care and education provided for young children is both diverse and complex, as a result of a range of historical, philosophical, sociological and political factors. In recent years traditional understandings of how society views 'childhood' and the 'universal child' have been challenged by new discourses associated with the reconceptualisation of childhood. From an almost exclusive focus on children as the objects of socialization, the new sociology of childhood is now interpreting children and the experience of childhood as dynamic, social, multiple and relational. Broadening this sociological gaze has led to new approaches in theorising and conceptualising the study of childhood and the social world of the child. This unit will explore a range of approaches and research about the lives of children in historical and contemporary societies and in local and global settings. Students will investigate the multiplicity and social meaning of childhood; the regulating of children and their bodies, including the role of schools and other social institutions; and the cultural and social world of the child, in particular their agency, rights and exclusion. Beyond this, students in this unit will have a chance to explore the ethics and methodological issues of how research on and with children frames the way professionals work with children.

401196.1 Contemporary Issues in Child and Adolescent Health

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 80 credit points.

Special Requirements - Essential Equipment

Essential Equipment: Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit begins with a brief examination of socio-cultural theories of childhood and adolescence as a background for the critical analysis of current debates about the health and wellbeing of children and adolescents. Case studies will be used to explore contestable topics in child and youth health from an interdisciplinary perspective. The unit will address issues of child protection and parental responsibility in the mainstream community, Aboriginal and Torres Strait Islanders, and refugee health care settings. Knowledge gained in this unit will assist beginning practitioners in a variety of disciplines to take informed positions on topics relevant to child and adolescent health.

401194.2 Contemporary Issues in Public Health

Credit Points 10 **Level** 3

Assumed Knowledge

Fundamentals of public health, social determinates of health and the Australian health care system; and the fundamentals of epidemiology.

Prerequisite

400285.2 Public Health AND **300872.1** Epidemiology

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This unit focuses on contemporary issues in public health. These priority concerns include chronic and age-related disease, communicable disease, mental health, sexual and reproductive health, child and maternal health, indigenous health, migrant health and environmental health. You will bring together your knowledge in public health, epidemiology, sociology and economics to identify and evaluate social and environmental factors that affect these health issues. By evaluating effectiveness of current public policy you will make recommendations for policy and program development to improve outcomes for contemporary health issues. These topics will be explored in national and international contexts.

200108.2 Contemporary Management Accounting

Credit Points 10 **Level** 2

Prerequisite

200116.4 Management Accounting Fundamentals

Equivalent Units

61122 - Advanced Management Accounting, AC303A - Advanced Management Accounting (V1), H2762 - Management Accounting

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This unit critically examines the limitations of traditional management accounting techniques and consider the factors that influence the design of management accounting systems (MAS) and choice of management accounting technique in the contemporary business environment.

200568.3 Contemporary Management Issues

Credit Points 10 **Level** 3

Prerequisite

200571.2 Management Dynamics OR **200912.1** Enterprise Leadership OR **MG102A.3** Management Foundations

Equivalent Units

H3740 - Contemporary Management Issues

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This is an engaged unit that requires students to undertake real-world projects to support selected industry or community partners. The unit blends in-class and online activities as well as individual and group work, with self-directed problem-based learning. The focus of students' learning is on sustainable business, including the economic, social and environmental dimensions of business. The in-class workshops support students to conduct the required engagement activities with industry or community partners. As a third-year unit, attention is given to students' application of the knowledge and skills already acquired in their degree programs, and on the practice of business management skills.

400220.2 Contemporary Professional Practice in Mental Health Nursing

Credit Points 10 **Level** 7

Assumed Knowledge

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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Students require access to a computer and the internet to be able to engage in the required activities on vUWS and submission of assignments.

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Professional practice in Mental Health Nursing is continually evolving to meet changing social, political and legal requirements related to mental health issues. These requirements include changes in social and political understandings of mental illness and the rights and responsibilities of consumers, carers and providers. There has also been increased emphasis on health promotion, prevention and education in population specific contexts

(eg, aged care, child and family, adolescent mental health, alcohol and other drugs services). Mental Health Nurses thus face challenges to develop practice that is congruent with the context of these changing requirements. This unit aims to provide a basis of inquiry into contemporary practice (s) from which the nurse can build an ongoing understanding and appreciation of changing influences.

100960.2 Contemporary Society

Credit Points 10 **Level** 1

Equivalent Units

700132 - Contemporary Society (WSTC)

The unit introduces to students the socio-political organisation and cultural forms of the contemporary world focused on the production and structure of social relations, building on students' social and cultural experience. The unit will focus on the production and operation of social inequalities specifically gender, race/ethnicity and class and draw on key sociological and cultural studies approaches highlighting the role of culture and language in the production and maintenance of social inequalities with an emphasis on bilingualism and biculturalism in the consideration of race/ethnicity in contemporary Australia.

102201.1 Contemporary Theories of Religion and Society

Credit Points 10 **Level** 7

Assumed Knowledge

Students must have completed an undergraduate degree or equivalent.

Covering Australia and other parts of the world, this unit explores current social theories of religion at the micro, meso, macro, and cyber levels. Starting from the micro or individual level, it deals with theories on the emergence of post-dogmatic religion and the growth of subjectivised forms of religion in the non-institutional field. It then moves to the group or meso level and covers the activities of religious and non-religious groups in the public and post-secular sphere. It then reaches the global (macro) level to discuss notions of multiple modernities, transnationalism and civilizational analysis. Finally, at the cyber level the unit analyses recent theories on the impact of new social media on religion.

400894.2 Contemporary Youth Health Issues

Credit Points 10 **Level** 3

Incompatible Units

400280 - Sexuality, 400791 - Introduction to Drug Use in Society

Unit Enrolment Restrictions

Students must be enrolled in 4659 Bachelor of Health Science (PDHPE), 4549 Bachelor of Health Science (PDHPE), 4742 Bachelor of Health Science (Health and Physical Education)-Pathway to Teaching (Secondary), 4747 Bachelor of Health Science (Health and Physical Education), 6001 Diploma in Health Science/Bachelor of Health Science (Health and Physical Education)

The unit explores contemporary health issues related to young people. Students will examine a range of topics from a multidisciplinary approach, which include the social, cultural, political and biological factors that influence and construct young people's lives and health. Students will explore pathogenic and salutogenic approaches to understanding and promoting young people's health. When considering and analysing the influences and contexts, students will be able to gather resources and develop diverse meaningful strategies that will assist young people to promote health practices.

301090.1 Contextual Inquiry

Credit Points 10 **Level** 3

Assumed Knowledge

Knowledge related to the successful completion of Year 1 and 2 is assumed.

Prerequisite

301083.1 Design Studio 5: Symbol and Meaning Making

Equivalent Units

300314 - Designed Inquiry

Design and user research methods are critical in establishing frameworks for efficient and effective process and resource utilisation in designing, conducting and presenting research findings leading to design briefs that are succinct yet open to new innovations. A range of research design methods are presented and students are guided to the strategic selection of methods appropriate to their own self-sourced project theme. Data collection instruments are designed, operationalised, data coded and analysed via both qualitative and quantitative techniques and discussed in a vibrant peer environment inspired by design thinking and other research methods unique to the design profession.

101751.2 Contextualising Indigenous Australia (Day Mode)

Credit Points 10 **Level** 1

Equivalent Units

300455 - Indigenous Australia: Back to the Future

This unit will provide a comprehensive overview of Indigenous Australian cultures, histories and identities. The scope of the unit spans pre-colonisation to the twenty-first century across Australia and all relevant fields of study. A cross-section of institutional, community and popular culture contexts will be explored. This body of knowledge will provide a context for various professions and discussions. Students will have the exciting opportunity to hear from a diverse range of Indigenous educators from academics to artists through to performers and community elders. A broad understanding of Indigenous Australia will position students to be advocates for change in contemporary Australia.

200011.2 Contracts

Credit Points 10 **Level** 2

Corequisite

200006.2 Introduction to Law OR **200977.1** Fundamentals of Australian Law

Equivalent Units

69018 - Law of Contract, F1003 - Contracts, LW301A - Contracts

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Contracts covers the formation of contracts, the requirement of writing, privity of contract, contractual terms and their interpretation, breach of contract, discharge of contractual obligations and elements vitiating its formation such as misrepresentation, misleading and deceptive conduct, mistake, undue influence, unconscionability, duress and discharge. Statutory developments are also considered such as the Contracts Review Act 1980 (NSW) and the Australian Consumer Law, as are the historic and theoretical aspects of the development of the law of contract.

300009.3 Control Systems

Credit Points 10 **Level** 3

Assumed Knowledge

200238 - Mathematics for Engineers 2 • Ordinary Differential Equations • First order, Second order, and Higher order. • Laplace transforms • Multivariable Calculus • Functions of two or more variables • Double integrals • Triple integrals. Similar to that contained in 200238 - Mathematics for Engineers 2. Students should also have the appropriate background and competence in the safe use of computers, test equipment, components and data sheets.

Prerequisite

300057.3 Signals and Systems OR **300480.2** Dynamics of Mechanical Systems

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This unit introduces the fundamental concepts of automatic control engineering. It covers traditional and contemporary design and analysis techniques; the concepts required to design continuous time and discrete time controllers. Matlab is utilized considerably.

401178.1 Controversies in Epidemiology

Credit Points 10 **Level** 7

Prerequisite

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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit offers students an opportunity to synthesise theories and methodologies from epidemiology. It highlights current controversies and practices in epidemiology. Students attend weekly presentations on topics related to

content area interests, and other relevant seminars. Students will convene with faculty to reflect on and critique components of research presentations relevant to the students' interest and to the contemporaneous topics being covered in the core epidemiology curriculum. Course assignments involve critical appraisal of conceptual and methodological issues presented in the seminars, and related issues relevant to student's own research.

101799.2 Convicts and Settlers - Australian History 1788 - 1840

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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In little more than half a century Australia was transformed from a convict prison to a parliamentary democracy. The people who made this transformation were the ex-convicts, free settlers and first generation of colonial born children. The survival of data about ordinary people between 1788-1840 makes it possible to investigate families, communities, employment, law and order and the daily experiences of urban and frontier life in these formative years. Using family history resources on the internet and sophisticated digital archives of historical records in Australia and overseas, this unit will challenge assumptions about "who do you think we were?"

400982.4 Core Competencies in Physiotherapy Practice

Credit Points 10 **Level** 2

Corequisite

400981.2 Clinical Pharmacology

Unit Enrolment Restrictions

Students must be enrolled in 4662 Bachelor of Health Science/Master of Physiotherapy, 4668 Bachelor of Health Science (Honours)/Master of Physiotherapy, 4706 Bachelor of Physiotherapy, 4707 Bachelor of Physiotherapy (Honours) or 4733 Bachelor of Physiotherapy (Honours). Students must have successfully completed 120 credit points of core units to enrol in this unit.

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Students build on their knowledge and skills explored in their first 1.5 years of physiotherapy study. It focuses on the core competencies of physiotherapy professional practice, which will be developed through a variety experiential and community engagement learning activities. Professional competencies addressed in this unit include communication, documentation, and reflection, professional and ethical behaviour. In addition, students will develop skills in client assessment, and interpretation of findings to formulate hypothesized problem lists and goals for patients.

200109.6 Corporate Accounting Systems

Credit Points 10 **Level** 3

Corequisite

200536.3 Intermediate Financial Accounting OR
200974.1 Accounting Standards and Governance

Equivalent Units

AC203A Corporate Accounting, H2739 Corporate Accounting, 61113 Corporate Accounting

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This unit builds on the fundamental knowledge of accounting procedures gained in prerequisite units. It involves the comprehensive study of aspects of corporate accounting and reporting which are regulated by legislation, accounting standards, Australian Securities and Investment Commission and Stock Exchange requirements. This unit is designed to provide students with grounding in the regulation and practice of corporate reporting in Australia. The major orientation is towards the theoretical and practical aspects of corporate reporting, whilst at the same time exploring the reasons for regulatory disclosures.

200488.4 Corporate Financial Management

Credit Points 10 **Level** 2

Assumed Knowledge

HSC Mathematics, introductory economics or microeconomics

Equivalent Units

200050 - Financial Management, 200110 - Corporate Financial Decision Making

Special Requirements - Essential Equipment

All students need a scientific calculator for this unit. The calculator should have the SD and/or STAT (for standard deviation calculation) and REG/LR (for correlation coefficient and regression) function. Students must bring the calculator to each workshop (starting from week 1).

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This unit introduces the fundamental concepts of finance theory and the tools of financial decision making in the context of the Australian institutional environment. These concepts relate primarily to the time value of money, risk and return, capital budgeting and capital structure. The unit's purpose is to develop an understanding of the basic practices of financial management from the perspective of a firm (both large and small). Students examine the investment, financing and dividend decisions of corporations.

200923.1 Corporations, Economic Power and Policy

Credit Points 10 **Level** 3

Assumed Knowledge

Knowledge gained around consumers and markets, the Australian economy, economic methods and analysis.

Equivalent Units

200530 - Microeconomic Theory and Applications

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Australia's industrial, financial and retail sectors are dominated by powerful corporations which engage in a wide variety of competitive and cooperative behaviours. This unit examines how modern corporations position themselves in terms of investment in large-scale production, technological innovation, the manipulation of information, marketing, and cooperative strategies to gain market share and enhance their profitability. It also explores the effects of the interactions of corporate behaviour and public policy, including the governmental function of constructing and regulating explicit market rules of exchange.

200924.2 Cost Benefit Analysis

Credit Points 10 **Level** 2

Assumed Knowledge

Basic understanding of economics.

Prerequisite

200911.1 Enterprise Innovation and Markets OR **200525.3** Principles of Economics OR **200922.1** Consumers, Firms and Markets

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Students will learn and apply Cost Benefit Analysis, the most commonly used economic tool in business, consultancy and government organisations. The unit is a core unit in the Economics major but is open to all students who have a basic understanding of economics and a desire to improve their analytical skills and employability. At the completion of the unit, students will be able to explain the economic foundations of cost-benefit analysis and they will have experience with analysing, critically evaluating and developing a cost-benefit analysis for a specific proposal. Students will also consider risk analysis and cost-effectiveness analysis.

200862.1 Creating Change and Innovation

Credit Points 10 **Level** 3

Equivalent Units

200570 Management of Change, H3741 Management of Change

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This unit introduces the concepts of change and innovation as they relate to organisational transformation. It explores change as a human and social process, looking at the vital roles of leadership, entrepreneurship, and creativity in change management. In doing so, it provides the theoretical and practical understandings that you will need as both a student of change and a future manager.

100856.4 Creative Non-Fiction

Credit Points 10 **Level** 3

Assumed Knowledge

A good standard of written expression

Equivalent Units

CT209A - Texts and Techniques

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit provides students with an advanced understanding of the issues, processes and practical questions involved in the writing of creative non-fiction. It is intended that students will gain both enhanced theoretical knowledge of writing practices and, through workshop participation and practical exercises, develop both their own writing skills and the ability to critique the writing of others on the basis of sound understanding of the characteristics of the genre.

100859.3 Creative Writing Project

Credit Points 10 **Level** 3

Assumed Knowledge

It is highly desirable that students should have successfully completed one of the following Level 2 units: 100896 - Writing Fiction, 100856 - Creative Non-Fiction or 101011 - Writing Poetry

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit extends students beyond the writing of individual stories and poems into larger areas of creative writing, such as the discontinuous narrative, the novella, and the cycle of related poems and/or stories. It involves students in the process of developing a major project from an initial set of ideas, through the stages of drafting to a "finished" product, using workshop techniques, individual interviews and peer critiquing. It aims to give each student some experience of a relationship with readers (fellow students) and an editor (the tutor).

102437.1 Creative Writing: Practical Skills and Knowledge

Credit Points 10 **Level** 1

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This is the second of two Level 1 foundation units in the Creative Writing Major. The unit focuses on developing students into writers by giving them the practical skills and theoretical knowledge needed to become published writers. Students will develop a body of original creative work while reflecting critically upon writing practice. The unit is built around participation in writing workshops, which emphasise improving your work via practical feedback from tutors and peers. Themes covered include writing the personal, writing about place, experimentation, specificity, originality, voice and starting a career in writing. No previous creative writing experience is necessary.

102436.2 Creative Writing: The Imaginative Life

Credit Points 10 **Level** 1

How do we begin as creative writers? What is an imaginative life? This is the first of two Level 1 foundation units in the Creative Writing Major. Students will be oriented in the practice and knowledge of creative writing. They will learn techniques and strategies for becoming an effective creative writer, while studying writing as a mode of imaginative thinking and response. The unit involves face to face lectures and creative writing workshops overseen by experienced and widely-published writers, critics and publishers from the Writing and Society Research Centre and the School of HCA. No previous creative writing experience is necessary.

102211.2 Creativity, Innovation and Design Thinking

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Students must be enrolled in The Academy @ Western Sydney or at the discretion of the Director of Academic Program and/or Head of The Academy and must have successfully completed 40 credit points of study.

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The aim of this cross-disciplinary unit is to encourage students to explore their creative potential and broaden their perspectives of innovation through the lens of design thinking. Design thinking offers a range of strategic and practical approaches to both creativity and innovation including an understanding of stages of thinking and reflection; an evaluation of the dynamics of team work; the workings of conversation and dialogue to generate new thinking about complex problems. Students will learn about design thinking methodologies, and apply these towards addressing broader social issues in innovative and creative ways.

102376.1 Creativity: Theory and Practice

Credit Points 20 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in 1827 Master of Arts (Creative Arts) or the Master of Research.

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Research in communication arts utilises a range of investigative procedures appropriate to the theory and practice of each creative arts discipline. This unit will introduce fundamental research languages, methods, and outcomes relevant to the creative arts disciplines, and encourage students to develop approaches best suited to their theory and practice. Students will write and defend a research proposal and paper for a research program: the unit will enable students to apply a rigorous research framework to their work. Students will engage with a range of significant and critical texts which address the broad implications of practices and theories in creative arts disciplines.

102315.1 Crime Fiction

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points.

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This unit will introduce students to a variety of texts drawn from the history of crime fiction; including the classic detective story, the Golden Age mystery, US 'Hard Boiled' fiction, the police procedural, and the literary crime novel. Students will develop their knowledge of theories of genre, specifically its formation and evolution, and its implications for the process of making meaning. They will learn about the changing place of crime fiction within the English literary canon, exploring the genre's relationship to questions of artistic value, the distinction between high and low culture, and the differences between literary and popular fiction.

102038.1 Crime Prevention and Community

Credit Points 10 **Level** 3

Equivalent Units

101564 - Victimisation and Crime Prevention

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This unit will examine the theory, politics and practice of crime prevention. It will address current approaches to crime prevention, evaluate their effectiveness and examine emerging strategies in the field. The unit will consider the diversity of crimes and the ways in which some are constructed as preventable and others are not, while discussing the challenges posed by unreported crime, fear of crime and the relation between patterns of victimisation and social disadvantage. The unit will draw on empirical literature linking individual, social and contextual factors to the production and prevention of deviant behaviours and explore the potential of crime prevention strategies for alleviating the social ills associated with crime and deviance.

300873.2 Crime Scene Investigation

Credit Points 10 **Level** 2

Prerequisite

300806.1 Forensic Science AND **300874.1** Digital Forensic Photography

Equivalent Units

300374 - Crime Scene Investigation

Incompatible Units

300746 - Evidence & Crime Scene Management

Unit Enrolment Restrictions

Students must be enrolled in 3589 Bachelor of Science (Forensic Science) or 3562 Bachelor of Science (Advanced Science) (Forensic Science).

Special Requirements - Essential Equipment

Students must have a crime scene suit for the simulated crime scene assessment. Students must supply their own grip kit including; forensic linear scales, a magnifying glass, markers, writing material, clip board, small measuring tape, small leveller and camera card.

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A substantial amount of forensic evidence used in the prosecution of criminal cases is initially established at the crime scene. Recognising, detecting, recovering, preserving and recording this evidence forms a critical function within forensic science and criminal investigation.

This unit introduces the student to a range of crime scene practices that provides the knowledge and skill to interpret a complex scene with voluminous detail, into a more specifically targeted range of forensic evidence items. This unit will explore aspects of crime scene investigation including; crime scene processes, recognition of evidence, documentation of crime scenes, evidence detection and enhancement, and maintaining evidence integrity. It also introduces professional practices associated with maintaining evidence integrity and continuity.

102039.1 Crime, Deviance and Society

Credit Points 10 **Level** 1

Equivalent Units

101559 - Introduction to Criminology, 700054 - Introduction to Criminology, 700156 - Crime, Deviance and Society (WSTC)

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This unit introduces the major approaches to the study of criminology and the sociology of deviance. It considers the ways in which social order is produced, maintained and transgressed from a range of perspectives, including the Chicago school, labelling and deviance theory, Marxism, feminism and queer theory. These perspectives are explored through a discussion of contemporary issues and controversies, such as crime in Western Sydney, the media and moral panic, the criminalisation of HIV transmission, Indigenous incarceration, and alcohol and drug use. The unit also addresses the politics of law and order and the resurgence of neo-liberalism in debates over crime and deviance.

200010.2 Criminal Law

Credit Points 10 **Level** 2

Corequisite

200006.2 Introduction to Law OR **200977.1** Fundamentals of Australian Law

Equivalent Units

69000 - Criminal Law, F1005 - Criminal Law, LW106A - Criminal Law

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This unit introduces students to the basic principles of criminal law and criminal responsibility and the criminal justice process as located in its broader social and political context. Students will engage in collaborative class learning, consider the impact of the criminal justice system on Indigenous Australians, visit the Local Court on domestic violence list day, and participate in a mock bail application.

300871.1 Culinary Science

Credit Points 10 **Level** 3

Prerequisite

300879.1 Experimental Foods

Equivalent Units

300715 - Culinary Science, 300640 - Culinary Studies

Special Requirements - Essential Equipment

Personal protection equipment e.g. apron and closed in shoes.

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This unit applies scientific principles to the development, preparation and presentation of food products. Students are encouraged to become autonomous learners through problem-solving activities and experiential techniques. Students integrate and apply knowledge and skills from areas such as chemistry, biology, food science and nutrition to nutritionally focussed food products. Students are encouraged to keep abreast of food trends in the dynamic food industry as well as current nutritional issues within domestic, multicultural and indigenous communities. Students will utilise prior knowledge and skills to address specific nutritional issues and the development of new food products to fit within these boundaries.

101590.2 Cultural and Social Geographies

Credit Points 10 Level 2

Equivalent Units

700055 - Cultural and Social Geographies (UWSC)

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Examines the nexus between society, culture and place. Considers contemporary social and cultural planning issues including: local community relations, place management, place redefinitions, ethnic concentration, cultural precincts, and the spatial politics of gender and sexuality. The roles of cultural products in carrying spatial information and reinforcing identity are examined. Introduction to cultural and social geography, and developments in cognate fields of cultural studies and anthropology. Key theories of identity. Case studies range across ethnicity, religion, age, gender, sexuality, class and nationalism. The analysis and assessment advances an appreciation of social and cultural difference and social justice.

101967.1 Cultural History of Books and Reading

Credit Points 10 Level 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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This unit examines the development of the book as a material and cultural object, and the evolution of cultures of reading from codex and clay tablet to digital book and e-Reader. Exploring the historical and technical change taking the book from singular object (painstakingly copied by hand and read by a learned elite) to 'book' as notional object (deliverable 'content', in a range of formats, to readers on demand), this unit focuses on moments of contestation and crisis in reading, writing and print culture: copyright and the role of authorship, censorship, the plundering of libraries, and that most radical proscription, book-burning.

101562.3 Culture and Crime

Credit Points 10 Level 3

Assumed Knowledge

A basic understanding of foundational criminological theory.

Unit Enrolment Restrictions

Successful completion of 80 credit points

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Contemporary societies are replete with images of crime, including in fiction, the media, film and television. In this unit we explore this phenomenon through the lens of cultural criminology and its interest in the exciting and adrenaline-inducing aspects of crime. We explore the link between culture and crime by looking at both textual/visual and ethnographic research. This means studying the way crime is experienced as 'thrilling' not only by those who consume it via images but also by those who actually engage in violent and transgressive conduct. This unit examines the relationship between cultural images of crime, the lived experience of criminal activity and its social and cultural impact.

102185.1 Culture, Discourse and Meaning

Credit Points 10 Level 3

Incompatible Units

101408 - Critical Discourse Analysis

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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In Culture, Discourse and Meaning students explore our culture by looking closely at how we make and share meaning. You look at how power operates by supporting and promoting some ideas and ways of life but not others. In Culture, Discourse and Meaning you also consider how students might change our culture. In your work in the unit, you will develop analytical, interpretive, and critical skills for culture analysis. Through project-based work, students will develop the capacity to analyse and critique the production and operations of power and consider changes in cultural practice.

400866.3 Culture, Diversity and Health

Credit Points 10 Level 2

Equivalent Units

700072 - Culture, Diversity and Health (WSTC)

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This unit introduces skills for understanding and engaging effectively with the culturally and socially diverse world in which we live and work. Indigenous Australia is a major theme and students will gain an appreciation of the achievements and needs of Indigenous Australians. The unit examines cultural awareness more broadly and puts these issues in the context of health professionals working in multi-cultural settings and handling culturally different health philosophies and practices. Cultural diversity is

increasingly recognised as a major issue in the delivery of health care and a major determinant of Indigenous health.

102479.1 Cultures of Crime and Punishment

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

The focus of this unit is on the ways in which crime and punishment are defined and practiced in a range of different cultures, and how different countries' social customs and cultural values influence the evolution of their understanding of, and response to, criminal behaviour. Drawing on both theoretical frameworks and practical examples, the unit will provide students with an opportunity to work in a collaborative learning environment, working with both instructors and other students to undertake and communicate research logically.

102529.1 Cyber Justice (UG)

Credit Points 10 **Level** 3

Assumed Knowledge

Successful completion of second-year subjects in cultural and social analysis, history and political thought, law, psychology or criminology would be useful, but are not required. Experience of using social media would also be useful but not required.

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

The world is being transformed by digital technologies. The same technologies that make life more comfortable for some can unleash violence and destruction for others. Cyber war and cyber terrorism offer new risks for the international community. Bullying, identity theft and bank fraud, on a more local level, are given a new life in the cyber world. Cyber technologies also provide enhanced opportunities for detecting and apprehending criminals, resolving disputes and modernising justice processes. New social spaces are opened up (social media networks, the 'dark web'), and new identities made possible (online grooming profile, avatars). How does the law keep up with the emergence of new crimes and technology-enhanced versions of old ones, and how do the cultural worlds of hackers, crackers and trackers work? The subject examines how justice processes and spaces, as well as criminal networks and strategies, are being reimagined to take advantage of the new technologies.

300997.1 Data Communications

Credit Points 10 **Level** 3

Prerequisite

300057.3 Signals and Systems

Incompatible Units

300010 - Data Networks

This unit is concerned with the principles and topics of fundamental importance to digital data communication, computer communication networks and telecommunications. The lower layers of the protocol structure (physical layer, data link layer and some aspects of the network layer) and the physical medium (hardware and transmission lines) are emphasized. An engineering approach will be taken to provide an insight to transmission and transmission media, communication techniques and transmission efficiency.

401179.1 Data Management and Programming for Epidemiology

Credit Points 10 **Level** 7

Assumed Knowledge

High school mathematics (arithmetic, formulas and algebra, reading graphs). Basic computer competency and basic programming skills.

Prerequisite

401077.1 Introduction to Biostatistics

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Home computer or laptop or access to a machine on which software can be installed. (Necessary for assignments). Software required includes Git (free, open-source, multi-platform), and one or both of SAS (proprietary, Windows only, but a no-cost version able to run on Apple computers is available) and R (free, open-source, multi-platform).

Modern epidemiology deals with ever increasing volumes of data and complexity of analysis. This course is aimed at equipping students with effective practices for managing data and programme code and ensuring the security of their data. Students will be taught the fundamentals of managing code and data in a revision control system as well as good programming practices and techniques which can form a basis for a robust, repeatable and test-driven research methodology. Programming instruction and exercises will use the SAS and R languages, and SQL databases.

301044.1 Data Science

Credit Points 10 **Level** 7

Assumed Knowledge

Basic Statistics, Computer Programming

The explosion of data in the internet age opens up new possibilities for agencies and business to better serve and market to its customers. To take full advantage of these opportunities requires the ability to consolidate, manage and extract information from very large diverse data sets. In science, data sets are growing rapidly, with projects routinely generating terabytes of data. In this unit we examine the software tools and analytic methods that

underpin a successful Data Science Project and gain experience in big data analytics.

300103.4 Data Structures and Algorithms

Credit Points 10 **Level** 2

Prerequisite

300147.4 Object Oriented Programming OR **300581.4** Programming Techniques OR **300903.1** Programming Techniques (Advanced)

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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 and for further training in programming skills. The unit focuses on the ideas of data abstraction and algorithm efficiency. The issues of computational complexity of algorithms are addressed throughout the semester. The topics covered include the fundamental abstract data types (lists, stacks, queues, trees, hash tables, graphs), recursion, complexity of algorithms, sorting and searching algorithms, binary search trees and graphs.

300104.4 Database Design and Development

Credit Points 10 **Level** 2

Assumed Knowledge

Basic programming skills, including variable declaration, variable assignment, selection statement and loop structure.

Equivalent Units

700011 - Database Design and Development (WSTC)

Incompatible Units

200129 - Database Management System for Business Information Systems.

.....

The main purpose of this unit is to provide students with an opportunity to gain a basic knowledge of database design and development including data modeling methods, techniques for database design using a set of business rules that are derived from a case study and finally implementation of the database using a commercial relational database management system. The unit also examines a number of important database concepts such as database administration, concurrency, backup and recovery and security. At the same time student learning and intercommunication skills are enhanced by running tutorial presentations and group assignments.

300941.1 Database Design and Development (Advanced)

Credit Points 10 **Level** 2

Assumed Knowledge

Basic programming skills, including variable declaration, variable assignment, selection statement and loop structure.

Incompatible Units

200129 - Database Management System for Business Information Systems, 300104 - Database Design and Development

Unit Enrolment Restrictions

Students must be enrolled in 3685 Bachelor of Computing (Information Systems) Advanced, 3684 Bachelor of Information and Communication Technology (Advanced), 3688 Bachelor of Information Systems Advanced or 3745 Bachelor of Information Systems Advanced/Bachelor of Business.

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This unit covers the principles, methodologies and technologies for the database design and development, exploring in particular the data modelling methods and the use of the language SQL for the database applications. The unit also examines a number of important database concepts such as database administration, concurrency, backup and recovery, and security. Students in this advanced unit are furthermore required to investigate new technological and theory advances in the database industry and apply them to the solution of concrete database problems.

700011.4 Database Design and Development (WSTC)

Credit Points 10 **Level** 2

Assumed Knowledge

Basic programming skills, including variable declaration, variable assignment, selection statement and loop structure.

Prerequisite

Students enrolled in 7067 Diploma in Information and Communications Technology Extended, 7083 Bachelor of Information and Communications Technology Extended (WSTC FYP), and 7134 Diploma in Information and Communications Technology Extended – ICT must pass 700199 Academic Communication 2 (WSTC Prep) or 700208 English for Tertiary Study 2 (WSTC Prep) or 700210 Introduction to Academic Communication 2 (WSTC Prep) and must pass 700201 Computer Studies (WSTC Prep) and must pass 700047 Programming Design (WSTC Prep) before enrolling in this unit. Students enrolled in 7138 Diploma in Information and Communications Technology Extended-ICT, 7139 Diploma in Information and Communications Technology Extended, 7140 Diploma in Information and Communications Technology Extended-IS, and 7141 Diploma in Information and Communications Technology Extended-HIM must pass 700276 Academic and Professional Communication (WSTC Prep) and must pass 700278 Information Technology in Business (WSTC Prep) and must pass 700047 Programming Design (WSTC Prep).

Equivalent Units

300104 - Database Design and Development

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diploma courses must have passed 40 credit points of preparatory units in order to enrol in this unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

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The main purpose of this unit is to provide students with an opportunity to gain a basic knowledge of database design and development including data modeling methods, techniques for database design using a set of business rules that are derived from a case study and finally implementation of the database using a commercial relational database management system. The unit also examines a number of important database concepts such as database administration, concurrency, backup and recovery and security. At the same time student learning and intercommunication skills are enhanced by running tutorial presentations and group assignments.

100996.3 Death and Culture

Credit Points 10 **Level** 3

Equivalent Units

SS240A - Death and Culture, 100902 - Death and Culture

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit is a critical introduction to the social practices surrounding death in modernity. Although primarily addressing social arrangements in the West, the unit examines the bio-politics of death in a wider cultural framework, with attention to geographies of power and economic influence. The unit traces the historical development of concepts of the individual; the impact on Western ideas around death of genocide and modern warfare; and assesses contemporary ethical, social and medical controversies (like euthanasia and the trade in body parts). The unit attempts to demonstrate the relationship of death to: social institutions; ideas of community and the construction of self in modernity.

102341.1 Debates in Global History

Credit Points 10 **Level** 7

Assumed Knowledge

History and Political Thought Major, International Relations and Asian Studies Major or equivalent.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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The unit considers the history of the ways that different regions of humanity have interacted, since 1400. The unit will consider such topics as: ethnic-centrism (how to address it in historical and political knowledge?); the era of 'Pan Asia' (what does the rise of China and India mean for historical and political studies?); the prominence of 'nation' in historical knowledge (how to treat human history as 'global?'); the relationship of ethno-nationalism to globalization; the periodization of global history (turning points in the emergence of a global humanity); the determinants of difference and commonality in human history; the characteristics of 'empires'; the natural limits of humanity.

301015.1 Deep Foundations

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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This unit covers advanced analysis and design criteria for deep foundations. Both statically and dynamically loaded deep foundations are covered including the site investigation methods and field testing methods adopted in practice for determining integrity and load carrying capacity. Appropriate computer software will be introduced to carry out the deep foundation design according to the Australian Standards.

100903.2 Democracy in Asia

Credit Points 10 **Level** 3

Equivalent Units

63033 - Democracy in Asia.

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit is concerned with the theory and practice of democracy in modern and contemporary history of Asia. It explores a range of issues relating to liberalism, human rights, political reform and democratization. It seeks to explain the differences in the ways in which democracy has been conceived, understood and practiced in different cultures and societies. It also examines the East-West debate on "Asian values" and the suitability of Western-style democracy to Asia. Finally, it discusses the prospects for democracy in Asia.

200079.3 Derivatives

Credit Points 10 **Level** 3

Assumed Knowledge

Knowledge of mathematics and statistics equivalent to that required for 200052, Introduction to Economic Methods.

Prerequisite

200052.5 Introduction to Economic Methods AND **200488.3** Corporate Financial Management

Equivalent Units

61344 - Risk Management, H3686 - Options, Futures and Derivative Products

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This unit provides an introduction to the major classes of derivatives: forwards, futures, swaps and options. It examines how these instruments can be used by companies for the purposes of hedging, speculation and arbitrage. Each of these categories of derivatives is examined in some detail. Considerable attention is also given to various models used to price derivative products. The historical background to contemporary risk management is also considered.

401116.1 Dermatology and Gerontology

Credit Points 10 **Level** 4

Assumed Knowledge

All core units are assumed knowledge.

Prerequisite

400981.2 Clinical Pharmacology AND **401182.1** Pharmacology for Podiatrists AND **401180.1** Musculoskeletal Disorders and Imaging

Incompatible Units

400939 - Podiatric Techniques 3A and 400940 - Podiatric Techniques 3B

Unit Enrolment Restrictions

Students must be enrolled in 4708 - Bachelor of Podiatric Medicine or 4709 - Bachelor of Podiatric Medicine (Honours).

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This unit builds on previous clinical and theoretical units to develop in-depth knowledge in dermatology and gerontology. Foundations of dermatology including the function and structure of the skin, assessment, differential diagnosis, aetiological factors and the management of disorders of the skin, with particular emphasis on common foot conditions and co-morbidities will be investigated. Population's trends, aging norms, pathology, co-morbidities and attitudes to aging will be explored. Particular focus will be placed on pathophysiology, mechanics, diagnosis and treatment options to maintain normal daily activities.

301086.2 Design Brief Formulation

Credit Points 10 **Level** 3

Prerequisite

300729.3 Graphic Communication and Design

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This unit explores the process of formulating the quantitative and qualitative requirements for a complex construction project. Students will analyse and evaluate competing parameters for a specific building project which contains residential, commercial and community facilities.

301093.1 Design Management 1: Process and Manufacturing

Credit Points 10 **Level** 2

Equivalent Units

300012 - Design Management 1: Product Design Audit

Special Requirements - Essential Equipment

Access to vUWS and Western Sydney University library

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Design Thinking has had a considerable effect on the ways firms innovate, design and evaluate products and services for use. The evolution of smart products and services in recent years offers both challenges and rewards for organisations as the big data generated provides insights to current product and service utilisation. Interpretation and integration of these new knowledge streams can support

future product development, and enhance understanding of human behaviour. This entirely online unit will explore what the Internet of Things (IoT) is all about and how IoT can constructively inform and service new product and service development. The project design brief developed provides the directional basis for the deployment of both human and industrial resources ideal for career progression as a future manager.

301082.1 Design Management 2: Operation and Supply Chain

Credit Points 10 **Level** 2

Equivalent Units

300013 - Design Management 2: Corporate Image and Identity

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This unit focuses on how design management processes can connect suppliers with consumers. Students will learn about the evolution of different manufacturing environments: the development of craft manufacture, batch processing, flexible manufacture along with 21st century lean start-up and entrepreneurship models. The unit engages topical areas including integrative manufacturing planning, value chain analysis, industry reflection, and strategic decision making. Learning activities include an industry-based audit, a business redesign, and an innovation futures proposal.

300014.3 Design Management 3: Organisational Skills for Designers

Credit Points 10 **Level** 3

Assumed Knowledge

Ability to use: e-mail, internet web browser, WebCT or equivalent, word processing program. Knowledge and/or experience in: referencing, essay writing, group work and the successful completion of Level 2 units would be of advantage and will be assumed.

Equivalent Units

10886 - Design Management 3B: Professional Practice

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Key learning outcomes include that students: understand manufacturing paradigms and their impact on the product development process and the design process; understand the impact of organisational structures, strategies and processes on the design process; develop and gain experience of using 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, analysis and problem solving. Develop and gain experience of using distance communication and virtual teamwork skills, skills that are becoming increasingly important in new product development.

301094.1 Design Management 4: Strategy and Lean Start-Up

Credit Points 10 **Level** 4

Equivalent Units

300015 - Design Management 4: Design Process

Unit Enrolment Restrictions

Students must have successfully completed 160 credit points. Online work safety module must have been completed prior to workshop space use. Specific requirements regarding machine use may require student safety inductions per apparatus i.e. drill, sander.

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This unit builds on earlier design management study and focuses on entrepreneurial innovation and lean start-up models using design-led strategies such as canvass modelling, minimum viable product (MVP), and launching. These strategies can be used for creating dynamic and adaptive organization for business, government and wider communities. Students will work in cross functional teams to deliver a mature value proposition for validation and launch of a market-ready product or service; and will be encouraged to seek external funding for their ideas, for example through crowd-funding websites.

300016.3 Design Science

Credit Points 10 **Level** 1

Equivalent Units

700126 - Design Science (WSTC)

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This unit provides an overview to the process of design and introduces students to many of the skills they will develop as they become successful industrial designers. Whilst learning about the CDIO framework for project-based design problems, students will develop their applied mathematical skills, learn about materials, be introduced to computer visualisation, work individually and in teams, and develop professional communication skills. The key objective is to provide students with practically-oriented skills and knowledge that enables them to critically analyse existing designs and conceive higher levels of innovation in new designs. Utilising a mix of theory and practice, this unit will challenge students to think both creatively and quantitatively when problem solving during the design process.

700126.3 Design Science (WSTC)

Credit Points 10 **Level** 1

Assumed Knowledge

The content of any NSW HSC Mathematics subject

Prerequisite

Students enrolled in 7015 Diploma in Construction Management or 7065 Diploma in Construction Management Extended or 7042 Bachelor of Construction Management (WSTC FYP) or 7081 Bachelor of Construction Management Extended (WSTC FYP) must pass 700264 Scientific Methods for Construction Management (WSTC Prep) before enrolling in this unit.

Equivalent Units

300016 Design Science

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College in a Construction Management course. Students enrolled in Extended Diplomas must pass 40

credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

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An explanation and description of how the built environment works is essential to designers and construction professionals. This unit provides an introduction to physical units of measurement, tolerance, statics, dynamics, acoustics and thermal properties. It also allows students to interpret and apply the concepts of electricity, energy, work and power to the built environment. Students engage with these concepts through a hands-on learning experience including practical projects and live demonstrations.

301073.1 Design Studio 1: Patterns and Products

Credit Points 10 **Level** 1

Equivalent Units

300776 - Applied Ergonomics

Special Requirements - Essential Equipment

Online work safety module must have been completed prior to workshop space use. Specific requirements regarding machine use may require student safety inductions per apparatus i.e. drill, sander. Students must bring your own device to all Lecture and Tutorial classes, as these will be required to complete the assignment tasks.

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Creating new designs that interpret both the functional needs and emotional desires in new and exciting ways are important to the success and longevity of products and services. New designs are also important to the organisations that sponsor their research and development. Active project work through creative practice in developing and building new solutions is represented in each of the assessments. Students will research, conceptualise, and present their innovations in response of practical context-based challenges. The designs will be informed by human-centred design principles, sustainability, and fit-for purpose integrated production process considerations that bring entrepreneurial ideas to life. Theory and practice-based outcomes are advanced through real-life scenarios, guest speakers and site visits while modern university workshops environments will be used for prototyping, laser cutting and 3D printing. This unit may be taken as a stand-alone elective or as the first in a series of creative design studios.

301075.1 Design Studio 2: Form and Production

Credit Points 10 **Level** 1

Equivalent Units

301036 - Form and Production; 300462 - Engineering and Design Concepts

Special Requirements - Essential Equipment

Online work safety module must have been completed prior to workshop space use. Specific requirements regarding

machine use may require student safety inductions per apparatus i.e. drill, sander.

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This unit equips students with the skills to use creative design and structured decision making to solve challenging problems. Students will develop their understanding of design process by creating experimental models using various methods, including 3D rapid prototyping. Students will also record their design process via multimodal media, in both digital and non-digital format. They will also reflect upon the design process through the CDIO framework (Conceive, Design, Implement, Operate) and CAD (Computer-Aided Design).

301078.1 Design Studio 3: Design, Process and Function

Credit Points 10 **Level** 2

Assumed Knowledge

Level 1 Design Studio 1 and Design Studio 2

Prerequisite

301075.1 Design Studio 2: Form and Production

Equivalent Units

300305 - Design Studio 1: Themes and Variations

Special Requirements - Essential Equipment

Online work safety module must have been completed prior to workshop space use. Specific requirements regarding machine use may require student safety inductions per apparatus i.e. drill, sander.

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Students will undertake projects with semi-open briefs, where they are asked to address a given theme and achieve specific outcomes such as sustainability criteria or costing targets. They will follow the CDIO (Conceive, Design, Implement, Operate) framework to develop designs to the stage of working prototypes with a clear plan of how the product will work in a real setting. This will include making a digital and/or mechanical representation, and also mapping how the product meets functional requirements both as a prototype and in the longer term as a finished product.

301080.1 Design Studio 4: Innovation through Systems Thinking

Credit Points 10 **Level** 3

Assumed Knowledge

It is assumed students have completed Graphics 3 and are proficient in computer solid modelling. Knowledge of plastic manufacturing is also essential.

Prerequisite

301078.1 Design Studio 3: Design, Process and Function

Equivalent Units

300308 - Design Studio 2: The Design Proposal

Special Requirements - Essential Equipment

Online work safety module must have been completed prior to workshop space use. Specific requirements regarding

machine use may require student safety inductions per apparatus i.e. drill, sander.

.....

This unit explores strategies for Industrial Design within the complex context of design work in the 21st century. Students will carry out projects in user-centred design, developing an innovative responses to a semi-open and open briefs using the CDIO (Conceive, Design, Implement, Operate) process. The projects will range from low fidelity cardboard prototypes to more fully developed everyday products and services that can be implemented and operated to meet an identified user need.

301083.2 Design Studio 5: Symbol and Meaning Making

Credit Points 10 **Level** 4

Equivalent Units

300311 - Design Studio 3: Product Realisation

Unit Enrolment Restrictions

Student are required to have completed 120 credit points in their degree.

Special Requirements - Essential Equipment

Online work safety module must have been completed prior to workshop space use. Specific requirements regarding machine use may require student safety inductions per apparatus i.e. drill, sander.

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Design-led innovation has become influential in the development of new products and services, has inspired the development of new business models and driven new job creation. In this advanced design studio unit, students synthesise their prior learning to develop new solutions. Through the use of an iterative conceptual development and product prototyping process, students will work in teams and individually to achieve new product development outcomes much sought-after by employers. Teams from an array of disciplines including industrial design, engineering, architecture, ICT, health and medical sciences use inspiring application of virtual reality (VR) and 3D printing to communicate and develop new solutions. Your career planning and personal development will benefit from the systems approach, collaborative learning mode, integrated design thinking, and innovation discovery challenge.

301084.1 Design Studio 6: Ambience, Place and Behaviour

Credit Points 10 **Level** 4

Prerequisite

301083.1 Design Studio 5: Symbol and Meaning Making

Equivalent Units

300313 - Design Studio 4: Simulate to Innovate

Special Requirements - Essential Equipment

Online work safety module must have been completed prior to workshop space use. Specific requirements regarding machine use may require student safety inductions per apparatus i.e. drill, sander.

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Designers responding to complex societal challenges require focus on people, places and systems thinking to make sense in guiding new investment in innovation. This unit builds industrial design expertise in four domains including human environments, responsible design, user-centred design, and technology development through applied design research, contextual inquiry methods, and articulation of innovation proposals through conceptual and validated physical modelling, and an interdisciplinary consultative viewpoint.

200918.1 Design Thinking for Creativity

Credit Points 10 **Level** 3

Assumed Knowledge

Students should have a foundation knowledge of business markets and innovation theory.

Unit Enrolment Restrictions

Successful completion of 80 credit points.

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Innovation and creative thinking are important skills in strategy development. Part of this process is the ability to solve problems and discover new opportunities; or in other words, the notion of "design thinking". This unit introduces students to concepts and frameworks to create innovative products, services and systems for a range of enterprises, industries and markets. Students will explore and analyse business and social networks, clusters and ecosystems via practice based projects. Design thinking principles will be applied to systematically develop ideas into innovative solutions as a way to drive business growth.

102159.1 Designing Curriculum Futures

Credit Points 10 **Level** 7

Equivalent Units

101660 - Curriculum Futures

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This unit considers the research and theoretical basis of curriculum futures, with a focus on design for learning and learning design, and critically examines contextual factors and their implications for learning design in a range of settings. The unit provides a critical overview of perspectives on curriculum, curriculum design and examines authentic learning and assessment. Examples of curriculum futures will be negotiated and explicated. The overall focus is on curriculum decision-making and planning for improved learning outcomes.

200997.1 Developing Sport Professionals

Credit Points 10 **Level** 3

Assumed Knowledge

An introductory level of knowledge in Sport Management

Prerequisite

201000.1 The World of Sport Business

Equivalent Units

400649 - Professional Practice in Sport Management 3,
400648 - Professional Practice in Sport Management 2,
200576 - Professional Practice in Sport Management 1,
200664 - Sport Management Internship

Unit Enrolment Restrictions

Student must be enrolled in one of the following courses:
1818 Bachelor of Arts/Bachelor of Business 1819 Bachelor of Communication/Bachelor of Business 1820 Bachelor of International Studies/Bachelor of Business 2786 Bachelor of Business 2787 Bachelor of Business (Advanced Business Leadership) 2788 Bachelor of Business/Bachelor of Laws 2789 Bachelor of Business (Advanced Business Leadership)/Bachelor of Laws 3728 Bachelor of Engineering (Honours)/Bachelor of Business 3737 Bachelor of Information and Communications Technology/Bachelor of Business 3744 Bachelor of Information Systems/Bachelor of Business 3745 Bachelor of Information Systems Advanced/Bachelor of Business 4748 Bachelor of Science/Bachelor of Business 6037 Diploma in Business/Bachelor of Business

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The Sport Management Internship unit provides students with an opportunity to engage with the sport industry through a 120 hour [minimum] industry placement. Students are provided with a unique opportunity to observe sport management practitioners in action and learn in a practical "hands-on" setting. Experience in the field of study is an essential ingredient in preparing an individual for employment either during the period of study or after graduation. Students have the opportunity to apply theoretical concepts, knowledge and skills acquired in lectures and workshops in professional sport, recreation and aligned settings.

101636.2 Developing Sustainable Places

Credit Points 10 **Level** 7

Equivalent Units

101345 - Land Use Strategy Design, 101311 - Urban Challenges: Developing Sustainable Places

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit provides an understanding of environmental, economic and social issues arising from the effects of urban development within city regions and examines the relationship between sustainable development and metropolitan planning in the Australian and global context. It focuses on the concepts related to sustainability, sustainable development and sustainable cities. It also looks into recent initiatives towards the realisation of sustainable cities.

300111.2 Developing Web Applications with XML

Credit Points 10 **Level** 3

Assumed Knowledge

300582-Technologies for Web Applications, 300580-Programming Fundamentals

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This third year unit provides a comprehensive coverage of XML, related emerging technologies and their use in web applications. Students will be given opportunities to develop web based information systems which rely upon these technologies. This unit is heavily oriented to practical based work.

101896.1 Development and Security

Credit Points 10 **Level** 7

Prerequisite

101895.1 Political Economy of Development

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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Successful development requires the provision of security. As a corollary, lack of development can breed insecurity and violence. The overall nexus between development and security is not only about a country's domestic affairs; it concerns the global community. Amid the increasing pace of globalisation, underdevelopment in the global South is argued to constitute a security threat by supposedly facilitating the international spread of terrorist and criminal networks. This unit will concentrate on three key aspects. First, it will interrogate the complex relationship between development and security from interdisciplinary perspectives. This will cover, among other, the notions of development as security, human development, human security and social sustainability. Second, this unit will examine the development roots of insecurity focusing on social and economic structures and key issues in development and security from local and global perspectives as well as from micro and macro outlooks. This includes peace keeping operations, security measures, and global governance for world order. Third, relevant case studies will be embedded throughout the unit contents to enhance students' analytical skill and practical orientation on the field of development and security.

101572.2 Development and Sustainability

Credit Points 10 **Level** 1

Equivalent Units

101338 Peace, Sustainability and World Futures

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The unit introduces the basic concepts relating to sustainability and development, and explores their relevance to real-world situation at the local, national, and global levels. The causes of unsustainability as well as their short-term and long-term effects on society and the environment will be evaluated. Students will analyse, using appropriate sustainability indicators and social change theories, a social change initiative (i.e., program, project, policy) designed to integrate the socio-economic, cultural and environmental dimensions of sustainability within the context of a specific developmental focus (e.g. poverty alleviation, gender equality, human/social development, heritage conservation, biodiversity, tourism, green accounting, sustainable livelihoods). Students will engage in problem-based learning skills in order to critically analyse

and discuss current issues in development, and provide solutions to sustainability.

300723.2 Development Control

Credit Points 10 **Level** 2

Assumed Knowledge

Basic understanding of residential construction.

Equivalent Units

BG303A - Development Control

Incompatible Units

200435 - Property Development Controls

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This unit provides an overview of development control and associated legislation. These include: interpretation of planning law as it relates to the development application process; the assessment of applications for approval for development as an integrated process; the evaluation of the impact assessment process; appropriate consideration of urban design, streetscape, heritage and conservation issues; and the evaluation of the impact of parking, traffic, landscape and services in development proposals.

101897.1 Development for Equality

Credit Points 10 **Level** 7

Prerequisite

101895.1 Political Economy of Development

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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The eight Millennium Development Goals (MDGs) were established in 2000 as a blueprint to meet the needs of the world's poorest and quickly became the dominant paradigm driving global development. The goals were targeted to be met by 2015 but no country has yet to approach success in achieving the goals. This unit critically examines the MDGs and in particular their impact on and engagement with women and other groups who remain the poorest and most vulnerable across the globe. Through this critique students will identify the structures, institutions and systems producing global inequalities; the significance of dominant development discourses in creating and continuing inequalities; and the intersections with social categories such as race, gender, sexuality, disability, class, religion and ethnicity. In order to demonstrate their understanding and critique, students will design a program for a specific disadvantaged group in a targeted region with a particular need to be met, such that the proposed program can sit within a suite of programs so as to ensure the ultimate aim of sustainable development.

102188.1 Dictators, Democrats and Dreamers: Indonesia 1942 to now

Credit Points 10 **Level** 3

Incompatible Units

101972 - The History of Modern Indonesia

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit surveys the post-independence history of Indonesia, Australia's nearest and most important Asian neighbour. Commencing with the Japanese Occupation during World War II, it traces Indonesia's often turbulent contemporary history through dictatorship and poverty to democracy and prosperity, bringing the story up to the latest developments at the time of teaching. Students will study Indonesia's struggle for independence and then equally challenging struggle to build a new nation able to take its place in the world amidst serious economic problems and profound political differences. The unit is also concerned with the historiographical problems confronting students of Indonesian history.

102344.1 Different Ways of Being in the World: Introduction to Social Anthropology

Credit Points 10 **Level** 1

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The key and foundational focus of Social Anthropology is the relationship between people and their cultures. This unit provides an introduction to key concepts, methods and theories of classical and contemporary Social Anthropology. It will guide the students to an informed and critical understanding of the nature and extent of human diversity and differences, as well as the similarities which unite us as people. The unit has two parts. The first part introduces students to the history and scope of Social Anthropology through selected work of some classical anthropologists, introducing key concepts and conceptual frameworks. The second part is designed around selected case studies of Indigenous Peoples in Australia, the Asia Pacific, and the Americas, providing the students with critical insight into the application of anthropological theory and the epistemological contribution of the discipline of Social Anthropology.

200030.4 Differential Equations

Credit Points 10 **Level** 2

Assumed Knowledge

Algebra - competency in manipulation of algebraic terms including powers, sigma notation Elementary functions - polynomial, power, exponential, logarithmic, circular and hyperbolic, inverse functions Differentiation - derivatives of standard functions, product/quotient/composite function rules Integration - integrals of standard functions, change of variable, integration by parts

Incompatible Units

200238 - Mathematics for Engineers 2

Unit Enrolment Restrictions

Students enrolled in Bachelor of Engineering, Bachelor of Engineering (Honours) or Bachelor of Engineering Science may not enrol in this unit.

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Differential equations arise naturally both in abstract mathematics and in the study of many phenomena. This unit provides the theory of ordinary differential equations and an introduction to partial differential equations together with methods of solution. Examples are drawn from a wide range of biological, chemical, physical and economic applications.

102410.2 Digital Cultures

Credit Points 10 **Level** 3

Equivalent Units

101980 - Culture, Society and Globalisation

Unit Enrolment Restrictions

Successful completion of 60 credit points in currently enrolled course.

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This is the compulsory Level 3 capstone unit for the Cultural and Social Analysis major and a compulsory unit in the Digital Cultures major. It gives students essential skills for researching and analysing contemporary cultural and social processes through a digital lens. Key topics include youth and digital culture, digital citizenship, racism and the digital, film and games, and digital work and economies. Through this unit, students gain an understanding of how digital technologies transform everyday practices, meanings and identities, create new opportunities and problems for addressing societal challenges and explore what it means to participate in a digital society, now and in the future.

300874.2 Digital Forensic Photography

Credit Points 10 **Level** 1

Prerequisite

300806.1 Forensic Science

Equivalent Units

300375 - Digital Forensic Photography 1

Unit Enrolment Restrictions

Students must be enrolled in 3589 Bachelor of Science (Forensic Science) or 3562 Bachelor of Science (Advanced Science) Forensic Science program (KT3149).

Special Requirements - Essential Equipment

Lab coat, Forensic science grip kit, Camera memory card

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Forensic photography serves an important function within forensic science for the purpose of scene and item documentation, as well as the detection and enhancement of forensic evidence. This unit introduces the student to the fundamental principles and practices of forensic photography. Topics include: principles of light science, digital imaging, camera and lighting operations, technical photography composition, and the maintenance of image integrity.

101250.3 Digital Futures

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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This unit examines the role of digital technologies in contemporary cultural production, exploring the impact digital technologies have had on the design and construction of images, spaces and bodies in the late 20th and early 21st centuries. The unit traces the development of technologies from analogue, to electronic, to digital, and analyses key topics in media studies including the cyborg, virtual reality, artificial life and simulation. The unit contextualizes conceptual issues with reference to design, film, art and new media works.

102425.1 Digital Humanities and Research Methods (UG)

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 60 credit points at Level 1.

Special Requirements - Essential Equipment

Access to a laptop or tablet device to bring to class.

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This unit investigates the methodological possibilities of digital technologies for interdisciplinary humanities and social sciences research. It covers several major digital research methods, exploring previous applications and examining their orientations and implications. Digital research methods and applications may include digitisation, online curation, visualisation, network analysis, geographical information systems, data mining and simulation. In the context of these, the unit will probe histories of technology and knowledge production, the evolution of digital texts and practices, and issues in contemporary culture such as digital design, gamification, virtual identity, and digital rights.

102426.1 Digital Humanities Research Methods (PG)

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit investigates the methodological possibilities of digital technologies for interdisciplinary humanities and social sciences research. It covers several major digital research methods, exploring previous applications and examining their orientations and implications. Digital research methods and applications may include digitisation, online curation, visualisation, network analysis, geographical information systems, data mining and simulation. In the context of these, the unit will probe histories of technology and knowledge production, the evolution of digital texts and practices, and issues in

contemporary culture such as digital design, gamification, virtual identity, and digital rights.

300069.3 Digital Signal Processing

Credit Points 10 **Level** 3

Assumed Knowledge

Students should be able to apply knowledge from 300005 - Circuit Theory; employ the basic principles of analysing an AC electric circuit; apply Kirchhoff's Voltage and Current laws and their use in electric circuits; apply Nodal analysis, mesh analysis and superposition analysis to AC electric circuits; utilise Laplace Transform and its applications to Electric Circuits; demonstrate the concept of Bode plot and frequency response; examine passive and active filters.

Prerequisite

300057.3 Signals and Systems

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This unit aims to provide an introduction to fundamental concepts and principles in digital signal processing. The subject matter includes discrete-time signals and systems, the z-transform, sampling of continuous-time signals, transform analysis of linear time-invariant systems, filter design techniques, structures for discrete-time systems, the discrete Fourier transform and computation of the discrete Fourier transform.

102253.1 Digital Social Research in Action

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge of digital social research

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Access to a computer or tablet device and internet connection. Access to relevant data analysis software.

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This unit engages students in the practices of digital social research through a simulation of a professional research consultancy. Students will construct and apply a digital social science approach for an internal or external client brief. Students will engage with client and stakeholder needs through their role as a consultant as they carry out the digital social research project for their client. In doing so, students engage with the ethical and moral implications of using digital social data and discover the opportunities to apply and communicate digital social research methods in real world settings.

300018.2 Digital Systems 1

Credit Points 10 **Level** 1

Assumed Knowledge

Topics from 300021 - Electrical Fundamentals: Understand the basic principles of analysing an electric circuit; understand Kirchhoff's Voltage and Current laws and their use in electric circuits; understand the concept of operational amplifier and its circuit.

Equivalent Units

700240 - Digital Systems 1 (WSTC AssocD)

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This unit provides students with a solid background in digital logic design. Students are introduced to the fundamentals of digital logic, basic logic devices and Boolean algebra. Analysis and design of combinational and sequential logic circuits is covered in detail.

700240.1 Digital Systems 1 (WSTC AssocD)

Credit Points 10 **Level** 1

Assumed Knowledge

Understand the basic principles of analysing an electric circuit, understand Kirchhoff's Voltage and Current laws and their use in electric circuits.

Equivalent Units

300018 - Digital Systems 1

Unit Enrolment Restrictions

Students must be enrolled in 7022 Associate Degree in Engineering

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This unit provides students with a solid background in digital logic design. Students are introduced to the fundamentals of digital logic, basic logic devices and Boolean algebra. Analysis and design of combinational and sequential logic circuits is covered in detail.

300019.4 Digital Systems 2

Credit Points 10 **Level** 3

Prerequisite

300018.2 Digital Systems 1

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This unit covers modern logic design techniques and the process of creating logic circuits and systems from design specifications to implementation. Topics include logic design techniques for combinational and sequential logic circuits; hardware description language (HDL); logic circuit implementation using an HDL; state-of-the-art logic circuit design tools; and programmable logic devices.

300880.1 Disaster and Emergency Management

Credit Points 10 **Level** 3

Equivalent Units

300449 - Environment, Health and Emergency Management, 300702 - Disaster and Emergency Management

Unit Enrolment Restrictions

Successful completion of 60 credit points at Level 1 and 40 credit points at Level 2. Students are required to have access to a personal computer.

Special Requirements - Essential Equipment

Students are required to have access to a personal computer.

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This unit explores the management of planning and preparation for and community responses to disasters and emergencies. Through case studies and presentations from current and cutting-edge professional practitioners in the field, students develop a 'hands on' understanding of risk assessment and prevention strategies for community safety during times of critical incidents. This includes emergency management strategies for community recovery and public education and preparation for potentially critical incidents. Workshop activities facilitate collaborative student learning through the use of developing scenarios including infectious disease pandemics, natural disasters and manmade emergencies such as terrorism.

101946.1 Discourse Analysis

Credit Points 10 **Level** 3

Prerequisite

101945.1 Introduction to Linguistics

Equivalent Units

101453 - Text and Discourse in English

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This unit explores language at the discourse level, introducing different linguistic approaches used in the analysis of discourse. It provides a general overview of major theoretical frameworks and current issues in discourse analysis. It examines authentic spoken and written examples, and demonstrates how discourse analysis is relevant to other disciplines such as media and communication, education, cultural and gender studies, and so on.

102625.1 Discovering language: Everything you've ever wanted to know but never asked

Credit Points 10 **Level** 3

Prerequisite

101945.2 Introduction to Linguistics

Equivalent Units

102044 - Research Methods in Linguistics

Unit Enrolment Restrictions

Successful completion of 60 credit points of study including 101945 - Introduction to Linguistics plus 20 credit points from units in the Linguistics major.

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Why can any child learn any language? How come there are so many languages on this planet? What is the most difficult language? What happens to us if we speak more than one language? There are plenty more questions about language that we all have and this unit is all about asking and finding out about language in an engaging way. Students will learn how to ask questions about language and what research can tell us in answering them. The unit will equip students with the tools to investigate many aspects of language as a defining feature of humans.

301111.1 Discovery Project

Credit Points 10 **Level** 3

Assumed Knowledge

Completed the bachelor's degree units in the students primary discipline.

Prerequisite

301033.1 Introduction to Data Science AND **301108.1** Thinking About Data AND **301107.1** Analytics Programming

Corequisite

301034.1 Predictive Modelling AND **301109.1** Visual Analytics AND **301110.1** Applications of Big Data AND **300958.2** Social Web Analytics

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In this unit students will gain experience in applying data science skills and using knowledge gained during their bachelor's course of their primary discipline. Students will carry out a real life project transforming data to knowledge under the supervision of an academic mentor. Students will develop a knowledge discovery project proposal and carry out a literature review highlighting the current status of the problem. Assisted by a mentor they will apply the data science skills learned through-out the degree and produce a final discovery project report and/or interactive project tool and give an oral presentation.

200025.2 Discrete Mathematics

Credit Points 10 **Level** 1

Assumed Knowledge

HSC Mathematics or equivalent

Equivalent Units

700010 - Discrete Mathematics (UWSC)

Incompatible Units

300699 - Discrete Structures and Complexity

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This Level 1 unit introduces set theory, symbolic logic, graph theory and some counting problems. It provides a solid foundation for further study in mathematics or computing.

300867.1 Disease Prevention and Control

Credit Points 10 **Level** 3

Assumed Knowledge

A background knowledge of microbiology, and epidemiology.

Equivalent Units

300782 - Disease Prevention and Control

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Globally we are witnessing an epidemiological transition with the emergence and re-emergence of diseases through social, political and environmental changes including rapid urbanisation, social media influence, international migration/travel, political instability and climate change. This unit of study will provide students with an introduction into the

epidemiology of public health diseases of significance in Australia and internationally through exploration of current strategies for the detection, monitoring and control of existing and emerging diseases. The principles of risk management will also be discussed and applied in relation to disease prevention, containment or eradication including vector-borne, vaccine preventable, zoonotic, food and waterborne disease.

300115.3 Distributed Systems and Programming

Credit Points 10 **Level** 3

Prerequisite

Successful completion of 300565 Computer Networking and either 300147 Object Oriented Programming or 300581 Programming Techniques.

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This unit covers the concepts, design, and programming of distributed systems. It builds on basic network communication protocols (specifically IP) to cover client server programming using both the system level socket interface and remote procedure calls. It also examines large scale distributed system architectures particularly those based on distributed objects and considers the complexities inherent in distributed transactions. Key concepts covered include data and algorithmic distribution, idempotent protocols, stateless and statefull servers, and distributed system transparency. Illustrative case studies are included.

200828.1 Diversity, Labour Markets and Workforce Planning

Credit Points 10 **Level** 7

Equivalent Units

47021 - Work and Society, 200723 - Work, Society and Labour Markets, 200724 - Workforce Planning

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course or course 8083 Bachelor of Research.

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Demographic change, economic cycles and labour force participation patterns influence the manner in which HRM functions are conducted. This unit focuses on the way an organisation's external environment impacts on both strategic and workforce maintenance planning. The unit is designed to enable employment relations professionals and managers to plan for organisational sustainability, managing workforce-related risk, and growth. The emphasis on labour markets, workforce diversity and planning allows for accommodation of demographic changes, human capital shortages and economic cycles when planning for labour supply and labour demand requirements. While the aim is to identify gaps between the present and future human capital needs – and implementing solutions so the organisation can accomplish its mission, goals, and objectives – the difficulty of this systematic and proactive process increases with the complexity of an organisation and the longer the time horizon used in the planning.

400961.1 Drugs on Line

Credit Points 10 **Level** 1

Equivalent Units

E1250 - Drugs On Line

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit deals with selected issues in drug use, misuse and abuse. An introductory section discusses mechanisms of drug action in the body and their likely effects. Some topical areas include; drugs in society (illicit drug taking and drug taking in sports), antidepressants and weight management therapeutic agents, and the exploration of complementary alternative medicines (CAMs) in Australian society.

300480.2 Dynamics of Mechanical Systems

Credit Points 10 **Level** 3

Prerequisite

300035.3 Kinematics and Kinetics of Machines AND **300040.2** Mechanics of Materials

Equivalent Units

300020 - Dynamics and Mechanical Systems

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This unit looks at how non-rigid components deform and oscillate. It looks at undamped and damped systems undergoing free vibration, steady state forced vibration and transient forced vibration. The principles of virtual work are used to investigate the equilibrium and dynamics of mechanisms.

300839.1 Ecology

Credit Points 10 **Level** 2

Assumed Knowledge

Knowledge of first-year university biology satisfactory completion of Biodiversity and Cell Biology or equivalent and the concepts of classification, evolution, taxonomy, cellular processes plant and animal structure and function.

Prerequisite

300802.1 Biodiversity OR **300816.1** Cell Biology OR **300813.1** Wildlife Studies OR **300824.1** Management of Aquatic Environments

Equivalent Units

EY210A - Ecology 2.1; 300634 - Ecology; EY201A - Ecology 2.1 (V1)

Special Requirements - Essential Equipment

Covered footwear for field excursions; safety goggles for one Laboratory

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We live in a society where environmental problems dominate public debate. Ecology is one of the sciences required to find solutions to such problems; terms and ideas that came originally from ecology are used in public discussions, and in legislation. This unit will introduce students to ecology: what is studied, how it is studied, what are the strengths and limitations of ecology. Current ecological thinking will be covered, from the scale of individual organisms, through populations, and up to communities and ecosystems. Methods of study will be highlighted using evidence from molecular ecology through to field investigations.

200916.1 Economic and Financial Modelling

Credit Points 10 **Level** 3

Prerequisite

200032.5 Statistics for Business OR **200052.5** Introduction to Economic Methods

Equivalent Units

200053 - Economic Modelling

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Economic and Financial Modelling examines regression analysis and its use in business especially in economics, finance and accounting. Topics will include the properties of estimators, hypothesis testing, specification error, multicollinearity, dummy variables, heteroskedasticity, serial correlation. It also introduces other modelling techniques in finance and economics. Empirical assignments undertaken by the student form an integral part of the unit. The emphasis is on learning by doing in small group workshops.

200537.4 Economics and Finance Engagement Project

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Students in the following courses must have successfully completed 150 credit points: 2504 Bachelor of Economics, 2526 Bachelor of Economics/LLB, 2739 / 2753 Bachelor of Business and Commerce, 2741 / 2754 Bachelor of Business and Commerce (Advanced Business Leadership), 3655 Bachelor of Information and Communications Technology/ Bachelor of Business and Commerce, 3659 Bachelor of Science/ Bachelor of Business and Commerce, 2740 Bachelor of Business and Commerce / Bachelor of Laws.

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This unit will provide students with exposure to problems with which economists and finance professionals are confronted in their daily work. They will learn about and examine the multi-dimensional nature of the issues addressed by economists and finance professionals in real-life. Students will need to consider the nature of the problems, propose solutions, as well as address how realistic the solutions they are proposing are. They will learn how to systematically reflect on their contribution to the industry or community setting with which they engage.

300856.1 Ecosystem Carbon Accounting

Credit Points 10 **Level** 3

Prerequisite

300837.1 Climate Change Science

Special Requirements - Essential Equipment

Covered footwear for field work

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A critical part of society's response to climate change is to measure the movement of greenhouse gases. Once this is done, steps taken to reduce these gases can be correctly targeted and the impact of such steps monitored. This unit will introduce students to the scientific measurement of greenhouse gas uptake and emissions, including assessment of uncertainties and verifiability of measurement. Ecosystem-level models will be used to estimate and quantify movement of greenhouse gases, allowing quantification of the net greenhouse gas emissions over the life cycle of a product. These approaches are vital steps in moving our society to a sustainable future.

800170.1 Ecosystems in a Changing World

Credit Points 10 **Level** 7

Assumed Knowledge

A Bachelor of Science in Biology, Environmental Science, or Agricultural Science, with some background in plant science and ecology.

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Natural and managed ecosystems on our planet are experiencing a rapidly changing environment as a consequence of changing patterns of land and resource use, loss of biodiversity, altered atmospheric composition and anthropogenic climate change. This unit will introduce students to ecosystem concepts in the context of ecological and evolutionary responses to global change. Students will obtain practical experience in quantitative analysis of carbon, nutrient, water and energy budgets, and explore the consequences of global change for ecosystem services and biodiversity over a range of spatial and temporal scales. Teaching will be led by HIE staff with expertise in ecosystem responses to environmental change, soil microbial contributions to ecosystem function and the impacts of environmental change on plants, animals and their interactions.

102435.1 Editing and Publishing

Credit Points 10 **Level** 2

Assumed Knowledge

Students will be expected to have undergraduate first year level reading and writing skills.

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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What makes a good editor? How do editing and publishing work in Australia and the wider market? This unit provides an introduction to basic skills required when editing texts for

publication, and a survey of key issues confronting literary publishing in Australia. Skills in editing and an understanding of Australian publishing are valuable assets for students of creative writing. They are also relevant to industry-based work in a range of related fields such as advertising, public relations and journalism. This unit will focus on three areas: the practice of editing, modes of publishing, and the economics of writing and publishing.

101263.1 Education and Transformation

Credit Points 10 **Level** 2

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This unit provides opportunities for students to examine theories and practices associated with Transformative Learning in relation to their personal development as educators. Transformative Learning is learning that is empowering, deep and life changing. It and similar ways of approaching learning – the holistic, ecological and systemic - share a reflective base. All are inquiries into the relationships that make learning work. Students investigate these as theoretical and practical approaches to learning in real world settings: as powerful educational feedback systems. This unit combines the design and practical enactment of theoretically grounded approaches to socially relevant and personally meaningful learning.

101663.2 Education for Sustainability

Credit Points 10 **Level** 2

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Increasingly, the need to develop sustainable ways of living that can reduce our ecological footprint and conserve precious natural resources for future generations is recognised as a critical concern of education at all levels. Developing 'sustainability literacy' requires new ways of thinking and learning that enable us to recognise the connections between environmental concerns, social patterns and individual actions. This unit approaches key issues in sustainability education with a learner-centred approach that builds skills for inquiry, analysis and creative action and involves a three-hour field trip. It promotes personal and social change, develops civic values and empowers learners to be leaders for a sustainable future.

101661.2 Education in a Cosmopolitan Society

Credit Points 10 **Level** 3

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This unit responds to the question of what it might mean to educate "world teachers" for a cosmopolitan age where classrooms and schools are being shaped by the increasing mobility of ideas, people, technology, media and finance. For some time, multicultural education, as policy and practice, has dominated schooling in Australia. While this was an important period in Australia, times have changed. The globalisation of teaching is one dimension of this change as supranational bodies more and more shape what teachers do. Set against these global agendas are the mobilities that teachers must respond to at the local level. This unit examines cosmopolitan social and education theory as a means to understand these dynamics, framing teachers as agents of change.

102160.1 Education Policy, Practice and Global Knowledge Co-construction

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This Unit explores the relationship between education and knowledge through reference to questions about the links between education policy practices and global knowledge production. The conceptual framework which provides the focus for this Unit explores the dynamic, cyclical relations between the following: conditions of possibility for linking education policy practices and global knowledge production; contexts of negotiation/distance that affect this relationship; the modes of reception and rejection of the impact of linking of the two, and the mechanisms of connection that make this possible. These core concepts provide a focus for exploring questions about the relationship between 'education policy practices' and 'global knowledge production' in students' everyday work-life.

300070.4 Electrical Drives

Credit Points 10 **Level** 3

Prerequisite

[300071.2](#) Electrical Machines 1

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The unit aims to introduce the study of electrical machines and drives. The subject covers various types of electrical motors and drive systems, their applications and control. The unit covers various types of the speed control, starting and braking systems and the dynamics of different electrical drives.

300021.2 Electrical Fundamentals

Credit Points 10 **Level** 1

Equivalent Units

700024 Electrical Fundamentals (WSTC); 700104 Electrical Fundamentals (WSTC Assoc Deg)

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This unit is to introduce a number of concepts within electrical engineering. These include The basic definitions of charge, current, potential difference, power; Electric circuits and basic laws such as Ohms and Kirchoffs Laws; Thevenin, Nortons and the maximum power theorems; Capacitor and resistor circuits and time constants, An introduction to Electronics, communication waves, Logic gates and number systems and an introduction to Electrical Machines and Renewable Energy systems Basic principles are explained and applied to a range of typical electrical circuits and devices. These foundations provide students with the basic requirements for a career in engineering where the concepts can be developed or applied to more complex engineering systems.

700104.2 Electrical Fundamentals (WSTC AssocD)

Credit Points 10 **Level** 1

Equivalent Units

300021 - Electrical Fundamentals, 700024 - Electrical Fundamentals (WSTC)

Unit Enrolment Restrictions

Students must be enrolled in 7022 Associate Degree in Engineering

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The objective of this unit is to introduce to the student a number of concepts within electrical engineering. These include basic definitions of charge, current, potential difference, power; electric circuits and basic laws such as Ohm's and Kirchoff's Laws; Thevenin, Norton's and the maximum power theorems; electromagnetism and the associated fundamental laws; capacitor and resistor circuits and time constants; an introduction to Electronics; communication waves; Logic gates and number systems; and an introduction to Electrical Machines and Renewable Energy systems. Basic principles are explained and applied to a range of typical electrical circuits and devices. These foundations provide students with the basic requirements for a career in engineering where the concepts can be developed or applied to more complex engineering systems.

700024.3 Electrical Fundamentals (WSTC)

Credit Points 10 **Level** 1

Prerequisite

Students enrolled in 6033 Diploma in Engineering/Bachelor of Engineering Studies or 7034 Diploma in Engineering or 7066 Diploma in Engineering Extended must pass 700145 Foundation Physics 2 before enrolling in this unit.

Equivalent Units

300021 - Electrical Fundamentals, 700104 - Electrical Fundamentals (WSTC Assoc Deg)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

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The objective of this unit is to introduce to the student a number of concepts within electrical engineering. These include the basic definitions of charge, current, potential difference, power; electric circuits and basic laws such as Ohm's and Kirchoff's Laws; Thevenin, Norton's and the maximum power theorems; electromagnetism and the associated fundamental laws; capacitor and resistor circuits and time constants; an introduction to Electronics; communication waves; Logic gates and number systems; and an introduction to Electrical Machines and Renewable Energy systems. Basic principles are explained and applied to a range of typical electrical circuits and devices. These

foundations provide students with the basic requirements for a career in engineering where the concepts can be developed or applied to more complex engineering systems.

300071.2 Electrical Machines 1

Credit Points 10 **Level** 3

Prerequisite

300052.2 Power and Machines

This unit introduces the fundamental principles of electrical machines: DC generators and motors, induction motors and synchronous machines. The unit also introduces various special purpose electrical machines, such as permanent magnet machines, step motors and reluctance machines.

300025.3 Electronics

Credit Points 10 **Level** 2

Assumed Knowledge

Topics associated with the unit 300464 - Physics and Materials: Vibrations and wave phenomena; Photoelectric effect, atomic structure and periodic table; Electricity and magnetism. Students should have a sound understanding of: The basic principles of analysing an electric circuit; Kirchhoff's Voltage and Current laws and their use in electric circuits; Nodal analysis, mesh analysis and superposition analysis in DC electric circuits; Thevenin and Norton equivalent and their use in electric circuits; The storage elements capacitor and inductor and understand their performance in first and second order circuits.

Prerequisite

300021.2 Electrical Fundamentals

Equivalent Units

700242 - Electronics (WSTC AssocD)

This unit further develops skills in the analysis, design, practical implementation and testing of the main analogue electronic circuits. Topics covered are: semiconductor diodes and their applications, Bipolar Junction Transistors (BJT), Field Effect Transistors (FET), analysis of BJT and FET, design of discrete operational amplifiers, and operational amplifier characteristics and circuit configurations.

700242.1 Electronics (WSTC AssocD)

Credit Points 10 **Level** 2

Assumed Knowledge

Vibrations and wave phenomena; photoelectric effect, atomic structure and periodic table, electricity and magnetism

Prerequisite

700104.2 Electrical Fundamentals (WSTC AssocD)

Equivalent Units

300025 - Electronics

Unit Enrolment Restrictions

Students must be enrolled in 7022 Associate Degree in Engineering

This unit further develops skills in the analysis, design, practical implementation and testing of the main analogue electronic circuits. Topics covered are: semiconductor diodes and their applications, Bipolar Junction Transistors (BJT), Field Effect Transistors (FET), analysis of BJT and FET, design of discrete operational amplifiers and operational amplifier characteristics and circuit configurations.

102575.1 Emergency and Disaster Management

Credit Points 10 **Level** 7

This unit uses comparative analysis of different emergency responses to humanitarian disasters to provide students with the skills and knowledge required to play a role in future emergency and disaster management. Students will gain knowledge of the geo-political forces and key international frameworks and standards that shape humanitarian responses, and of the motivations and approaches of aid donors and humanitarian NGOs when intervening in states. They will also gain foundational knowledge of assessment of NGO capacities and organisational infrastructure for managing emergencies, for example their organisational structures and cultures, donor priorities, support systems and personnel.

800186.1 Emerging Technologies for Biological Science

Credit Points 10 **Level** 7

Assumed Knowledge

Students should have an undergraduate degree in Biology, Environmental Science, Medical Science, or Agricultural Science, with a background in biological sciences, including some knowledge of molecular biology, genetics, biochemistry and/or physiology.

Unit Enrolment Restrictions

Students must be enrolled in the Bachelor of Research Studies/ Master of Research.

Special Requirements - Essential Equipment

Outlines of lectures and additional reading will be placed on the vUWS site for the unit. Students will have an approved lab coat, safety glasses and closed footwear for the laboratory practical sessions. Students will have appropriate safety clothes/equipment or they will be excluded from the practical session and will be marked as absent. Students are to follow lecturers' and demonstrators' instructions during practical classes. Students are advised to ensure that they have been immunised against tetanus within the last 5 years.

This unit serves to enhance the technological education and training for students undertaking research in biological, agricultural and medical sciences. The unit will teach

current and emerging technologies utilised in biological investigations with a focus on model species of animals, plants, insects and microorganisms. The unit is structured around emerging technologies in research fields of: 1) whole organism physiology, 2) cell molecular biology and biochemistry, and 3) genomic and epigenomic processes encoded by the nucleus. Students will be exposed to a systems approach in order to investigate complex interactions with a view towards understanding the impacts of the environment on biological interactions. Teaching will be undertaken by Western Sydney University-HIE staff who are world leaders in their respective research fields.

300584.4 Emerging Trends in Information Systems

Credit Points 10 **Level** 3

Prerequisite

300573.2 Information Systems in Context AND **300582.2** Technologies for Web Applications

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This unit provides a means for students to self-reflect on their future career and their possible involvement in the field of Information Systems and explore the changing nature of information systems in organisations via one of the following: engagements with local businesses, specifically crafted study tours or focused internships. In this unit students will study the role that emerging technologies play in selection, design and development of information systems. Students will be able to research and assess new technologies while networking and engaging with real life businesses, as well as develop and introduce effective strategies for achieving change and improvement that can be delivered by successfully implementing emerging technologies.

300942.2 Emerging Trends in Information Systems (Advanced)

Credit Points 10 **Level** 3

Prerequisite

300573.2 Information Systems in Context AND **300582.2** Technologies for Web Applications

Incompatible Units

300584 - Emerging Trends in Information Systems

Unit Enrolment Restrictions

Students must be enrolled in 2801 Bachelor of Information Systems Advanced/Bachelor of Laws; 3688 Bachelor of Information Systems Advanced or 3745 Bachelor of Information Systems Advanced/Bachelor of Business.

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This unit provides a means for students to self-reflect on their future career and their possible involvement in the field of Information Systems. In this advanced unit students will be required to undertake an individual but closely supervised research project. Students will explore the changing nature of information systems in organisations via one of the following: engagements with local businesses, specifically crafted study tours or focused internships. In this unit students will study the role that emerging technologies play in selection, design and development of

information systems. Students will be able to research and assess new technologies while networking and engaging with real life businesses, as well as develop and introduce effective strategies for achieving change and improvement that can be delivered by successfully implementing emerging technologies. In addition, students in this unit will be required to present their findings in a form of an academic paper with a possibility of publishing.

100860.3 Emotions, Culture and Community

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit examines forms of cultural expression and collective selfunderstanding articulated as emotional identifications. Topics covered may include shame, pride, responsibility, forgiveness, resentment, hope, disgust, generosity, happiness, hate and love. The unit explores how these have been taken up in contemporary cultural analysis as a focus for understanding affinities and conflicts between individuals and communities and for how Australians imagine their historical interconnectedness. It introduces some key theoretical perspectives that have been, and might be, applied to the study of emotions, culture and community.

100861.3 Empire: European Colonial Rule and its Subjects, 1750-1920

Credit Points 10 **Level** 2

Equivalent Units

63125 - The World Encircled 1100 - 1600

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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A historical investigation of the experience of the 19th century European empires from the perspectives of both the colonised and colonisers. It examines the combination of domination and cultural negotiation between colonisers and colonised. It examines both how peoples were managed as imperial subjects and how they responded to this management. It looks both at the effect of imperial rule on the colonised, and of empire upon the colonisers. It draws upon historical literature from a variety of sources and perspectives, and within European and Asian history. The focus is chiefly, though not exclusively, upon the British empire and its subject peoples.

700279.1 Empowering Individual Health (WSTC Prep)

Credit Points 10 **Level** Z

Unit Enrolment Restrictions

Students must be enrolled in 7142 Diploma in Health Science Extended or 7143 Diploma in Health Science Extended (HPE).

Empowering Individual Health focuses on the health care system in Australia. It aims to give students an understanding of the different elements that constitute the health care system in Australia and abroad. The unit will look at how the structure and funding of the health care system, as well as the political environment in which it operates, impacts life expectancy in a country, as well as how the elements of the health care system impact national and individual health enabling behaviours.

102148.1 Engaging Communities

Credit Points 10 **Level** 7

Community engagement is variously seen as a strategy for improving educational outcomes, increasing community ownership and/or empowering citizens to take collective action. Although appeals to 'community' often assume a homogeneous ideal, active community engagement needs to respond to a diversity of needs and experiences. This unit begins by exploring the notion of community, its uses and meanings in different discursive and professional contexts. Students will be introduced to theory and praxis aimed at identifying community needs, partnering across diversity and working effectively and inclusively to build community strengths and engagement. The unit's applied learning focus requires students to develop and implement a community engagement strategy for a selected setting.

102340.1 Engaging Discursive Fields

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

This unit creates an opportunity for intensive reading on the candidate's research project. Lectures and seminars direct students to identify classic texts, watershed publications, leading scholars, and current debates in their chosen field of research. While expanding their knowledge of existing scholarship, they will become aware of the discursive structures and academic protocols that govern their discipline. What theoretical approaches are used? What does the field of research require of its scholars? What makes their work authoritative? What sources do they use? What questions guide their research? In what context? How has the discursive field changed over time? Such questions direct the formulation of a research project of current relevance.

300027.2 Engineering Computing

Credit Points 10 **Level** 1

Assumed Knowledge

Basic knowledge in use of computers and Windows operating system

Equivalent Units

700018 Engineering Computing (WSTC); 700106 Engineering Computing (WSTC Assoc Deg)

Engineering computing is an introduction to using computation to solve real problems. The unit also aims to instil sound principles of program design that can be utilised in many units throughout the students' course. The basic elements and structures of a high level language are taught. Students are exposed to numerous engineering problems and are encouraged to implement solutions using an algorithmic approach.

700106.2 Engineering Computing (WSTC AssocD)

Credit Points 10 **Level** 1

Assumed Knowledge

Basic knowledge in use of computers and Windows operating system

Equivalent Units

300027 - Engineering Computing, 700018 - Engineering Computing (WSTC)

Unit Enrolment Restrictions

Students must be enrolled in 7022 Associate Degree in Engineering

Engineering computing is an introduction to using computation to solve real problems. The unit also aims to instil sound principles of program design that can be utilised in many units throughout the students' course. The basic elements and structures of a high level language are taught. Students are exposed to numerous engineering problems and are encouraged to implement solutions using an algorithmic approach.

700018.2 Engineering Computing (WSTC)

Credit Points 10 **Level** 1

Assumed Knowledge

Basic knowledge in use of computers and Windows operating system

Prerequisite

Students enrolled in 7066/7162 Diploma in Engineering Extended or 7082 Bachelor of Engineering Extended (WSTC First Year Program) must pass 700204 Introductory Programming (WSTC Prep) before enrolling in this unit.

Equivalent Units

300027 - Engineering Computing, 700106 - Engineering Computing (WSTC Assoc Deg)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College unless specific permission has been granted by the School of Computing, Engineering & Mathematics. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

Engineering Computing is an introduction to using computation to solve real problems. The unit also aims to instil sound principles of program design that can be utilized in many units throughout the students' course. The basic elements and structures of a high level language are taught. Students are exposed to numerous engineering problems and are encouraged to implement solutions using an algorithmic approach.

300481.2 Engineering Electromagnetics

Credit Points 10 **Level** 2

Assumed Knowledge

The students should have a good understanding of 300021 - Electrical Fundamentals or equivalent

Prerequisite

200238.2 Mathematics for Engineers 2 AND **300963.1** Engineering Physics OR **300464.2** Physics and Materials

Equivalent Units

300022 - Electromagnetics, 300073 - Electromagnetic Compatibility

.....
This unit introduces Maxwell's equations in integral and differential form and their application to basic theory and application of electromagnetic structures, wave propagation, guides waves, antennas and Electromagnetic compatibility.

301001.1 Engineering Geomechanics

Credit Points 10 **Level** 3

Prerequisite

300732.2 Structural Analysis AND **300985.1** Soil Mechanics OR **300731.2** Soil Engineering

Equivalent Units

300485 - Foundation Engineering

.....
This unit will present the application of principles of soil mechanics to the solution of foundation and geotechnical problems including the evaluation of allowable bearing capacity of shallow and pile foundations, the stability of earth retaining structures and the stability of slopes.

700109.2 Engineering Management for Engineer Associates (WSTC AssocD)

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Students must be enrolled in 7022 Associate Degree in Engineering

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The unit will provide the knowledge and skills to enable students to support the achievement of organisational goals through applying knowledge of environment and internal culture. The unit evaluates planning processes and goal setting to achieve superior performance and compares alternative approaches to motivation of work team members. Students will consider types of managerial

communications and their associated communications channels in achieving best professional practice.

300965.1 Engineering Materials

Credit Points 10 **Level** 1

Assumed Knowledge

HSC mathematics (not General Mathematics), physics and chemistry.

Equivalent Units

300462 - Engineering & Design Concepts (EDC), 700021 - Engineering and Design Concepts (UWSC), 700105 - Engineering and Design Concepts (UWSC Assoc Deg), 700147 - Engineering Materials (WSTC Assoc Deg), 700152 - Engineering Materials (WSTC)

.....
This unit will introduce fundamentals of engineering materials. The topics will include materials structure, properties, processing and applications, degradation of materials, sustainability, and the selection of materials for various engineering applications.

700147.2 Engineering Materials (WSTC AssocD)

Credit Points 10 **Level** 1

Assumed Knowledge

HSC mathematics (not General Mathematics), physics and chemistry

Equivalent Units

300462 - Engineering and Design Concepts, 700021 - Engineering and Design Concepts (UWSC), 700105 - Engineering and Design Concepts (UWSC Assoc Deg), 300965 - Engineering Materials, 700152 - Engineering Materials (WSTC)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College in 7022 - Associate Degree in Engineering

.....
This unit will introduce fundamentals of engineering materials. The topics will include materials structure, properties, processing and applications, degradation of materials, sustainability and the selection of materials for various engineering applications.

700152.3 Engineering Materials (WSTC)

Credit Points 10 **Level** 1

Assumed Knowledge

HSC mathematics (not General Mathematics), physics and chemistry

Prerequisite

Students enrolled in 6033 Diploma in Engineering/Bachelor of Engineering Studies or 7034 Diploma in Engineering or 7066 Diploma in Engineering Extended must pass 700145 Foundation Physics 2 before enrolling in this unit.

Equivalent Units

300462 - Engineering and Design Concepts, 300965 - Engineering Materials, 700021 - Engineering and Design Concepts (UWSC), 700105 - Engineering and Design Concepts (UWSC Assoc Deg), 700147 - Engineering Materials (WSTC Assoc Deg)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

.....

This unit will introduce fundamentals of engineering materials. The topics will include materials structure, properties, processing and applications, degradation of materials, sustainability and the selection of materials for various engineering applications.

300963.1 Engineering Physics

Credit Points 10 **Level** 1

Assumed Knowledge

HSC physics and HSC mathematics (not General Mathematics)

Equivalent Units

300464 - Physics and Materials, 700020 - Physics and Materials (UWSC), 700117 - Physics and Materials (UWSC Assoc Deg), 700151 - Engineering Physics (WSTC), 700153 - Engineering Physics (WSTC AssocD)

.....

This unit serves as an introduction to the fundamentals of engineering physics with appropriate applications in a wide range of engineering and industrial design systems.

700153.2 Engineering Physics (WSTC AssocD)

Credit Points 10 **Level** 1

Assumed Knowledge

HSC physics and HSC mathematics (not General Mathematics)

Equivalent Units

300464 - Physics and Materials, 300963 - Engineering Physics, 700020 - Physics and Materials (UWSC), 700117 - Physics and Materials (UWSC Assoc Deg), 700151 - Engineering Physics (UWSC)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College in 7022 Associate Degree in Engineering

.....

This unit serves as an introduction to the fundamentals of engineering physics with appropriate applications in a wide range of engineering and industrial design systems. Students will be expected to solve problems by applying the

laws and principles of engineering physics in the following areas covered by the unit – units and vectors, linear and circular motion, photons, electrons and atoms, force systems and equilibrium, work and energy applications, dynamics of rotational motion, fluid dynamics, heat and thermodynamics, periodic motion and wave phenomena, electricity and magnetism.

700151.3 Engineering Physics (WSTC)

Credit Points 10 **Level** 1

Assumed Knowledge

HSC physics and HSC mathematics (not General Mathematics)

Prerequisite

Students enrolled in 7034 Diploma in Engineering, 7066 Diploma in Engineering Fast Track or 6033 Diploma in Engineering/Bachelor of Engineering Studies must pass 700145 Foundation Physics 2 before enrolling in this unit.

Equivalent Units

300464 - Physics and Materials, 300963 - Engineering Physics, 700020 - Physics and Materials (UWSC), 700117 - Physics and Materials (UWSC Assoc Deg), 700153 - Engineering Physics (WSTC Assoc Deg)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

.....

This unit serves as an introduction to the fundamentals of engineering physics with appropriate applications in a wide range of engineering and industrial design systems.

700110.2 Engineering Project (WSTC AssocD)

Credit Points 10 **Level** 2

Prerequisite

700118.2 Professional Practice for Engineer Associates (WSTC AssocD)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College in 7022 Associate Degree in Engineering

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In this unit, students will use project management tools, techniques and practices to plan and control a project that achieves stated requirements on time and within budget. Students will plan a project including the creation of a statement of work, a work breakdown structure and an appropriate set of supporting work packages.

300971.1 Engineering Project 1

Credit Points 10 **Level** 4

Corequisite

300741.2 Industrial Experience (Engineering)

Unit Enrolment Restrictions

Students must be enrolled in the Bachelor of Engineering, Bachelor of Engineering (Honours) or Bachelor of Engineering Advanced (Honours) and have successfully completed 200 credit points.

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This unit describes engineering as a profession, including professional ethics and legal obligations highlighted. Fundamentals and theories related to contract and project management will form part of this unit. Throughout the semester, the focus will be on development of research and presentation skills of students enrolled in this unit. This will be achieved through employment of appropriate research skills on a capstone project which demonstrates student's professional level of identifying, planning, and designing engineering project and completion of a technical progress report. The capstone project will be continued in unit 300972 Engineering Project 2.

300972.1 Engineering Project 2

Credit Points 10 **Level** 4

Prerequisite

300971.1 Engineering Project 1

Corequisite

300741.2 Industrial Experience (Engineering)

Unit Enrolment Restrictions

Students must be enrolled in Bachelor of Engineering, Bachelor of Engineering (Honours) or Bachelor of Engineering Advanced (Honours) and must have successfully completed 200 credit points.

.....

Throughout the semester, the focus will be on development of research and presentation skills of students enrolled in this unit. This will be achieved through employment of appropriate research skills on a capstone project which demonstrates student's professional level of executing, testing and documenting an engineering project and completion of a technical report. This unit is a continuation of 300971 Engineering Project 1.

300967.1 Engineering Science Project 1

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Students must be enrolled in 3691 Bachelor of Engineering Science, 6033 Diploma in Engineering/Bachelor of Engineering Studies or 7117 Diploma in Engineering/Bachelor of Engineering Studies and must have successfully completed 160 credit points.

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This unit describes engineering as a profession, including professional ethics, legal obligations and fundamentals and

theories related to project management. The focus will be on development of research and presentation skills of students enrolled in this unit. It will be achieved through employment of appropriate research skills on a capstone project which demonstrates student's knowledge in identifying and planning an engineering project.

300968.1 Engineering Science Project 2

Credit Points 10 **Level** 3

Prerequisite

300967.1 Engineering Science Project 1

Unit Enrolment Restrictions

Students must be enrolled in 3691 Bachelor of Engineering Science, 6033 Diploma in Engineering/Bachelor of Engineering Studies or 7117 Diploma in Engineering/Bachelor of Engineering Studies and must have successfully completed 180 credit points.

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In this unit, the focus will be on development of research and presentation skills of students, which will be achieved through employment of appropriate research skills on a capstone project. It will demonstrate student's knowledge by conducting an engineering project and completion of a technical report.

300973.2 Engineering Thesis 1: Preliminary Investigations

Credit Points 10 **Level** 5

Unit Enrolment Restrictions

Students must be enrolled in 3689 Bachelor of Engineering, 3728 Bachelor of Engineering (Honours)/Bachelor of Business or 3740 Bachelor of Engineering (Honours) and have successfully completed 220 credit points.

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The Engineering Thesis 1 - Preliminary Investigations unit consists of a research project designed and implemented under the direction of an academic supervisor and research mentor. This unit is the culmination of studies for students who have completed their first three years of an undergraduate degree and provides substantial training in Preliminary Investigations. Under staff supervision, students are allocated a particular topic for their research, design their own programme of research, and perform the research. The emphasis of this unit is on the application of research knowledge gained in other units to the practical conduct of the individual research project. This unit provides final year engineering students with the opportunity to undertake research on a specialist topic within their Key Program of undergraduate study.

300974.2 Engineering Thesis 2: Detailed Investigations

Credit Points 10 **Level** 5

Prerequisite

300973.2 Engineering Thesis 1: Preliminary Investigations

Unit Enrolment Restrictions

Students must be enrolled in 3689 Bachelor of Engineering, 3728 Bachelor of Engineering (Honours)/Bachelor of

Business or 3740 Bachelor of Engineering (Honours) and have successfully completed 220 credit points.

.....

The Engineering Thesis 2 - Detailed Investigations unit consists of a research project designed and implemented under the direction of an academic supervisor and research mentor. This unit is the culmination of studies for students who have completed their first three years of an undergraduate degree and provides substantial training in detailed Investigations. Under staff supervision, students are allocated a particular topic for their research, design their own programme of research, and perform the research. The emphasis of this unit is on the application of research knowledge gained in other units and in Engineering Thesis 1 - Preliminary Investigations to the practical conduct of the individual research project. This unit provides final year engineering students with the opportunity to undertake research on a specialist topic within their Key Program of undergraduate study.

300029.3 Engineering Visualization

Credit Points 10 **Level** 2

Assumed Knowledge

C++ Programming and 3-D Geometry

Prerequisite

[300027.2](#) Engineering Computing

Equivalent Units

80151 - Computer Graphics

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This unit is aimed to provide a comprehensive introduction to fundamental concepts and algorithms in engineering visualization. Topics covered include visualization hardware, scan conversion of geometric primitives, 2D and 3D transformations, 3D viewing and projection, hidden surface removal, solid modeling, illumination models and image manipulation.

102438.1 English as an International Language

Credit Points 10 **Level** 1

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English is the first Global Language and the most important international Lingua Franca today. The teaching of English as a second or foreign language is a huge industry internationally, and a driver of export dollars in the Australian economy. The teaching of English as an International Language (EIL) is a new area of study and it is indispensable for any student seeking to gain a competitive edge in an international career. This unit is a key introductory unit in the International English Major. It is designed to equip graduates with marketable skills across multiple areas, including International Relations, Marketing and Business, Interpreting and Translation, and TESOL.

700270.1 English for International Students 1 (WSTC Prep)

Credit Points 0 **Level** Z

102439.1 English Language Analysis

Credit Points 10 **Level** 2

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In this unit, students will develop a thorough understanding of the structure of English and the use of English across contexts. Students will study the workings of the English language, including its sounds, grammar, syntax and textual forms, through the analysis of diverse texts. The skills developed through the analysis of real-world texts throughout the unit will prepare students for effective participation in a range of personal and professional contexts, enhancing their capacity for study and for employment.

102476.1 English Language Linguistics

Credit Points 10 **Level** 3

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This unit offers students a formal study of the workings of the English language as it is used around the world. Using real-world examples, this unit builds on the content and skills which students have developed in the unit: English as an International Language. It prepares students with a thorough knowledge of variations in English across the globe, introducing them to the ways in which English varies at phonological, grammatical and register levels across contexts. This unit is essential for a student's development of more formal skills in the English language, developing their English knowledge and skill into a professional and personal asset.

101825.3 English Linguistics for TESOL

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit provides students with a linguistics background, including English grammar, necessary to excel in English language teaching and assessment. Encompassing the areas of syntax, semantics, morphology, phonology and phonetics, the unit equips students with the technical vocabulary of linguistics and pedagogical grammar as well as the analytical skills necessary to identify and describe both the English language and patterns of performance by second and bilingual language learners. These foundational skills prepare students for success in language teaching, assessment and second language research.

101976.2 English Literature After 1830

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

.....

This unit involves the study of texts from three specific periods - the Victorian, the Modernist, and Post World War II. Students will engage with the work of key writers from

each era as a way of interrogating the social, political and cultural preoccupations of particular periods in literary history. Students will also examine the various critical traditions that have arisen in response to these writers' work.

101974.1 Enlightenment and Revolution

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

.....

The Enlightenment and Age of Revolutions are pivotal moments in Western and global history and had lasting political and cultural repercussions. This module seeks to explore links between them and to place them in wider intellectual and cultural context. Particular focus will be placed upon the paradigmatic French revolution, but within a framework emphasising other revolutions of the period. Hence individual classes treat society and government in Europe; the moderate and radical strands of enlightenment; precursors to the French revolution in the Atlantic world; the public sphere; the French revolution and Terror; Revolutionary Imperialism and Napoleonic rule; the revolutionary legacy.

200614.2 Enterprise Industrial Relations

Credit Points 10 **Level** 2

Prerequisite

200300.2 Managing People at Work

Equivalent Units

61432 - Enterprise Industrial Relations

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Enterprise Industrial Relations builds participants' analytical and research abilities, developing capacity to identify, diagnose and engage with industrial relations challenges from different stakeholder perspectives. Participants work with real-world industrial relations, looking at individual employees' workplace and labour market experiences; the goals and activities of managers; and the role and practices of tribunals, enforcement agencies, employer associations and trade unions. This is done through activities that require working collaboratively on problems using online research to investigate contemporary practice, such as the drivers behind enterprise agreements and the implications of institutional arrangements and trade unions for productivity, equity and human resource utilisation. It is a core unit for the human resource management undergraduate program.

200911.1 Enterprise Innovation and Markets

Credit Points 10 **Level** 1

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Enterprise Innovation and Markets introduces students to key concepts, business models and issues surrounding contemporary business. Students will develop an understanding of the private enterprise system and business ownership, the implications of marketing and economics on market structure together with managing

innovation. Building on the foundation knowledge of the key principles of markets, students will be able to transfer this knowledge into their subsequent study of specialist areas. The unit also aims to develop students' communication skills by working in teams to enhance their literacy proficiency and enhance their critical thinking in preparation for the more advanced units of the degree.

200909.2 Enterprise Law

Credit Points 10 **Level** 1

Equivalent Units

61511 - Introduction to Legal Principles, 200184 - Introduction to Business Law, 700004 - Introduction to Business Law (UWSC), 700079 - Introduction to Business Law (Creative Industries), 700254 - Enterprise Law (UWSC)

Unit Enrolment Restrictions

This unit is not to be taken as part of a Bachelor of Laws course attempt. External offerings are only available to students enrolled in a Property Major. UEH offerings are only available to students enrolled in the Bachelor of Business or Bachelor of Business and Commerce, attending offshore on-campus, at the University of Economics, Ho Chi Minh City.

.....

This is an introductory law unit designed to introduce the fundamentals of law in a commercial context. The unit introduces students to the basic principles of law and the legal system as well as examining some of the major areas of law that impact on commercial dealings. This unit examines the legal system, the way law is made and the main areas of law relevant to starting and running a business including contracts, negligence and consumer protection.

700254.1 Enterprise Law (WSTC)

Credit Points 10 **Level** 1

Prerequisite

700216.1 Introduction to the Australian Legal System (UWSCFS)

The pre-requisite unit 700216 - Introduction to the Australian Legal System (WSTC Prep) mentioned above only applies to students enrolled in courses 7059 Diploma in Business and Commerce Extended, 7063 Diploma in Business and Commerce, 7064 Bachelor of Business and Commerce (UWSC First Year Program), 7071 Bachelor of Business and Commerce Extended (UWSC First Year Program), 7098 Diploma in Business, 7099 Bachelor of Business (WSTC First Year Program), 7102 Diploma in Business Extended, 7103 Bachelor of Business Extended (WSTC First Year Program), 7110 Diploma in Building Design Management Extended or 7111 Bachelor of Building Design Management Extended (WSTC First Year Program).

Equivalent Units

200184 - Introduction to Business Law, 200909 - Enterprise Law, 700004 - Introduction to Business Law (UWSC)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in extended diplomas must pass 40 credit points from the preparatory units listed in the

course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College preparatory units listed in the course structure before progressing to the Year Two units.

.....

This is an introductory law unit designed to introduce the fundamentals of law in a commercial context. The unit introduces students to the basic principles of law and the legal system as well as examining some of the major areas of law that impact on commercial dealings. This unit examines the structure of the legal system, the way law is made, and the main areas of law relevant to starting and running a business including contracts, torts and consumer protection.

200912.1 Enterprise Leadership

Credit Points 10 **Level** 1

Equivalent Units

200571 - Management Dynamics, 700252 - Enterprise Leadership (WSTC)

Incompatible Units

200879 - Introduction to Business Studies

.....

Enterprise Leadership begins the development of the understanding of the role and function of business management and enterprise leadership concepts. Enterprise leaders need to balance a range of stakeholder perspectives in dynamic internal and external environments at local and global levels. Students are introduced to people, managerial and organisational processes designed to achieve enterprise leadership. Problem solving scenarios and experiential learning provide students with a foundation to develop personal and professional skills required to effectively manage their careers.

700252.1 Enterprise Leadership (WSTC)

Credit Points 10 **Level** 1

Prerequisite

Students enrolled in 7098 Diploma in Business, 7099 Bachelor of Business (WSTC First Year Program), 7102 Diploma in Business Extended or 7103 Bachelor of Business Extended (WSTC First Year Program) must have successfully completed 700248 Academic Skills for Business (WSTC Prep) before enrolling in this unit. Students enrolled in 7065 Diploma in Construction Management Extended or 7081 Bachelor of Construction Management Extended (WSTC First Year Program) must have successfully completed 700200 Academic Skills for Construction Management (WSTC Prep) before enrolling in this unit.

Equivalent Units

200571 - Management Dynamics, 200912 - Enterprise Leadership, 700003 - Management Dynamics (UWSC)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in extended diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level

unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College preparatory units listed in the course structure before progressing to the Year Two units.

.....

Enterprise Leadership begins the development of the understanding of the role and function of business management and enterprise leadership concepts. Enterprise leaders need to balance a range of stakeholder perspectives in dynamic internal and external environments at local and global levels. Students are introduced to people, managerial and organisational processes designed to achieve enterprise leadership. Problem solving scenarios and experiential learning allow students to develop personal and professional skills required to effectively manage their careers.

300821.1 Environment and Health

Credit Points 10 **Level** 1

Equivalent Units

300362 - Environment and Health, 300625 - Noise Assessment

.....

This unit introduces students to the holistic and socio-ecological nature of human health and its linkages with the socio-cultural and physical environment, focussing specifically on environmental noise as a significant risk to both physical and mental health. Students are challenged to identify and reflect on the underlying causes of traditional and contemporary environmental health issues and to explore the changing nature of environmental health, its professional practice, associated policy and the changing roles and responsibilities in government, business and industry. The unit introduces a range of health promotion and community education models for the design and evaluation of environmental health interventions.

301062.1 Environmental Building Design

Credit Points 10 **Level** 1

Equivalent Units

700255 - Environmental Building Design (WSTC)

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This unit explores the important parameters that are used to facilitate sustainable change in the built environment. Building design is a tool to minimise the use of scarce resources and reduce the impact on the natural Australian landscape. Improving the standard of liveability in urban and peri-urban communities is addressed through the development of holistic building design solutions.

700255.1 Environmental Building Design (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

301062 - Environmental Building Design

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must

pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

.....

This unit explores the important parameters that are used to facilitate sustainable change in the built environment. Building design is a tool to minimise the use of scarce resources and reduce the impact on the natural Australian landscape. Improving the standard of liveability in urban and peri-urban communities is addressed through the development of holistic building design solutions.

300737.4 Environmental Engineering

Credit Points 10 **Level** 2

Equivalent Units

85021 - Environmental Engineering

.....

This unit teaches the fundamental theory and methods required for a civil engineer to solve environmental issues they would face in their professional life.

300981.1 Environmental Forensic Investigations

Credit Points 10 **Level** 3

Prerequisite

300806.1 Forensic Science AND **300843.1** Forensic and Environmental Analysis

Equivalent Units

300377 - Forensic Analysis of Physical Evidence, 300881 - Forensic Biology

Special Requirements - Essential Equipment

Safety glasses and laboratory coat, laboratory book and enclosed footwear. Forensic science grip kit containing small equipment items (linear scales, compass, tape measure etc). This grip kit is used in other forensic science units.

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This unit examines the forensic processes required to conduct investigations into environmental crime and incidents. The unit extends the student's knowledge and understanding of forensic science concepts to environmental scenarios, including illegal dumping, spills and water pollution incidents. The unit will discuss how scenes are investigated, what methods and techniques are used to analyse environmental samples, and how the results are interpreted and presented in the NSW Land and Environment Court. Factors effecting the collection, analysis and interpretation of evidence, such as weathering, are also discussed, as these are crucial to understand the scenes and to correctly present evidence in court.

300857.1 Environmental Geochemistry

Credit Points 10 **Level** 3

Prerequisite

300808.1 Introductory Chemistry OR **300800.1** Essential Chemistry 1 AND **300803.1** Essential Chemistry 2

Equivalent Units

300614 - Environmental Geochemistry

Special Requirements - Essential Equipment

Safety glasses and laboratory coat, laboratory book, enclosed footwear

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In 2019 this unit replaced by 301212 Science of the Anthropocene. The unit deals with how the lithosphere, hydrosphere, biosphere and atmosphere are interconnected through global biogeochemical processes. Topics include the composition of ocean, ground and surface waters and their interactions with the atmosphere, rocks, soils, sediments and man-made pollutants; transfer of dissolved material between environments, and detection and control of toxic waste materials; environmental quality criteria, field sampling and modelling of selected environmental systems. These topics will be brought to life in a two-day field trip to Sunny Corner undertaken in the mid-session break.

102339.2 Environmental Humanities

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit provides an overview of the emerging interdisciplinary field of Environmental Humanities. It provides a space of dialogue for Humanities, Arts and Social Sciences (HASS) and Science, Technology, Engineering and Mathematics (STEM) students to work collaboratively in developing novel ways of thinking about the relationships between culture and nature. The Unit centres on emerging conceptual trends interrogating notions such as: Anthropocene, extinction, planetary boundaries, critical zones, socio-ecological change dynamics, as a way of engaging with fundamental questions of meaning, justice, value, responsibility and purpose in a time of rapid and escalating change. The unit also focuses on methodological issues and tackles questions of co-construction between HASS and STEM disciplines.

301035.1 Environmental Informatics

Credit Points 10 **Level** 3

Prerequisite

300700.5 Statistical Decision Making OR **200263.5** Biometry OR **200032.5** Statistics for Business

.....

Today, the environment is becoming more and more in the public eye. Methods of environmental monitoring and data analysis are an important source of information for science,

business and government regulation. This unit aims to give students a good introduction to environmental informatics and the analysis of spatio-temporal data.

300840.1 Environmental Planning and Climate Change

Credit Points 10 **Level** 2

Equivalent Units

300629 - Environmental Planning; 300783 - Environmental Planning & Climate Change

Incompatible Units

300704 - Healthy Built Environments

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This unit is an introduction to environmental planning in local and state government and in particular the role of planning in protecting the natural environment, enhancing population health and/or encouraging sustainable development practices. Students focus on goal-setting for environmental protection and then explore how planning policy can assist with achieving these goals. Current metropolitan planning and strategy is examined using the Metropolitan Strategy for Sydney as the primary case study. The unit scopes environmental planning policies introduced by state, local and Commonwealth governments to adapt to climate induced impacts on the environment and on community health and well being.

300841.1 Environmental Regulation and Policy

Credit Points 10 **Level** 2

Equivalent Units

300784 - Environmental Regulations and Policy; 300630 - Environmental Regulations

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This unit aims to provide students with a broad understanding of the current environmental regulations available to environment protection and planning authorities at the State and Local Government level to protect and manage the natural and built environments. This unit will also consider environmental policy introduced by the State and Commonwealth governments to manage land use activities so as to encourage sustainable development practices. It is a suitable unit for students entering government or industry in environmental management, health and planning roles. There is a particular focus on the use of legislation and preparation of policy to address environmental and health risks to the community.

300858.1 Environmental Risk Management

Credit Points 10 **Level** 3

Equivalent Units

300284 - Environment Risk Management; 300532 - Agriculture Risk

Unit Enrolment Restrictions

Successful completion of 120 credit points

Special Requirements - Essential Equipment

Enclosed footwear for field visit

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This unit examines the world of environmental risk management and will introduce students to environmental management systems including Environmental Impact Assessment and Environmental Auditing. The unit considers and examines the application of the precautionary principle in real world situations. Students will also be introduced to methods of quantitative risk assessment as applied to environmental and agricultural risks such as urban, peri-urban and rural growth; industrial and agricultural land use; contaminated land, and climate change.

300872.1 Epidemiology

Credit Points 10 **Level** 2

Equivalent Units

300626 - Epidemiology

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Epidemiology is an analytical science concerned with the distribution and determinants of health-related states in populations, aimed at the management of health problems. Epidemiology is not limited to controlling epidemics but assesses and manages physical, mental and social well-being in living, working and recreational environments. The unit introduces identification and understanding of risk factors for health and disease, and assists the student to develop an investigation protocol for assessing a specific health state within their own field of interest. This addresses career needs for a range of health studies while introducing the epidemiological analytical approach to risk assessment and research.

401174.1 Epidemiology of Non-Communicable Diseases

Credit Points 10 **Level** 7

Corequisite

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

Unit Enrolment Restrictions

Students must be enrolled in a post graduate course.

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This unit will document the fundamental concepts in epidemiology and control of non-communicable diseases (NCDs), common research methods used in NCD epidemiology, and unique applications of these methods in key NCD areas, including reproductive epidemiology, behavioural epidemiology, epidemiology of ageing and epidemiology of specific NCDs (including cardiovascular disease, diabetes, cancer, chronic respiratory diseases, musculoskeletal problems and mental health problems). The principal goals of this unit are to provide a broad overview of the field, and to develop the knowledge and skills needed to (i) critically evaluate published research in NCD epidemiology and (ii) design an epidemiological study to address an NCD topic.

401121.1 Ergonomics and Work Occupations

Credit Points 10 **Level** 3

Assumed Knowledge

Human anatomy, functional anatomy

Prerequisite

400908.2 People, Environment and Occupations AND

400881.3 Functional Anatomy

Incompatible Units

400926 - Ergonomics and Work Occupations

Unit Enrolment Restrictions

Students must be enrolled in 4711 Bachelor of Occupational Therapy or 4712 Bachelor of Occupational Therapy (Honours).

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The productivity role is a key aspect of adult life for most people. Occupational therapists play a major role in assisting clients who have had their productivity role affected in some way. This unit explores the importance of productivity for adults, in particular those engaged in paid employment. The focus of this unit is the rehabilitation of the injured worker within the context of the work health and safety legislation and the WorkCover case management system. In addition, this unit will explore vocational counselling and rehabilitation for clients with psychosocial, cognitive and physical disabilities.

300800.2 Essential Chemistry 1

Credit Points 10 **Level** 1

Assumed Knowledge

HSC Chemistry (2 unit) or HSC Multi-strand Science (3 or 4 unit) or equivalent. General Mathematics bands 5 and 6 or Mathematics band 4 or equivalent.

Equivalent Units

300224 - Chemistry 1, 300554 - Principles of Chemistry, 700121 Essential Chemistry 1

Special Requirements - Essential Equipment

Safety goggles, cloth laboratory coat, enclosed footwear.

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This unit provides an introduction to some of the essential knowledge, concepts and skills of chemistry, to serve the needs of students majoring in chemistry and those requiring a working knowledge of chemistry. Observable chemical facts and phenomena including structure, dynamics, and energetics, are explained in terms of current mathematical and visual models and further developed in Essential Chemistry 2. Evidence for chemical understanding is provided using IR spectroscopy, mass spectrometry, and computer molecular modelling. Laboratory skills relate theory to practice through the development of practical skills required to determine the concentration of an analyte using volumetric and spectrophotometric analysis.

700121.3 Essential Chemistry 1 (WSTC)

Credit Points 10 **Level** 1

Assumed Knowledge

HSC Chemistry (2 unit) or HSC Multi-strand Science (3 or 4 unit) or equivalent. General Mathematics bands 5 and 6 or Mathematics band 4 or equivalent. WSTC Prep chemistry.

Equivalent Units

300224 - Chemistry 1, 300800 - Essential Chemistry 1, 300554 - Principles of Chemistry, 700036 - Chemistry 1 (UWSC)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

Special Requirements - Essential Equipment

Approved safety glasses, cloth laboratory coat, enclosed footwear.

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This unit provides an introduction to some of the essential knowledge, concepts and skills of chemistry, to serve the needs of students majoring in chemistry and those requiring a working knowledge of chemistry. Observable chemical facts and phenomena including structure, dynamics, and energetics, are explained in terms of current mathematical and visual models and further developed in Essential Chemistry 2. Evidence for chemical understanding is provided using IR spectroscopy, mass spectrometry, and computer molecular modelling. Laboratory skills relate theory to practice through the development of practical skills required to determine the concentration of an analyte using volumetric and spectrophotometric analysis.

300803.1 Essential Chemistry 2

Credit Points 10 **Level** 1

Assumed Knowledge

An understanding and competence with basic chemical principles including SI units, chemical symbols, formulas and equations, nomenclature, stoichiometry, the mole concept, bonding, molecular shape and polarity, states and properties of matter, thermodynamics, equilibria, acids and bases, pH and electrochemistry. General Mathematics bands 5 and 6 or Mathematics band 4 or equivalent

Equivalent Units

300225 - Chemistry 2, 300550 - Medicinal Chemistry, 700122 - Essential Chemistry 2 (WSTC)

Incompatible Units

CH102A - Biological Chemistry 1.2D

Special Requirements - Essential Equipment

Safety goggles, cloth laboratory coat and enclosed footwear.

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This unit introduces an investigation of the reactivity of covalent molecules, in particular, of carbon-based compounds. Focusing on introductory chemical dynamics and thermodynamics, students will develop an in-depth understanding of the structure, nomenclature and reactivity of the principal organic functional groups, extending their basic principles of chemistry. They will also understand how molecules are synthesised and the ways they react being important in the function and role of chemistry in biological systems in our domestic and industrial worlds.

700122.2 Essential Chemistry 2 (WSTC)

Credit Points 10 **Level** 1

Assumed Knowledge

An understanding and competence with basic chemical principles including SI units, chemical symbols, formulas and equations, nomenclature, stoichiometry, the mole concept, bonding, molecular shape and polarity, states and properties of matter, thermodynamics, equilibria, acids and bases, pH and electrochemistry. General Mathematics bands 5 and 6 or Mathematics band 4 or equivalent

Equivalent Units

300225 - Chemistry 2, 300550 - Medicinal Chemistry, 700037 - Chemistry 2 (UWSC), 300803 - Essentials of Chemistry 2

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

Special Requirements - Essential Equipment

Approved safety glasses, lab coat, enclosed footwear.

.....

This unit introduces an investigation of the reactivity of covalent molecules, in particular, of carbon-based compounds. Focussing on introductory chemical dynamics and thermodynamics, students will develop an in-depth understanding of the structure, nomenclature and reactivity of the principal organic functional groups, extending their basic principles of chemistry. They will also understand how molecules are synthesised and the ways they react being important in the function and role of chemistry in biological systems in our domestic and industrial worlds.

200468.2 Estimating 1

Credit Points 10 **Level** 2

Equivalent Units

301207 - Building Estimates and Tendering

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In 2019 this unit will be replaced by 301207 - Building Estimates and Tendering. This unit provides students with an understanding of the various factors that affect the cost of buildings: for new construction, renovations and

demolition work. We introduce students to a range of costing techniques so that they have the skills necessary to prepare builder's estimates. By completing this unit, students will be confident to estimate the cost of labour, materials and subcontracting in order then to determine cost effective building solutions.

300726.2 Estimating 2

Credit Points 10 **Level** 4

Assumed Knowledge

Building construction including residential, light industrial and small commercial as covered in the subjects Building 1 and Building 2 and building measurement as covered in Building Quantities and Estimating as covered in Estimating 1.

Equivalent Units

BG412A - Estimating 2

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The aim of this unit is to give students a hands-on experience of the tendering process for construction professionals. Students undertake a team research project to determine the optimum parameters for a civil/building infrastructure estimation.

400249.2 Ethical and Legal Issues in Health Care

Credit Points 10 **Level** 3

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This unit enables students to explore and develop an understanding of the ethical and legal issues important within contemporary health care. Through the use of case studies students will analyse profound ethical and legal challenges facing current health care that are equally important to health professionals, patients/clients and society generally. Critical thinking about these issues will be encouraged. Students will also be encouraged to consider differing theoretical perspectives in their examination of ethical issues. Additionally, students studying to work within health care, including complementary medicine, will develop a comprehensive understanding of the requirements for ensuring that their practice conforms to legal doctrines and ethical standards.

101623.1 Ethical Futures

Credit Points 10 **Level** 3

Equivalent Units

101119 - Policy, Politics and Educational Futures

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This unit is designed to build the leadership capacity of educators through exploring, understanding and expressing the values and ethics embedded in policy, practice and educational change. The unit also addresses the importance of ethically informed advocacy and its role in educational futures and democratic processes.

301124.2 Ethical Hacking Principles and Practice

Credit Points 10 **Level** 3

Assumed Knowledge

Students should have a solid understanding of computer networking (especially with the TCP/IP protocol suite), possess basic programming skills in developing computer applications and web applications, and command basic knowledge and skills in databases and operating systems.

Prerequisite

300565.2 Computer Networking OR **300946.1** Computer Networking (Advanced) AND **300582.4** Technologies for Web Applications

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This unit teaches students ethical hacking principles and skills with the ultimate goal of defence. It covers practical skills in different stages of ethical hacking, including reconnaissance on public information, port and vulnerability scanning, exploitation of vulnerabilities, post exploitation, and writing a comprehensive report to document detected vulnerabilities and proposed solutions. Students will not only practice with major tools in ethical hacking, but also learn the principles of how these tools work and hence how to defend against them.

102250.1 Ethical Leadership

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Students must be enrolled in The Academy at Western Sydney; i.e. students enrolled in Advanced Degrees or other courses at the discretion of the Academy or the Dean.

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This unit aims to introduce students to major ethical theories, challenges and concepts in a cross disciplinary environment. While many students would have completed a disciplinary-based ethics subject, this unit will bring students from various schools to engage in critical ethical thinking and decision-making. In so doing, students will be required to identify, distinguish and begin to apply ethical frameworks to discuss and reflect on various cross disciplinary challenges from medical experiments to business decision-making, private/public freedoms to development and justice. As such, students will be required to apply ethical concepts to both their personal journeys as both citizen scholars and future professionals.

101466.2 Ethical Traditions in Islam

Credit Points 10 **Level** 3

Prerequisite

101462.2 Understanding Islam and Muslim Societies OR **101464.2** Great Texts of Islam: Qur'an and Hadith

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit introduces students to the rich heritage of ethical traditions in Islamic thought. Students will study and critically evaluate the key features and contributions of Muslim theologians, philosophers and Sufis, who attempted to deal with revelation and rationalistic discourse in exploring the meaning of ethical life for Muslims and discussing whether philosophy and religious wisdoms were equals and allies in the pursuit of happiness. The origin and development of these traditions will be introduced with an emphasis on the relevance and application of some ethical issues, such as free will, predestination, human responsibility, and bioethics, to contemporary Muslim societies.

102381.1 Ethics

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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Since the beginning of philosophy, the question of how to live has taken on an indefinite variety of forms, as befits the variability of its subject matter. This includes the Platonic and Aristotelian conception of the good life, the Kantian categorical imperative, and social ethics. In recent Continental philosophy, this has encompassed the ethics of responsibility, the attempt to investigate the ethics of alterity, interest in the 'care-of-the-self', and the ethics of truth.

101915.1 Ethics and Philosophy

Credit Points 10 **Level** 1

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This unit introduces students to ethical enquiry - the ways in which we explain what is right and wrong behaviour, perceive good and evil, and try to deal with the different values people hold. Philosophy has long traditions of debating ethical matters, and offers perspectives for trying to answer our ethical questions: this unit introduces the most important and established of those fundamental perspectives, and explains how they arose in their social and historical contexts. The philosophical material will be also be explored through practical examples and questions from contemporary life, in order to enable students to consider ethics today and the sorts of issues they might face.

400975.1 Ethics in Health Research

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Access to a computer.

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This unit equips students to explore ethical issues impacting on the conduct of research in the health setting. Students will critically explore ethical issues and their implications in health research, understand the process of gaining Human Research Ethics Approval for research,

gain practical experience of developing an ethically sound research plan and application for human ethics approval.

102007.1 Ethics in Historical Perspective

Credit Points 10 **Level** 3

Equivalent Units

100863 - Ethical Cultures

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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The unit provides an historical overview of the different types of ethical beliefs and practices that have been used in specific social settings from the classical world to the modern West. It looks at different types of spiritual and secular ethical behaviours, and the doctrines associated with each. It focuses upon the types of ethical argument and judgment-making specific to particular professions, occupations and social statuses over time. It concludes by surveying the different types of ethics taught to professionals today in the West, and on the differences between each, as well as the specific requirements of each. It will be of interest both to students with an interest in the history of ideas, and to students who want to learn more about ethics and moral decision-making.

102346.1 Ethnographies of Southeast Asia and the Pacific

Credit Points 10 **Level** 2

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This unit will introduce students to ethnographic field study through a close examination of the anthropology of two regions with which Australia is geographically and politically aligned; the Pacific Islands and South-east Asia. Drawing upon classic and contemporary ethnography the unit will provide opportunities for comparative and trans-historical studies of how cultures in these regions have been constructed and changed in relation to larger global dynamics. It will also provide an insight into the ways in which anthropological theory is developed in the context of attempts to explain and interpret cultural difference. Key topics of study, explored through case studies, will include the colonial experience, traditions and modernities, nations and nationalism, transnationalism, religion, social conflict, and material cultures. The unit will include ethnographic films.

100897.2 Everyday Life

Credit Points 10 **Level** 1

Equivalent Units

63234 - Introduction to Cultural Studies, 700135 - Everyday Life (WSTC)

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This unit introduces students to key themes and issues in the study of everyday life. It draws on different disciplinary areas - especially anthropology, sociology and cultural studies - and different theoretical and methodological perspectives to examine the ways cultural practices and

meanings are used to shape human identities and societies in everyday life. It will focus on rituals and routines in the different spaces of everyday life, and the ways these contribute to the production of local worlds and the key cultural categories that give meaning to these worlds. It will include a focus on how we research everyday life.

300935.2 Evidence and Crime Scene Management

Credit Points 10 **Level** 2

Equivalent Units

300746 - Evidence and Crime Scene Management

Incompatible Units

300873 - Crime Scene Investigation

Unit Enrolment Restrictions

Successful completion of 40 credit points. Students enrolled in 3589 Bachelor of Science (Forensic Science) are not eligible to take this unit as an elective.

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Evidence and Crime Scene Management is a unit designed to provide students with an understanding and knowledge of critical principles associated with the management of evidence and sites considered as crime scenes. The unit is particularly designed for students wishing to enter professional domains involving; policing, nursing, animal welfare, workplace investigators, health inspectors, WHS officers, fire investigation, council and park rangers, social welfare, environmental protection, fraud and insurance investigation and others where the collection of evidence is a component of professional practice within the discipline. The unit covers topics such as; recognition of various evidence, the recording and documentation of evidence, crime scene or site photography, managing scenes, maintaining evidence integrity, sexual assault evidence, the reporting and presentation of evidence in court and others.

400865.3 Evidence-Based Practice

Credit Points 10 **Level** 3

Assumed Knowledge

Knowledge and skills of Foundations of Research & Evidence-based Practice and Research Methods (Qualitative and Quantitative).

Prerequisite

400864.3 Research Methods (Quantitative and Qualitative)

Students need to have done 400864 Research Methods PLUS ONE clinical unit from their specific program: Students enrolled in Course Code 4661 or 4708 must have completed 400933 - Podiatry Pre-Clinical. Students enrolled in Course Code 4663 or 4711 must have completed 400909 - Occupational Therapy Practice 2. Students enrolled in Course Code 4662 or 4706 must have completed 400985 - Physiotherapy Clinical Education A.

Equivalent Units

400154 - Integrating Evidence into Practice

Unit Enrolment Restrictions

Students must be enrolled in Course Codes 4660,4661, 4662, 4663, 4706, 4708, 4710, 4711.

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In this unit, students incorporate previous research and biostatistics knowledge to develop new skills for using evidence to inform all aspects of their professional practice. Evidence-based practice uses an enquiry led approach to manage expanding and uncertain knowledge by formulating answerable questions, effectively searching literature, critically appraising evidence validity and results, and to assess its significance in clinical practice and healthcare decision-making. Students will incorporate evidence in communication and shared decision making processes for patient scenarios relevant to their program.

400944.2 Evidence-Based Practice (Advanced)

Credit Points 10 **Level** 5

Assumed Knowledge

Knowledge and skills of Foundations of Research & Evidence-based Practice 400863 and Research Methods (Qualitative and Quantitative) 400864 AND at least one clinical unit of the student's program.

Prerequisite

400933.2 Podiatry Pre-Clinical OR **400909.3** Occupational Therapy Practice 2 OR **400985.1** Clinical Education A AND **400985.3** Clinical Education A (Acute Care)

Incompatible Units

400865 - Evidence-Based Practice

Unit Enrolment Restrictions

Students must be eligible to enrol in honours in the nominated courses. This unit is only relevant to honours students in clinical health sciences and is specifically tailored to accommodate the course and progression requirements of such students. It is not appropriate as a general elective.

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In this unit, students incorporate previous research and biostatistics knowledge to develop new skills for using evidence to inform all aspects of their professional and research practice. Evidence-based practice uses an enquiry led approach to manage expanding and uncertain knowledge by formulating answerable questions, effectively searching literature and critically appraising the validity of evidence to assess its significance in clinical practice and healthcare decision-making. Students will embark on research training through studying the theory and application of research methods to honours research in their chosen field and practising the skills to analyse evidence in the health sciences.

400883.4 Exercise Bioenergetics

Credit Points 10 **Level** 2

Assumed Knowledge

The knowledge and skills covered in the pre-requisite units. In addition students are expected to have a mathematical ability equal to a passing level in the BOSTES (NSW) numeracy test. See <http://www.boardofstudies.nsw.edu.au/rosa/literacy-and-numeracy-tests.html> . Students whose mathematical ability is not at this level or who have not used such mathematics recently are encouraged to seek

assistance early through the Mathematics Educational resource Hub (MESH) <http://www.westernsydney.edu.au/mesh/mesh>

Prerequisite

400868.3 Human Anatomy and Physiology 1 AND **400869.3** Human Anatomy and Physiology 2 AND **400880.2** Fundamentals of Exercise Science AND **400863.2** Foundations of Research and Evidence-Based Practice

Equivalent Units

400325 - Bioenergetics of Exercise

Unit Enrolment Restrictions

Students must be enrolled in 4658 Bachelor of Health Science (Sport and Exercise Science).

Special Requirements - Essential Equipment

Laboratory coat, Protective glasses, Calculator, access to an iPad, tablet or laptop for in class use.

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This unit investigates exercise metabolism and related genomics and proteomics in an integrated fashion. Covering: energy pathways; metabolic control; metabolism, oxygen consumption and respiratory quotient relationships; metabolic responses to acute and chronic exercise; pathway contributions to exercise; metabolic limitations to exercise; metabolic contributions to fatigue; metabolic acidosis, cellular and systemic implications of metabolic thresholds, conditions that can alter cellular metabolism. Whilst skeletal muscle metabolism is the primary focus, liver and adipose tissue metabolism are also considered as are anabolic pathways. Students will be exposed to basic biochemical assays of interest to the exercise physiologist.

401145.1 Exercise for Health and Disease Prevention

Credit Points 10 **Level** 3

Assumed Knowledge

Basic understanding of physiological responses to acute and chronic exercise and an understanding of exercise prescription principles

Prerequisite

401142.1 Exercise Physiology AND **401143.2** Exercise Prescription I

Equivalent Units

400328 - Exercise Prescription For Special Populations, 400887 - Clinical Exercise Physiology 1

Unit Enrolment Restrictions

Students must be enrolled in 4658 - Bachelor of Health Science (Sport and Exercise Science).

.....

This unit emphasises teaching students to design safe and effective exercise programs for optimal health, well-being, and the prevention of major chronic diseases. Holistic recovery strategies, including sleep, nutrition and stress-reduction are also explored. Students will learn about the aetiology of major chronic diseases, including cancers, cardiovascular disease, metabolic diseases, neurological diseases and mental illnesses, and how these conditions

can be targeted with exercise. Students will also develop the practical skills necessary for screening and testing populations at-risk and with chronic diseases.

401141.3 Exercise Nutrition

Credit Points 10 **Level** 2

Prerequisite

400868.3 Human Anatomy and Physiology 1 AND
400880.2 Fundamentals of Exercise Science

Equivalent Units

400884 - Exercise Nutrition, Body Composition and Weight Control

Unit Enrolment Restrictions

Students must be enrolled in 4658 Bachelor of Health Science (Sport and Exercise Science).

.....

This unit provides students with an understanding of the interdependent areas of nutrition within the context of sport, physical activity, and exercise. Nutritional needs and recommendations for all levels and types of physical activity are covered along with the links between nutrition and health, sport performance, body composition and control of body weight. Students will develop skills in nutritional analysis and program development, measurement of energy expenditure and body composition assessment. Students will use these skills and knowledge in the individualisation of advice on exercise nutrition for health and sport performance.

401142.1 Exercise Physiology

Credit Points 10 **Level** 2

Prerequisite

400868.2 Human Anatomy and Physiology 1 AND
400869.3 Human Anatomy and Physiology 2 AND
400880.2 Fundamentals of Exercise Science AND
400881.3 Functional Anatomy

Equivalent Units

400885 - Sport and Exercise Physiology

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This unit covers the essential physiology that helps us understand how we control our exercise behaviour. In lectures there is a focus on physiological control, with emphasis on neuromuscular, cardiovascular, respiratory and thermoregulatory responses during exercise, as well as adaptation of these responses in response to ageing, disease and exercise training. In laboratory classes, there is a focus on the acquisition and interpretation of physiological responses during exercise.

401149.1 Exercise Physiology Across the Lifespan

Credit Points 10 **Level** 3

Prerequisite

401142.1 Exercise Physiology

Unit Enrolment Restrictions

Students must be enrolled in 4658 Bachelor of Health Science (Sport and Exercise Science).

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This unit is focused on physiological changes across the human lifespan and their effects on exercise tolerance. There is a particular focus on children and the elderly, and the physiological emphasis is on the control of neuromuscular, cardiovascular, respiratory, thermoregulatory and metabolic function. Exercise and physiological adaptation to exercise training at different ages will also be covered.

401143.2 Exercise Prescription I

Credit Points 10 **Level** 2

Prerequisite

401140.1 Biomechanics AND **401150.1** Exercise Testing and Measurement

Equivalent Units

400326 - Exercise Prescription for General Populations

Unit Enrolment Restrictions

Students must be enrolled in 4658 - Bachelor of Health Science (Sport and Exercise Science).

.....

This unit is designed to give students an understanding of and experience in exercise prescription and fitness program construction for the general population (apparently healthy) across all ages and in both genders. It will focus on the development of general health-related exercise programs, which improve aerobic and anaerobic fitness, muscular strength and endurance, flexibility and body composition. Students will design, implement and evaluate a self-prescribed exercise program, and instruct training sessions for fellow students.

401144.1 Exercise Prescription II

Credit Points 10 **Level** 3

Prerequisite

401143.1 Exercise Prescription I

Equivalent Units

400327 - Exercise in Musculoskeletal Injury Rehabilitation,
400902 - Exercise in Musculo-Skeletal Rehabilitation

Unit Enrolment Restrictions

Students must be enrolled in 4658 - Bachelor of Health Science (Exercise and Sport Science).

.....

This unit focuses on the role of exercise in the functional rehabilitation of musculoskeletal injuries including work and sporting injuries. It covers injury and re-injury prevention strategies; mechanisms of injury; patho-physiology of injury and repair process; design and evaluation of rehabilitation exercise programs; how the exercise program functions in concert with other methods of injury treatment and management; important pharmacological, communication, psychosocial and cultural considerations; the role of the exercise physiologist in the rehabilitation team; the effects

of nervous system disorders and injury on skeletal muscle control, injury and rehabilitation are also considered.

400997.4 Exercise Rehabilitation

Credit Points 10 **Level** 3

Assumed Knowledge

Knowledge of Human anatomy, human physiology, pathophysiology.

Prerequisite

400138.3 Pathophysiology 1 AND **400982.4** Core Competencies in Physiotherapy Practice

Corequisite

400986.1 Neurological Physiotherapy AND **401199.1** Musculoskeletal Physiotherapy A AND **401197.1** Clinical Education (General)

Unit Enrolment Restrictions

Students must be enrolled in 4662 Bachelor of Health Science/Master of Physiotherapy, 4706 Bachelor of Physiotherapy, 4707 Bachelor of Physiotherapy (Honours) or 4733 Bachelor of Physiotherapy (Honours). Students in this program are required to participate fully in practical classes. This involves disrobing to shorts and singlet or swim-suit equivalent in mixed gender classes. Students will practice hands-on physiotherapy examination and treatment techniques on both genders, and will personally experience these techniques which will be performed on them by other students and relevant academic staff.

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Exercise Rehabilitation focuses on the assessment and management of patients using exercise training. All patient groups are covered but there is an emphasis on cardiorespiratory disorders. Professional competencies addressed in this unit include an understanding of the normal physiological responses to exercise, the implications of pathology and exercise. The unit also includes further development and practice of skills in the patient physical examination, and clinical reasoning such that hypothesized problem lists and goals for patients are developed. The prescription of exercise-based interventions with other physiotherapy modalities is also covered. This unit also facilitates the attainment of professional competencies including effective communication skills, ethical reasoning, professional behaviour, and an appreciation of interprofessional care.

401150.2 Exercise Testing and Measurement

Credit Points 10 **Level** 2

Corequisite

400880.2 Fundamentals of Exercise Science

Unit Enrolment Restrictions

Students must be enrolled in 4658 - Bachelor of Health Science (Sport and Exercise Science).

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This unit provides students with an understanding of the safety, ethical, logistical and theoretical considerations for administering tests and conducting measurements within the Exercise Science scope of practice. Students will develop skills in data analysis, data visualisation and

generating reports to hypothetical clients within the Sport & Exercise sector. The unit introduces numerous physical and physiological tests, together with performance analysis and monitoring techniques, with a particular focus on the measurement accuracy of data collected. Students will evaluate and interpret data from tests to inform further practice in exercise prescription and exercise recommendations.

102556.1 Expanded Music Performance

Credit Points 10 **Level** 3

Assumed Knowledge

It is assumed that students can perform at Level 3 standard.

Prerequisite

101539.3 The Composer-Performer OR **101521.2** Collaboration and Live Music Performance OR **101537.2** Sound Technologies and Machine Musicianship OR **102555.1** Music Group Performance OR **102561.1** Digital Musicianship

Equivalent Units

101535 - Sound and Performance: Expanded Practice

Incompatible Units

101448 - Music Performance 5: Expanded Practice,
101144 - Digital Musics 5: New Performance and Practice

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This unit offers students the opportunity to plan, prepare and perform a substantial artistically and technically challenging performance project as featured artist. Students are required to expand their performance practice by utilising electroacoustic and/or multimedia and/or theatrical elements. The repertoire will be self-directed and devised in consultation with the lecturer. Students will be exposed to current digital performance and interface technologies for software and hardware instruments and real time digital audio processing. The unit explores various notions of theatricality and extended music performance. Through a written task, students will consider their own work in the context of a survey of works in the field.

102206.1 Experience-based Outdoor Education

Credit Points 10 **Level** 1

Equivalent Units

400808 - Outdoor Recreation

Special Requirements - Essential Equipment

Students will be required to provide their own hiking equipment. This would include appropriate hiking shoes and clothing, water bottle and first aid kit. If students don't own this equipment they can borrow or hire it.

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In this unit students connect with the natural world through outdoor adventure activities. Students learn about themselves, others, and the environment through a series of experiential activities. The unit focuses on self-reliance, resiliency, interdependence, managing personal risks, and the value of life-long outdoor recreation for enjoyment, health and well-being. This unit will involve two full-day practical field trips in the outdoors as well as lectures and

tutorials. The practical field trips are physically demanding whilst also extending students mentally and socially. Given the nature of the bushwalking field trips, participants require a moderate level of personal fitness.

101874.3 Experiential Learning in Communities (ELC)

Credit Points 10 **Level** 2

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Experiential Learning in Communities (ELC) is a unit in which students come to understand the value of service learning within the university student community as part of the Equity Buddies Support Network. As this unit explores a service learning approach to teaching and learning it includes a participation component which comprises a combination of lectures, tutorials, debriefing group meetings and peer mentoring partnerships. Enrolment in ELC is open to first, second and third year students. Students will develop skills in pedagogy and practice within the unit through supporting fellow students' learning experiences and transition to university. The unit develops students' understandings about communities of practice, peer learning, interpersonal and intercultural communication, meta-cognition, reflection and the reflection process, and academic literacy.

401266.1 Experimental Design and Analysis PG A

Credit Points 20 **Level** 7

Corequisite

800166.1 Research Design 1: Theories of Enquiry OR
800169.1 Research Design 2: Practices of Research OR
800167.1 Research Literacies

Incompatible Units

401162 - Experimental Design and Analysis PG

Special Requirements - Essential Equipment

Students must meet discipline specific requirements, eg. personal protective clothing.

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Experimental Design and Analysis can be taken independently or in combination in Autumn (Experimental Design and Analysis PG A) and/or Spring (Experimental Design and Analysis PG B) semesters. Working closely with their assigned supervisor(s), students in the health, medical, biomedical and natural sciences will enhance their expertise in experimental methodologies and knowledge of advanced discipline-specific concepts in the first year of the Masters of Research. Completion of one these two units will allow students to demonstrate theoretical and practical skills directly relevant to their proposed research project. Completion of both units will allow students to build upon initial results, and to gain experience in additional methodologies and experimental techniques. These units will also complement the Master of Research core units Research Design 1 and 2, providing a foundation for students to formulate their research question and thesis proposal.

401267.1 Experimental Design and Analysis PG B

Credit Points 20 **Level** 7

Corequisite

800166.1 Research Design 1: Theories of Enquiry OR
800169.1 Research Design 2: Practices of Research OR
800167.1 Research Literacies

Incompatible Units

401162 - Experimental Design and Analysis PG

Special Requirements - Essential Equipment

Students must meet discipline specific requirements, eg. personal protective clothing.

.....

Experimental Design and Analysis can be taken independently or in combination in Autumn (Experimental Design and Analysis PG A) and/or Spring (Experimental Design and Analysis PG B) semesters. Working closely with their assigned supervisor(s), students in the health, medical, biomedical and natural sciences will enhance their expertise in experimental methodologies and knowledge of advanced discipline-specific concepts in the first year of the Masters of Research. Completion of one these two units will allow students to demonstrate theoretical and practical skills directly relevant to their proposed research project. Completion of both units will allow students to build upon initial results, and to gain experience in additional methodologies and experimental techniques. These units will also complement the Master of Research core units Research Design 1 and 2, providing a foundation for students to formulate their research question and thesis proposal.

300879.1 Experimental Foods

Credit Points 10 **Level** 3

Prerequisite

300805.1 Food Science 1 AND **300842.1** Food Science 2

Equivalent Units

300638 - Experimental Foods

Special Requirements - Essential Equipment

Students are required to have Personal Protection Equipment e.g. apron and closed-in shoes.

.....

This unit aims to build on students' knowledge of food preparation gained in Food Science 1 and 2, the focus of this unit includes; food science and principles, the interaction of ingredients and the added effects of physical procedures on the end product. Students develop advanced scientific methodologies to give reproducibility. This is a recommended unit for those intending to advance in the areas of recipe development and new product development.

100584.2 Experimental Writing and Electronic Publication

Credit Points 10 **Level** 2

Experimental Writing and Electronic Publication is a practical and experiential exploration of modernist writing practices. Students will be introduced to a range of innovative writing techniques designed to stimulate creative thinking and assist in the development of a regular writing practice. Areas of study include: exploration of pre-writing processes; experimental writing genres; power of language; evaluative process; and the development of individual and collaborative techniques for planning and executing writing projects. A primary component of this unit includes working on writing exercises both at home and in class. These exercises will be used to develop the end-of-unit major project.

100254.3 Exploring Local History

Credit Points 10 **Level** 3

Equivalent Units

63153 - Exploring the History of Western Sydney

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

From 2017 this unit replaced by 102516 - Australian History Around Us. Understanding local history is an integral part of establishing personal and community identities. Local studies are used as the foundation for many socio-economic studies across various disciplines as well as in school curricula. The University of Western Sydney is part of a region rich in history, little of which has been researched or published. Local history techniques involve understanding a variety of physical and documentary sources. Students learn the history of the Sydney region by assembling data from original historical sources, based at the Archives in Kingswood and Villawood and from on-line data repositories. There are opportunities for site visits to historical and archaeological sites and local museums.

200589.2 Export Strategy and Applications

Credit Points 10 **Level** 3

Assumed Knowledge

Principles of international business including the dynamics of foreign business markets, international marketing and research methods, comparative global economics, international corporate finance and strategy. The basics of economics, accounting, law, statistics and business communications are also assumed.

Prerequisite

200591.2 Introduction to International Business

Australia's export opportunities have yet to be fully realised. In other words, of all the firms that could be considered as having an export potential, only a very small percentage of them actually do (export). This unit teaches students about

the management perspectives and the operational requirements needed for a successful export initiative. Specific topics include strategic intent, capability assessment, information gathering, export entry models evaluation, market mix factors, risk management, export finance, logistics and sales management. The overriding aim of the unit is to enable students to be confident in working in an international business environment and to seek out and undertake management and operational tasks necessary to the global development of the firm.

102143.1 Families and Intimate Life

Credit Points 10 **Level** 2

Equivalent Units

400510 - Sociology of the Family, 101609 - Comparative Studies of Families and Kinship

Unit Enrolment Restrictions

Successful completion of 40 credit points

This unit will critically examine sociological perspectives on the family and intimate life, building on the approaches and theories introduced in the first year of Sociology studies. The familiarity of family and intimate relationships will be thrown into question and students will be asked to examine their beliefs, decode the meaning, and discard the myths of the 'naturalness' of these spheres of social life. The family and intimate relationships will be viewed as part of the wider social structure, their constitutions shaped by history, economic factors, and cultural systems. Each week we will focus on aspects of the family and intimate life and examine how these spheres are undergoing change but also how they are experienced differently depending on an individual's social location or background in order to demonstrate the historical and cultural specificity of the nuclear family and its role in the creation of social stratification and social difference.

300804.1 Feeding the Planet

Credit Points 10 **Level** 1

Equivalent Units

300502 - Primary Production

Special Requirements - Essential Equipment

Closed Footwear, Lab coat, Secateurs

Global population is forecast to reach 9 billion by 2050. To meet future demand for food we will need to supply 70% more food than we currently produce. At the same time, the resources that underpin food production; land, water, energy and people; are either in decline or becoming more expensive. One of the greatest challenges facing humanity over the next few decades is how to feed 9 billion without causing unsustainable damage to our natural resource base? In 'Feeding the Planet' we will explore this challenge from a range of perspectives. This unit overviews global population, food requirements and food security issues of feeding the world's growing population. It involves the understanding, knowledge and practical hands-on experience of primary production industries and related enterprises. Ethical issues relating to primary production, food and diets and the many constraints for food production

and sustainable intensification of production with limited resources will be investigated.

300913.1 Field Project 1

Credit Points 10 **Level** 3

Prerequisite

300662.1 Research Methods OR **300932.1** Natural Science Research Methods

Equivalent Units

300659 - Field Project 1

Unit Enrolment Restrictions

Students enrolling in the external offering of this unit must be externally enrolled in 3672 Bachelor of Natural Science (Environment and Health). Other students enrolling externally will need Unit Coordinator approval.

.....

Unit 300913 (Field Project 1) and the associated unit 300914 (Field Project 2) are designed as 'capstone' units of study for the Bachelor of Natural Science degree. They draw together the skills acquired in previous years of the degree course and apply them in the context of a year-long research project exploring a real world problem on behalf of an industry, government or community agency client. Over the year, the student will develop skills in scoping, planning, implementing, reporting on the research project; reflecting on what has been learned in the context of their personal and professional development and how this can be used in future career planning. In this Field Project 1 unit the focus is on developing skills in designing an appropriate research project in collaboration with the industry client, contextualising the problem and appropriate research methods in the academic literature, developing and implementing a pilot study to test the proposed research methods, and planning ahead for collecting, organising and analysing field data and reporting the results to the client in the second unit - Field Project 2.

300914.1 Field Project 2

Credit Points 10 **Level** 3

Prerequisite

300913.1 Field Project 1

Equivalent Units

300660 - Field Project 2

Unit Enrolment Restrictions

Students enrolling in the external offering of this unit must be externally enrolled in Bachelor of Natural Science (Environment and Health). All other students enrolling externally will need Unit Coordinator approval. Students who completed Field Project 1 Unit in a previous year (i.e. are not continuing directly into this unit) will need to demonstrate that they have the data from this earlier Unit that can be used to produce an analysis and a report for their original client.

.....

This is the second of two units (Field Project 1 & Field Project 2) that are designed as 'capstone' units of study for the Bachelor of Natural Science degree. They draw together the skills acquired in previous years of the degree

course and apply them in the context of a year-long research project exploring a real world problem on behalf of a client in industry, government or community agency. In the first unit the student will have developed skills in scoping, planning, and piloting methods for a research project. In this second Field Project unit the student will collect and organise a significant body of relevant field data, analyse this and present the conclusions and recommendations in the form of a report to the client that provides the student's answers to the client's initial problems. The student then undertakes a critical review of the whole process to identify lessons for both personal and professional development and future career planning.

800213.1 Fieldwork in Complex and Hostile Places

Credit Points 20 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate or HDR course code.

Special Requirements - Essential Equipment

Adequate clothing to work outdoors in the simulated learning environment.

.....

Working overseas is demanding and poses unique research challenges as well as risks to personal security and safety. This 7-day intensive subject teaches a range of applied research approaches, field skills, techniques and technologies to prepare students for operating safely overseas. The immersive scenario-based role-play learning is delivered at an off-site location. Drawing on United Nations accredited curriculum, the subject equips students with an appreciation for the major methodological, ethical, legal, logistical and personal challenges they are likely to confront when working 'in the field.' The unit is of special relevance to students seeking employment in Government and NGO sectors.

100866.3 Film and Drama

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

.....

This unit offers a survey of one or more of the following: drama, drama on film and film drama. It will examine key concepts in cinema theory, dramatic form and film production. Comparison may be made between theatre texts and film adaptations related to the work of specific dramatists; or drama texts may be considered in themselves (often with the screening of filmed versions of these dramas). Alternatively, film itself will be considered as a distinct dramatic form whose contours will be traced in relation to the work of important directors. Viewing films will form an integral part of this unit and students will be expected to attend screenings of films as well as a lecture and tutorial.

200111.3 Financial Accounting Applications

Credit Points 10 **Level** 1

Prerequisite

[200101.4](#) Accounting Information for Managers OR
[200972.1](#) Accounting in Context

Equivalent Units

AC103A - Introductory Financial Accounting, 700029 -
Financial Accounting Applications (UWSC)

.....

This unit gives students the practical skills necessary to analyse the accounting transactions of an entity, and then be able to measure and record these transactions in a systematic manner for the preparation of simple financial statements.

200048.2 Financial Institutions and Markets

Credit Points 10 **Level** 1

Equivalent Units

700250 - Financial Institutions and Markets (WSTC)

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The investment, financing and risk management decisions made by individuals, firms and governments are implemented by creating and trading financial instruments in financial markets, often with the involvement of a variety of institutions. Using the Australian financial system as an illustration, Financial Institutions and Markets introduces students to the theory and functions of financial institutions and markets. Students develop an understanding of the role and functions of bank and non-bank financial institutions and of markets in equities, debt, foreign exchange and derivatives.

51054.3 Financial Modelling

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course.

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This unit is essential in preparing students for applied financial analysis and modelling applications used extensively in a number of postgraduate finance units. It familiarises students with the strengths and limitations of contemporary quantitative modelling techniques using multivariate statistical procedures and optimisation approaches. Students are also familiarised with relevant software.

101315.3 Financing Cities in the Global Economy

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Financing infrastructure to keep cities running and growing at a time when governments face new financial constraints is a key challenge for urban managers. In order to be able to contribute to the debate about financing cities it is important for future urban managers to develop a basic financial literacy, understand and draw on the options for financing essential urban functions in Australia cities and elsewhere, and assess the tensions involved in public and private financing pathways. This unit addresses these needs through both theoretical and practical approaches to the city as a set of flows within a wider urban network of relations. Students develop their understanding via interactive lectures, case studies, fieldwork exercises and assignments.

200910.1 Financing Enterprises

Credit Points 10 **Level** 1

Equivalent Units

700253 - Financing Enterprises (WSTC)

Special Requirements - Essential Equipment

Students will need to have a basic scientific calculator to be able to complete this unit.

.....

Financing an enterprise plays an important role in ensuring its survival. Financing Enterprises focuses on the different types of enterprises available to start a business, financial statements issued by enterprises, key sources of finance available to small and large businesses, and how the surrounding financial and macroeconomic environments affect an enterprises performance. Participants in the unit will learn how to identify, analyse and interpret financial information using industry related database. The unit utilises problem solving and case studies so participants can understand the real world significance of finance. Successful completion of the unit equips participants with key concepts involved in financing enterprises.

401308.1 Fluency and Voice

Credit Points 10 **Level** 3

Prerequisite

[401301.1](#) Child Speech and Language Development AND
[401302.1](#) Adult Speech and Language

Unit Enrolment Restrictions

Students must be enrolled in the 4763 Bachelor of Speech Pathology or 4764 Bachelor of Speech Pathology (Honours).

.....

This unit addresses the management of fluency disorders in children, adolescents and adults. It covers theoretical perspectives on stuttering and other fluency disorders, assessment and intervention principles, counselling and facilitating therapy, management of fluency disorders and indicators of successful change.

300762.2 Fluid Mechanics

Credit Points 10 **Level** 2

Assumed Knowledge

200238 - Mathematics for Engineers 2

Prerequisite

200237.3 Mathematics for Engineers 1 AND **300963.1** Engineering Physics OR **300464.2** Physics and Materials

Equivalent Units

300740 - Water Engineering, 700111 - Fluid Mechanics (WSTC Assoc Deg)

.....
This unit provides a basic understanding of fluid mechanics principles. While the main focus will remain on incompressible fluids, effects of compressible fluids will also be discussed. The theories learned in classes will be reinforced in laboratory sessions.

700111.2 Fluid Mechanics (WSTC AssocD)

Credit Points 10 **Level** 2

Assumed Knowledge

700102 - Mathematics for Engineers 2

Prerequisite

700101.1 Mathematics for Engineers 1 (UWSC Assoc Deg) AND **700153.1** Engineering Physics (UWSC Assoc Deg)

Equivalent Units

300762 - Fluid Mechanics

Unit Enrolment Restrictions

Students must be enrolled in 7022 Associate Degree in Engineering

.....
The unit provides a basic understanding of fluid mechanics principles. While the main focus will remain on incompressible fluids, effects of compressible fluids will also be discussed. The theories learned in classes will be reinforced in laboratory sessions.

700232.3 Focus on Biology (WSTC Prep)

Credit Points 10 **Level** Z

Equivalent Units

900104 - Focus on Biology (WSTC), 900022 - Biology

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

Special Requirements - Essential Equipment

Students must have laboratory coats and safety goggles.

.....
Biology is the study of integrated living systems, from the level of molecular systems that constitute cells to the interactions that occur within and between organisms that together make up the biosphere. This unit will equip students to undertake tertiary level biological units that

emphasise both the unity (cell biology) and diversity (evolution) of living organisms. Students will learn about the basic molecular biological underpinnings of cellular structure and function within an integrated framework that proceeds through major themes of bioenergetics, gas exchange and transport systems within multicellular organisms, inheritance and evolution. Students will develop a fundamental body of essential biological concepts, as well as build skills in collecting and analysing information, and writing coherent explanations.

200992.1 Food and Beverage Management

Credit Points 10 **Level** 2

Equivalent Units

200710 - Managing the Food and Beverage Experience
200145 - Food Service Systems

.....
A key component of the hospitality industry is the provision of food and beverages. Food and Beverage Management prepares the student to run his or her own business, or to take on management level positions in this field. It focuses on the managerial knowledge and skills required to supervise all components of a foodservice system: marketing, menu planning, production, service, financial controls and quality assurance. Those who wish to work in management positions within the foodservice industry, including in hospitals, restaurants, hotels, and other establishments will benefit from this unit.

300915.1 Food Product Development

Credit Points 10 **Level** 3

Assumed Knowledge

Students enrolled in this unit must have previous knowledge of food science principles, food processing, human nutrition, food analysis, sensory evaluation and food quality control systems, plus experience in food formulation and ingredient manipulation coupled with an understanding of nutritional requirements.

Prerequisite

300922.1 Quality Assurance and Food Analysis AND **300879.1** Experimental Foods

Equivalent Units

300637 - Food Product Development Practicum, FS304A - Food Product Development Practicum

Unit Enrolment Restrictions

Successful completion of 160 credit points

Special Requirements - Essential Equipment

Students required to have Personal Protection Equipment e. g. Laboratory coat, safety goggles, closed-in shoes

.....
This unit is a final year capstone unit where students work in a team environment to apply the knowledge previously gained through their studies in nutrition and food science to develop a novel food product. The entire process of product development will be covered, including: idea generation; collating market, technical and consumer information; consumer surveying to establish the need/desire for a new product; product innovation development; quality testing

and packaging. Students will develop specialised knowledge of the total product development system, including the ability to design, develop formulations and evaluation of sensory properties. Final product assessment includes nutritional composition, microbiological analysis, sensory evaluation and labelling compliant with regulations. The project is run in the simulated industry environment; team work among the members plays a key part of the unit.

300859.1 Food Safety

Credit Points 10 **Level** 3

Prerequisite

300844.1 General Microbiology OR **300833.1** Microbiology 1

Equivalent Units

300639 - Food Safety

Unit Enrolment Restrictions

Successful completion of 120 credit points

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Food safety is rapidly evolving with the emergence of new foodborne diseases, changing disease patterns, evolving approaches to risk analysis and an emerging requirement that food producers, processors, handlers and consumers take shared responsibility for food safety. This unit aims to equip students with the necessary skills to identify, evaluate and control foodborne hazards in order to protect the safety and quality of the food supply and reduce associated risks to human health. Content includes the key elements of food safety and regulation, food contamination, food spoilage agents, foodborne hazards, principles of good hygienic practice and preservation in food production, preparation and distribution.

300805.1 Food Science 1

Credit Points 10 **Level** 1

Equivalent Units

300498 - Food Science 1, FS108A - Food Science & Technology Practicum 1.1

Special Requirements - Essential Equipment

Enclosed footwear, laboratory coats and safety goggles.

.....

Food provides sustenance to life, nutrition for good health, enjoyment and cultural identity. Students will gain an awareness of the history and cultural significance of food and its traditions in Australia and around the world. This unit introduces the basic principles for understanding the science behind food; its composition, chemical, physical and functional characteristics. Fruits and vegetables, cereal, meat and dairy products will be covered, how they are processed and impacts on food quality and nutrition. Current issues will be discussed, such as world food supply, food-borne disease, diet and health, and new trends in food.

700265.1 Food Science 1 (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

300805 - Food Science 1; 300498 - Food Science 1; FS108A - Food Science and Technology Practicum 1.1

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University The College. Students enrolled in the Extended courses (7086, 7087) must have passed 40 credit points in order to enrol in this unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

Special Requirements - Essential Equipment

Students require a laboratory coat, safety goggles and enclosed footwear.

.....

Food provides sustenance to life, nutrition for good health, enjoyment and cultural identity. Students will gain an awareness of the history and cultural significance of food and its traditions in Australia and around the world. This unit introduces the basic principles for understanding the science behind food; its composition, chemical, physical and functional characteristics. Fruits and vegetables, cereal, meat and dairy products will be covered, how they are processed and impacts on food quality and nutrition. Current issues will be discussed, such as world food supply, food-borne disease, diet and health, and new trends in food. Students will need to attend the Hawkesbury Campus for Lectures and Practicals.

300842.2 Food Science 2

Credit Points 10 **Level** 2

Assumed Knowledge

Knowledge of first year chemistry and biology; understanding of food composition.

Prerequisite

300805.1 Food Science 1

Equivalent Units

FS109A - Food Science & Technology Practicum 1.2; 300499 - Food Science 2

Special Requirements - Essential Equipment

Students are required to have Personal Protection Equipment for attendance at practical, ie. Laboratory coat, safety goggles, enclosed shoes.

.....

This unit introduces students to the principles of food preservation, including heat treatments, chilling, freezing, dehydration, pickles and fermentation. Factors affecting food quality are explored with respect to microbial, chemical and physical changes in food and their effects on food safety, nutritional value and sensory characteristics. The basic principles of good manufacturing practises, sanitation and Hazard Analysis Critical Control Point (HACCP) for control of food safety will be studied in relation to the design of safe food manufacturing processes. The application of

the food preservation principles to the processing of food products is covered through hands-on practicals in the pilot plant.

102305.1 Food: A Cultural History

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points in the currently enrolled course.

.....

The modern world seems obsessed by food. This unit will look at the historical development of sources of food, from archaeological evidence of the earliest human meals through the emergence of agriculture and its scientific modifications to the physical and cultural evidence of technological changes in methods of preservation, preparation, cooking and eating various foods. Food is also integral to our social, religious and cultural lives and the unit will investigate the historical origins of some of these customs. Students will have the opportunity to range across time and place (through readings, recipes and field trips) to explore foods that are part of their cultural heritage - or feasts that they wish they could have eaten from centuries long past.

300843.1 Forensic and Environmental Analysis

Credit Points 10 **Level** 2

Assumed Knowledge

An understanding and competence with basic chemical principles including SI units, chemical symbols, formulas and equations, stoichiometry, the mole concept, equilibria, acids and bases, pH and electrochemistry. Introductory statistics – mean, standard deviation, distributions, linear regression

Prerequisite

300800.1 Essential Chemistry 1 OR **300808.1** Introductory Chemistry

Equivalent Units

300493 - Forensic and Environmental Analysis

Incompatible Units

300832 - Analytical Chemistry and 300297 - Analytical Chemistry 2

Special Requirements - Essential Equipment

Safety glasses and laboratory coat, laboratory book, enclosed footwear

.....

This unit extends the student's knowledge and experience of analytical techniques by applying them to forensic investigations and analysis in the environmental and food sciences. It will provide an understanding of the chemical and physical principles underlying the use of instrumentation in chemical analysis. Topics include principles of spectroscopic techniques, separation methods; sample collection and storage; presumptive testing; modern chemical instrumentation for gas and liquid chromatography; atomic spectroscopy; mass spectroscopy; x-ray methods and spectroscopic methods.

301120.2 Forensic Anthropology

Credit Points 10 **Level** 3

Assumed Knowledge

Knowledge of the general aspects of contemporaneous note taking, crime scene documentation and crime scene photography.

Prerequisite

300806.1 Forensic Science AND **300825.2** Introduction to Anatomy OR **301126.1** Concepts in Human Anatomy AND **300873.2** Crime Scene Investigation OR **300935.2** Evidence and Crime Scene Management

Equivalent Units

300378 - Forensic Archaeology, 300882 - Forensic Archaeology

Unit Enrolment Restrictions

Students must have completed 60 credit points at Level 1 and 40 credit points at Level 2.

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The objectives of this unit are to gain an understanding of the changes to the human body from death to discovery and how we can use the biological variability of humans to assist in the identification of human remains. Students will learn the fundamentals of detection, excavation and identification of human and non-human remains and learn how to prepare their findings for court. Students will be required to apply the knowledge gained during lectures to a practical based excavation, analysis and preparation of a case file.

401170.2 Forensic Biology

Credit Points 10 **Level** 3

Prerequisite

300817.1 Molecular Biology AND **300845.1** Genetics

Equivalent Units

300377 - Forensic Analysis of Physical Evidence, 300918 - Invertebrate Biology

Special Requirements - Essential Equipment

Safety glasses, laboratory coat, enclosed footwear and SD memory card.

.....

This unit is designed to extend your knowledge and understanding regarding forensic biology and its relevance to forensic investigations. You will gain experience and understanding regarding the recognition and collection of biologically relevant evidence (including blood, semen and saliva), through to the application of presumptive testing, confirmatory testing, DNA profiling methods and evidence reporting. There is a focus on front-end forensic biology work (item examination, presumptive testing, DNA recovery via swabbing and isolation of biological material) coupled with a theoretical understanding of the scientific principles that underpin current DNA analysis techniques, presumptive tests and DNA profiling results.

300868.1 Forensic Chemistry

Credit Points 10 **Level** 3

Assumed Knowledge

Knowledge of general and analytical chemistry equivalent to satisfactory completion of Chemistry 1, Chemistry 2, Essentials of Chemistry 1, Essentials of Chemistry 2 and a second year analytical chemistry unit.

Prerequisite

300297.2 Analytical Chemistry 2 OR **300843.1** Forensic and Environmental Analysis

Equivalent Units

300494 - Forensic Chemistry

Special Requirements - Essential Equipment

Safety glasses and laboratory coat.

.....

This unit extends the student's knowledge and understanding of chemical topics that are relevant to forensic investigations, and provides a deeper understanding of the underlying chemical and physical principles. Topics are taught in the context of the correct principles and procedures for collecting and conserving evidence, and the safe handling of chemical substances. Topics include an extended range of modern chemical instrumentation; the chemistry and analysis of various classes of drugs; clandestine drug laboratories; fire, arson and accelerants; explosions and explosives; and various forms of trace evidence (including textile fibres, glass and paint).

300806.1 Forensic Science

Credit Points 10 **Level** 1

Assumed Knowledge

Basic academic skills, including the ability to write essays in English at a level appropriate to a first-year undergraduate student.

Equivalent Units

300654 - Forensic Science, SC103A - Forensic Science

Special Requirements - Essential Equipment

Safety glasses and laboratory coat, laboratory book and enclosed shoes.

.....

This unit aims to give students a basic understanding of scientific methodology as it applies to the collection, analysis and interpretation of forensic evidence. Students are introduced to a range of crime scene investigation methods and analysis methods that are used with various types of forensic evidence. The concept of individualisation is introduced and the importance of this concept in forensic science is explained. Case studies are used to explain the concepts discussed in this unit. The role of human factors is discussed, together with the importance of critically evaluating forensic evidence and the means by which it was obtained.

102621.1 Formal and Functional Grammar

Credit Points 10 **Level** 7

Equivalent Units

102336 - Functional Grammar, 100722 - Functional Grammar

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit invites students to study the grammar of English from two related perspectives, formal grammar and functional grammar. The unit provides students with skills in the use of grammar in application to the analysis of a diverse range of texts. Students will develop an understanding of the structures and the functions of English across contexts. This skilled application will enhance their capacities as teachers of English, understanding how English varies in its use and allowing them to support their own students' skilled use of English across contexts.

300404.2 Formal Software Engineering

Credit Points 10 **Level** 3

Prerequisite

20025.2 Discrete Mathematics AND **300103.2** Data Structures and Algorithms

.....

This unit is concerned with the design, development and maintenance of computer software systems. The unit focuses on current formal specification and system verification technologies and methodologies. Foundations of model checking such as LTL and CTL, as well as a particular practical model checker SPIN will be thoroughly studied in this unit. The SPIN model checker with programming language PROMELA will be used for all software development and verification practices throughout this unit.

700144.2 Foundation Physics 1 (WSTC Prep)

Credit Points 10 **Level** Z

Assumed Knowledge

Year 10 Mathematics and Science or equivalent

Equivalent Units

900079 - Foundation Physics 1 (UWSC)

Incompatible Units

700026 - Physics (UWSCFS); 900036 - Physics (UWSC)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

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This unit replaces 700026 - Physics (UWSCFS) from Term 1 2014. This unit provides a brief introduction to the essentials of Physics. This unit is focused on skills and knowledge that students from a variety of science, construction and engineering courses need in their first year

of study. Students cover introductory topics in Mechanics, Energy and Power, Electricity and waves.

700145.3 Foundation Physics 2 (WSTC Prep)

Credit Points 10 **Level** Z

Assumed Knowledge

Year 10 Mathematics and Science or equivalent

Prerequisite

Students enrolled in 7066 Diploma in Engineering Extended must have passed 700144 Foundation Physics.

Equivalent Units

900080 - Foundation Physics 2 (UWSC)

Incompatible Units

900068 - Physics (UWSC), 700026 - Physics (UWSCFS)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

.....
This unit provides students with the background knowledge and skills in physics needed for Engineering courses. Students will cover more advanced content in Mechanics, Electricity, Magnetism and waves.

401029.3 Foundations for Nursing Practice

Credit Points 10 **Level** 1

Assumed Knowledge

Knowledge of human Bioscience, Arts (Social Sciences) or a three year post-secondary school, registered nurse qualification from overseas.

Unit Enrolment Restrictions

Students must be enrolled in 4692 - Bachelor of Nursing (Graduate Entry).

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

.....
This unit is conducted in an intensive study mode that is offered to students with a previous degree in biological or behavioural science or who are registered nurses with registration from overseas. The unit provides foundational and core learning activities to support student transition into second year units of the Bachelor of Nursing (Graduate Entry).

200979.1 Foundations of Entrepreneurship

Credit Points 10 **Level** 1

Unit Enrolment Restrictions

Students must be enrolled in courses 3746 Bachelor of Entrepreneurship (Games Design and Simulation) or 3747 Bachelor of Entrepreneurship.

.....
This unit introduces students to the necessary foundations for starting a business and entrepreneurship. Students will be introduced to the Australian business environment and key principles for setting up an entrepreneurial and competitive Business within that environment. Students will be exposed to theories and frameworks on entrepreneurship, entrepreneurial processes, and new and emerging entrepreneurship issues. Students will apply knowledge gained through completing a case study of a real start-up company.

101927.1 Foundations of Media Arts and Production

Credit Points 10 **Level** 1

Equivalent Units

63197 - Image, Sound & Text, 101055 - Screen Media, 700179 - Foundations of Media Arts and Production (WSTC)

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This unit explores creative and independent media arts practices across moving image, audio and participatory forms, and introduces students to fundamental principles of sound and screen production. The unit maps theoretical and practical connections between the creation and study of images and sound across media formats through an integrated theory/practice programme focused on the processes through which media artefacts are created. Students learn how to analyse and critically evaluate screen media and also to plan and make simple short works of their own. It introduces students to relevant media arts histories and contexts (with a focus on cinema) in addition to a range of technologies, media practices and production techniques.

400863.2 Foundations of Research and Evidence-Based Practice

Credit Points 10 **Level** 1

Equivalent Units

700064 - Foundations of Research and Evidence-Based Practice (UWSC)

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This unit considers the reasons and roles for evidence-based practice and research in healthcare, introducing students to core concepts and relevant terminology. Skills are developed for asking clinical or professional healthcare questions and translating these skills into search strategies for finding evidence. To make sense of that evidence, students are introduced to quantitative and qualitative research methods, types of data, how data are described and how biostatistics is used to provide meaning to research data.

700064.2 Foundations of Research and Evidence-Based Practice (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

400863 - Foundations of Research and Evidence-Based Practice

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

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This unit will consider the reasons and roles of evidence-based practice and research, and introduce students to their language and core concepts. Skills will be developed for asking clinical or professional healthcare questions and to translate these into search strategies for finding evidence. To make sense of that evidence, students will be introduced to quantitative and qualitative research methods, types of data, how data is described and how biostatistics is used to provide meaning to research data.

101754.3 From Corroborees to Curtain Raisers (Day Mode)

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in the currently enrolled course.102412

.....

This unit will provide students with an understanding of the historical framing and cultural re-framing of Indigenous Australians in the live arts. Students will be provided with a theoretical understanding of the politics of representation through examining and reflecting on the transitional shifts that Indigenous artists' have made from: cultural performance to theatre productions; 'traditional' storytelling to telling of stories through poetry and writing; ceremonial sounds to music and spoken word performance; documentary film to screen based drama to exploring new technologies and moving image performance. Students will be introduced to a variety of Indigenous artists and their creative works.

101755.2 From Ochre to Acrylics to New Technologies

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

.....

This unit is available to all Undergraduate students who have open electives. This unit examines the emergence of

the Indigenous Australian visual arts movement. It will provide students with a body of knowledge which explores the transition of art-making as it emerged from an historical cultural practice: from ochre to acrylics to new technologies. In examining the Indigenous visual arts movement beginning with the Papunya Tula artists, students will gain an insight into the significant contribution urban and regional Indigenous artists make to the Australian economy and culture. Students will have the exciting opportunity to participate in site visits and engage with a number of Indigenous visual artists.

102520.1 From Vindication to Liberation: A Comparative History of Feminism

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

.....

Beginning with Mary Wollstonecraft's A Vindication of the Rights of Woman, this historical survey analyses the Western feminist ideas and action over the past two centuries, exploring examples from Australia, France, the UK and the US. Important stages in the history of Western feminism will be studied, from the early equality feminism of the eighteenth century, to domestic feminism and the woman suffrage campaigns of the nineteenth. Aspects of the history of more recent feminism will include such developments as the role of maternalism in the creation of the welfare state, and the shift to an emphasis on liberation in the 1960s and 1970s.

400881.3 Functional Anatomy

Credit Points 10 **Level** 1

Prerequisite

400868.2 Human Anatomy and Physiology 1

Equivalent Units

400134 - Human Medical Sciences 3

Incompatible Units

300319 - Introduction to Human Anatomy and Histology, 300320 - Introduction to Human Physiology, 400256 - Human Medical Sciences 2, 300755 - The Appendicular Skeleton

Unit Enrolment Restrictions

Students must be enrolled in Sport and Exercise Science, Physiotherapy, Occupational Therapy or Podiatry due to limited Wet Anatomy laboratory space.

.....

This unit covers in depth the functional anatomy of the musculoskeletal system. Special attention is given to the relationship between form and function, the terminology used to describe human movement and thorough knowledge of the bony landmarks, joints, muscle attachments, innervation, blood supply along with detailed actions of specific muscles and muscle groups. Emphasis is on a practical functional context with the relevance to clinical applications such as surface and imaging anatomy, and the anatomical basis of common injuries. Learning experience intends to stimulate proactive deep approach in

learning anatomy motivated by the outcomes driven from specialist work within the Health professions.

300936.1 Functional Proteins and Genes

Credit Points 10 **Level** 2

Prerequisite

300816.1 Cell Biology AND **300803.1** Essential Chemistry 2

Equivalent Units

300219 - Biochemistry 1, 300555 - Proteins and Genes

Special Requirements - Essential Equipment

Student must have closed-in shoes, lab coat, safety glasses and laboratory note book.

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Biochemistry is the study of the chemistry of life. By understanding the structure and roles of biological macromolecules found in cells students will develop the concept of self assembly of these molecules to form life. Topics include the structure of carbohydrates, lipids, proteins, and nucleic acids and how they function in the lipid and aqueous environments of the cell. Basic metabolism is introduced with an overview of the major pathways in cells, mechanisms of regulation, and an introduction into important cofactors and intermediary molecules. These concepts will be reinforced through practical classes that teach critical skills in experimental design, analysis and interpretation.

700112.2 Fundamentals for Engineering Studies (WSTC AssocD)

Credit Points 10 **Level** 1

Unit Enrolment Restrictions

Students must be enrolled in 7022 Associate Degree in Engineering

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This unit serves as an introduction to the key mathematics and physics concepts required to study engineering at a tertiary level. This unit has two major components, physics and mathematics. The physics component includes physical quantities, scalars and vectors, kinematics and dynamics. The mathematics component includes basic arithmetic and algebra, trigonometry, coordinate geometry, relations and functions and introduction to differentiation.

200977.1 Fundamentals of Australian Law

Credit Points 10 **Level** 1

Corequisite

200010.2 Criminal Law

Equivalent Units

200006 - Introduction to Law, 700157 - Introduction to Law (WSTC)

Incompatible Units

200909 - Enterprise Law

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This unit provides students with the fundamental legal skills required to succeed in the study and practice of law.

Students will be introduced to the Australian legal system, legal study skills, how law is made, how cases and statute interact, the Australian court hierarchies, legal research, legal referencing, case analysis skills, statutory interpretation skills, an introduction to legal ethics and justice, and an introduction to the impact of the Australian legal system on Australian First Peoples.

400880.2 Fundamentals of Exercise Science

Credit Points 10 **Level** 1

Equivalent Units

400802 - Professional Practice of Sport Exercise Science, 700073 - Fundamentals of Exercise Science (WSTC)

Unit Enrolment Restrictions

Students must be enrolled in 4658 Bachelor of Health Science (Sport and Exercise Science) or 4659 Bachelor of Health Science (Personal Development, Health and Physical Education).

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This unit is designed to provide fundamental basic science and sport and exercise science content, with the intent to prepare the students for the more advanced scientific applications to the study and research of the sport and exercise sciences. Students will be exposed to computer software applications to aid data processing used in the sport and exercise sciences, with special applications to fields such as biomechanics, exercise physiology, motor learning, skill acquisition and sport psychology.

700073.2 Fundamentals of Exercise Science (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

400880 - Fundamentals of Exercise Science

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

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This unit is designed to provide fundamental basic science and sport and exercise science content, with the intent to prepare the students for the more advanced scientific applications to the study and research of the sport and exercise sciences. Students will be exposed to computer software applications to aid data processing used in the sport and exercise sciences, with special applications to fields such as biomechanics, exercise physiology, motor learning, skill acquisition and sport psychology.

700190.2 Fundamentals of Health Science (WSTC Prep)

Credit Points 10 **Level** Z

Equivalent Units

900090 - Science for Health Professionals (UWSC),
700059 - Science for Health Science (UWSCFS)

Incompatible Units

700061 - Introduction to Human Biology (WSTC), 300361 -
Introduction to Human Biology

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University,
The College.

Special Requirements - Essential Equipment

Students must have laboratory coat and safety goggles

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The depth of knowledge and practical skills required by health professionals in the 21st century is very different to that which was required in the past. Medical treatment of illness and disease has become increasingly technical and health professionals are expected to work in partnership in determining patient care. In order to achieve this, today's health professional must have a basic understanding of the fundamental scientific principles behind health and disease. Increasingly, modern health science is concerned with maintaining health as a way of preventing disease and this is achieved through a holistic approach to the human condition. This unit is an introduction to the basic concepts in human body systems, health and disease, that is required in order to commence any tertiary health science course.

300463.2 Fundamentals of Mechanics

Credit Points 10 **Level** 1

Equivalent Units

700023 Fundamentals of Mechanics (WSTC), 700113
Fundamentals of Mechanics (WSTC Assoc Deg)

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This unit deals with the action and interaction of forces, moments and couples in two and three dimensions. It examines the equilibrium of single bodies, and of trusses and mechanisms. It then looks at the friction between bodies. It covers the dynamics of a non-rotating body, and a body rotating about a fixed axis. Finally, internal loadings are investigated, particularly within a transversely loaded beam. The unit makes extensive use of vector algebra.

700113.2 Fundamentals of Mechanics (WSTC AssocD)

Credit Points 10 **Level** 1

Equivalent Units

700023 - Fundamentals of Mechanics (WSTC), 300463 -
Fundamentals of Mechanics

Unit Enrolment Restrictions

Students must be enrolled in 7022 Associate Degree in
Engineering

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This unit deals with the action and interaction of forces, moments and couples in two and three dimensions. It examines the equilibrium of single bodies, and of trusses and mechanisms. It then looks at the friction between bodies. It covers the dynamics of a non-rotating body, and a body rotating about a fixed axis. Finally, internal loadings are investigated – particularly within a transversely loaded beam. The unit makes extensive use of vector algebra.

700023.3 Fundamentals of Mechanics (WSTC)

Credit Points 10 **Level** 1

Prerequisite

Students enrolled in 7034 Diploma in Engineering, 7066
Diploma in Engineering Extended or 6033 Diploma in
Engineering/Bachelor of Engineering Studies must pass
700145 Foundation Physics 2 before enrolling in this unit.

Equivalent Units

300463 - Fundamentals of Mechanics, 700113 -
Fundamentals of Mechanics (WSTC Assoc Degree)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University,
The College. Students enrolled in Extended Diplomas must
pass 40 credit points from the preparatory units listed in the
course structure prior to enrolling in this University level
unit. Students enrolled in the combined Diploma/Bachelor
courses listed below must pass all College Preparatory
units listed in the course structure before progressing to the
Year Two units.

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This unit deals with the action and interaction of forces, moments and couples in two and three dimensions, on machine elements and simple structures. It examines the equilibrium of single bodies, of multi-body structures and of mechanisms. It then covers the dynamics of a particle. A systematic approach to solving practical engineering design problems is provided. The unit makes extensive use of vector algebra.

300950.2 Fundamentals of Medical Concepts and Terminology

Credit Points 10 **Level** 2

Prerequisite

300566.2 Introduction to Health Informatics

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This unit is designed to provide the student with the knowledge necessary to understand the information contained in the health record, to function in a medical environment through an understanding of the fundamentals of medicine and to effectively use disease classification systems. Within each body system, the student will study anatomy and physiology, disease processes and their treatment, and medical terminology (disease titles, symptomatic terms, surgical terms and investigations). The unit will also focus on specialist topics such as mental health, obstetrics, paediatrics, infectious diseases,

oncology, radiotherapy, nuclear medicine, diagnostic and surgical interventions.

700231.3 Fundamentals of Science (WSTC Prep)

Credit Points 10 **Level** Z

Equivalent Units

900105 - Fundamentals of Science (WSTC)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

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In its broadest sense, science is an evolving body of skills, theories and knowledge about the nature of the world, based on observation, measurement and experiment. In order to begin participating in tertiary science studies, students require a fundamental toolkit of scientific literacy that includes key concepts, language, and skills. This unit provides an overview of, and grounding in, fundamental scientific concepts including the nature of matter and energy, and the flow of energy and cycling of matter through key processes in the biosphere. Integrating these concepts within a framework of a contemporary issue, climate change, enables students to build skills in applying scientific concepts, methods and problem-solving techniques, as well as furthering an understanding of interrelationships between science and other aspects of society. The unit imparts a basic body of essential scientific knowledge, as well as facilitating skills in collecting and analysing information and writing coherent explanations within a scientific framework.

300491.2 Games Technology

Credit Points 10 **Level** 2

Assumed Knowledge

A basic understanding of the principles of programming equivalent to Programming Principles 1.

Equivalent Units

300162 - Client Server Applications

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This unit provides an introduction to the game industry as well as introducing students to the techniques of game design and construction. Students will be exposed to the history of game development and the key aspects of different genres of computer games.

102602.1 Gender and Genre

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit considers the intersection of gender and genre in various narrative forms. Through a variety of texts that may include polemic, conduct literature, plays, novels, poetry and film, students will examine the construction of masculinity and femininity within various genres, and consider the ways in which genres themselves may be

gendered. Beginning in the seventeenth century, the unit also considers the strategies that women writers, in particular, have used to participate in literary production by adopting and adapting particular generic conventions. A consideration of the ways in which gender and genre may be connected also allows students to consider questions of literary production and circulation, literary value and reputation.

101561.2 Gender, Crime and Violence

Credit Points 10 **Level** 3

Prerequisite

101560.3 Introduction to Crime and Criminal Justice

Unit Enrolment Restrictions

Successful completion of 80 credit points or 101560 - Introduction to Crime and Criminal Justice

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In recent decades, models and understanding of gender have become a major way of explaining crime and victimisation. Most obviously, feminist researchers have pioneered studies of the neglected victimisation of women from male violence and the impact of gendered discourses on the criminal justice system. This unit will critically engage with this material and also focus on contemporary accounts of the links between criminal offending and different violent and non-violent masculinities. Lastly, the shifting regulation of different sexualities and their criminalisation will be analysed.

300844.1 General Microbiology

Credit Points 10 **Level** 2

Assumed Knowledge

Knowledge of introductory biology, especially an understanding of the diversity of living organisms and basic concepts of cell structure and function is essential for students undertaking this unit.

Prerequisite

300816.1 Cell Biology OR **300802.1** Biodiversity

Equivalent Units

300331 - General Microbiology

Incompatible Units

MI104A - Microbiology 1.1; 300300 - Microbiology 1; 300833 - Microbiology 1

Special Requirements - Essential Equipment

Students are required to purchase a laboratory manual, lab coat, safety goggles and enclosed shoes.

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Microorganisms play a crucial role in soil and water ecosystems, in health and disease of plants and animals, including humans, as well as in industries such as the food and brewing industries. The unit builds on students existing knowledge of cell biology and biodiversity, and explores the characteristics of micro-organisms, the conditions required for their growth and survival, methods of control and their significance in the environment, health and industry. The theory and practice of microbiology are integrated in the

laboratory component in which students learn techniques of handling, observing, growing and counting microorganisms.

300820.1 Genes, Genomics and Human Health

Credit Points 10 **Level** 3

Prerequisite

300845.1 Genetics OR 300817.1 Molecular Biology OR 300936.1 Functional Proteins and Genes OR 300848.1 Metabolism

Genomics is the application of our knowledge of the structure and expression of genomes to understanding gene function and the genetic basis of human disease. The Unit will begin with an introduction to the human genome and its relationship to the genomes of other organisms. It will also teach how genome-wide analysis of genetic variation in individuals and populations is improving our understanding of diseases such as asthma, heart disease, obesity, dementia and cancer. Practical application of genomics in the areas of pharmacogenomics, gene therapy/ genetic medicine, genetic discrimination and ethics will also be covered.

300845.1 Genetics

Credit Points 10 **Level** 2

Prerequisite

300816.1 Cell Biology OR 300802.1 Biodiversity OR 300813.1 Wildlife Studies

Equivalent Units

BI201A - Genetics 2.2; 300547 - Human Genetics; 300623 - Genetics

Special Requirements - Essential Equipment

Lab coat, enclosed footwear

Genetics has a lot to do with sex and how genes are passed from one generation to the next. This unit introduces the student to the important conceptual issues in genetics from Mendel to DNA, from chromosomes to population genetics and from peas and fruit flies to genomics. While there is an emphasis on Mendelian and population genetics the unit also covers important concepts in molecular genetics demonstrating the link between genotype and phenotype. As the semester proceeds students are encouraged to make links between concepts and problem solving through a series of exercises that enhance an analytical view of genetics.

301118.1 Genomic Data Science

Credit Points 10 **Level** 7

Assumed Knowledge

1). Statistics: Basic understanding of core statistical concepts such as what is a variable in statistics, what is and how to make histograms and summaries of data, Gaussian vs Poisson distributions, how to plot using R; 2). Large scale data management: Basic programming skills (what is a variable in programming, "for" and "while" loops). How to view, manipulate and manage data using a Linux

command line (e.g. familiarity with basic bash command line). The HIE course 'Data Analysis And Visualization With R' (http://www.westernsydney.edu.au/hie/opportunities/training_courses/data_analysis_r) will fulfil these requirements as will the year 1 MSc Data Science units

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Access to a Computer

Successful data scientists work across multiple business domains, have the ability to rapidly grasp the basics and adapt to achieve the business intelligence outcomes. Further, it is imperative to showcase the thinking of experimental scientists such as forming testable hypotheses and identifying sources of errors. In this unit we delve into the domain of life sciences, learn how to design and conduct biological experiments and use our analytical skills to explore real data from our oral microbiomes.

101694.2 Geographies of Migration

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 80 credit points.

An international and cross-institutional discussion of immigration and settlement. Covering the theory and experience of immigration. Considers the international and national regulation of immigration and settlement policies, as well as refugee policy. Case studies are from Australia and Canada, and Singapore. Within mixed tutorial groups (with students from Singapore, Vancouver & Sydney) students will exchange experiences and opinions of immigration.

301218.1 Global Citizenship and Engagement

Credit Points 10 **Level** 3

Prerequisite

Students must have completed 120cp in their currently enrolled course prior to enrolling in this unit.

The unit aims to engage students with current global contexts to integrate professional knowledge and develop skills, attitudes and behaviours that support them to be global citizens with inter-cultural competence. As part of the unit students will be required to undertake an international learning experience relevant to their studies in an organisation outside Australia. This experience involves direct travel to an overseas organisation and/or community, and participation in activities related to that organisation and/or community. The unit is completed across a year of study, with the first semester a preparatory experience, mid-semester the opportunity to complete an overseas short program, and the final semester a time to reflect on the international engagement completed. International learning activities may include a field trip, work placement, internship, or volunteer aid experience. Students will

immerse themselves in their new international environment, make sense of the organisation's or a community's modes of action and meaning, and negotiate their ways of acting and being in the process of becoming a member and contributing to the organisation and/or community with which they engage. Students in this unit will reflect on global engagement experiences to discuss self-learning and how this learning informs personal and professional development.

102200.1 Global Criminology and Human Rights

Credit Points 10 **Level** 7

Assumed Knowledge

Undergraduate degree in criminology, criminal justice or a related social science area, or equivalent.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Global criminology is concerned with the process of respecting and fostering ideals of justice, the rule of law and human rights in an expanding range of transnational and domestic locations. These include stable, divided and post-conflict societies that are variously dealing with issues of discrimination, exploitation, insecurity and violence via international agreements, judicial and political means. The global development of justice initiatives has challenged the traditional criminological concern with individual offenders prosecuted by the sovereign nation state acting on behalf of a sole victim. In this unit students will gain a critical understanding of theories and concepts of global criminology, detail of the key aspects and uses of international criminal law, and the potential of alternative modes of attaining social justice. Case studies from around the globe will be analysed along with an emphasis placed on assessing the significance of issues, rights and justice reforms in developing regions.

102412.1 Global Digital Futures

Credit Points 10 **Level** 7

Equivalent Units

102299 - Text, Media and Memory

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate or a research course.

This unit explores how innovation in the digital era is transforming society on a global scale. Reflecting on examples drawn from around the world, students learn about the latest trends in communication, media, computing and the knowledge economy. Current and future directions are surveyed in the context of contemporary issues such as big data, digital identity and privacy, social media and crowdsourcing, gaming and visualisation, geographical information systems, virtual environments and artificial intelligence.

102576.1 Global Health, Migration and Development

Credit Points 10 **Level** 7

Assumed Knowledge

A broad and coherent knowledge, with depth in the underlying principles and concepts in one or more disciplines in Arts or Social Sciences.

This unit introduces students to the intersection between global health, human migration and economic development. Students are introduced to international efforts to manage and support better health for all populations, particularly those under stress through civil conflict or epidemic. Through the lens of migration theories, the course will examine why and how people migrate, the dynamisms and complexities of migrants' settlement in their new environment, the socio-economic and political dimensions of forced migration and its consequences, and the relationship between voluntary migration and economic and development goals at regional, national and international level.

101910.1 Global History

Credit Points 10 **Level** 1

Equivalent Units

101673 - The First Globalisation, 700134 - Global History (WSTC)

Globalisation has reshaped the entire world over the past 500 years. This unit focuses on the main dynamics leading to a more integrated world. It analyses the major transformations that human societies experienced during the past five hundred years, when many societies transitioned from agrarian societies to modern nation-states. The unit focuses on the expansion and contraction of European and Asia empires, the rise of capitalism, the mass migration of peoples, the distribution of plants, animals, and diseases. There is also discussion of resistance to globalisation, including cultural, political, military, and religious movements. By considering these processes, we can gain an understanding of modern history and our globalised world.

300917.1 Global Nutrition, Food and Community

Credit Points 10 **Level** 3

Assumed Knowledge

Understanding of human nutrition and associated health issues

Prerequisite

300933.1 Nutrition and Health 1

Equivalent Units

300651 - Nutrition and Community Health, 300786 - Global Nutrition Food and Community

This unit aims to develop an understanding of the inter relationship between nutrition and health in Australian and Global contexts. The aim is to provide the student with a sound foundation in nutritional anthropology, public health nutrition and health promotion in order that they can systematically analyse nutritional problems associated with world food issues; including those affecting minority and culturally and linguistically diverse groups within Australia; diseases of affluence and current health and nutrition issues in the community. An important objective of the unit is that students learn the principles of health promotion and how to apply effective nutrition promotion strategies in community and population settings in order to reduce the burdens of various nutritional and lifestyle related disorders and diseases like: obesity, some cancers, diabetes and cardiovascular disease and malnourishment.

101735.2 Global Politics

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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The experiences of globalization are explored from a variety of levels across time and space, from the individual to the local, the national to the international. The focus in this course will be on issues of politics, both domestic and international, but we will keep in mind that globalization is a phenomenon that is explored and assessed by a wide range of disciplines, including history, sociology, politics, law, economics, anthropology, gender studies, human geography, economics, regional and area studies, science and technology, health and epidemiology.

102345.1 Global Structures, Local Cultures

Credit Points 10 **Level** 1

Equivalent Units

101363 - Global Structures, Local Cultures

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Globalisation has created a world of convergence and, at the same time, of division. Nations appear now to be less sovereign and more limited, as their political, economic and cultural systems become enmeshed within, and in some instances subordinate to, a world system. Similarly, certain cultural styles, from the choice of footwear to neo-liberal politics, have become part of a global culture. However, while we as citizens are becoming increasingly international, we as humans are looking for meaning in smaller, local, communities. Globalisation has not, it seems, created an homogenous world culture, but rather, a world in which citizens participate in, and identify with, both global and local cultures. This subject traces the emergence of a global society and culture and, through the use of case studies drawn from throughout the world, examines the links between global structures and local cultures.

200815.2 Globalisation and Sustainability

Credit Points 10 **Level** 3

Assumed Knowledge

Basic understanding of economic concepts

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Globalisation and Sustainability introduces students to critical debates about the role of global and national institutions of power in determining economic, environmental, social and cultural outcomes. Students will be introduced to opposing and controversial theoretical perspectives on globalisation and sustainability and issues relating to Aboriginal and Torres Strait Islander peoples to improve policy and practice in the future. In the process students will be encouraged to consider problems relating to ethics, rights, justice and democracy in society. This unit can also be taken by students who have studied social science and humanities.

200848.3 Governance, Ethics and Social Entrepreneurship

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business or Information and Communications Technology course or in course 1870 Master of Chinese Cultural Relations, 1871 Graduate Certificate in Chinese Cultural Relations or 1872 Graduate Diploma in Chinese Cultural Relations.

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There is a growing need for communities and not-for-profit organisations to maintain a degree of organisational and social sustainability, without recourse to philanthropy, government, or other sources of aid. This unit adopts business and entrepreneurial principles to identify and explain the management of a social venture, with a view to ensuring organisational and social sustainability. The unit provides an understanding of governance and ethical practice to support social outcomes.

200984.1 Government and Public Law

Credit Points 10 **Level** 2

Prerequisite

200977.1 Fundamentals of Australian Law OR **200006.2** Introduction to Law

Incompatible Units

200814 - Commercial Transactions Law

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Government and Public Law introduces students to the field of public law and the operation of government in Australia. The unit has four key focus areas: Public Law in Australia, How Government Works, Government Accountability and Integrity, and Individuals and Government. The unit is intended to provide an overview of government and public law in Australia. The unit provides a foundation for the later study of Administrative Law and Constitutional Law.

401218.1 Graduate Entry Practice Experience

Credit Points 10 **Level** 2

Assumed Knowledge

Foundational professional practice nursing skills and knowledge.

Prerequisite

401029.3 Foundations for Nursing Practice

Corequisite

401008.1 Professional Practice Experience 3

Equivalent Units

401065 Professional Practice Experience A

Unit Enrolment Restrictions

Students must be enrolled in 4692 Bachelor of Nursing (Graduate Entry).

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit provides the student with an opportunity to consolidate their clinical skills development in an Australian health care facility, and contributes to the minimum professional practice experience placement requirement.

300729.3 Graphic Communication and Design

Credit Points 10 **Level** 1

Equivalent Units

700150 - Graphic Communication and Design (WSTC)

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This unit is designed to provide students with the knowledge and skills necessary to develop graphic communication, basic CAD skills and elementary design skills suitable for application within the building industry. Content: This unit provides students with an introduction to elements of graphic communication skills necessary to comprehend various building types in plan, section, elevation, isometric and perspective views. The unit also introduces students to basic CAD (Computer Aided Design and Drafting) concepts and skills. Students will also be required to develop appropriate analytical and problem solving skills in dealing with a realistic building project.

700150.2 Graphic Communication and Design (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

300729 - Graphic Communication and Design

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

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This unit is designed to provide students with the knowledge and skills necessary to develop graphic communication, basic CAD skills and elementary design skills suitable for application within the building industry. This unit provides students with an introduction to elements of graphic communication skills necessary to comprehend various building types in plan, section, elevation, isometric and perspective views. The unit also introduces students to basic CAD (Computer Aided Design and Drafting) concepts and skills. Students will also be required to develop appropriate analytical and problem solving skills in dealing with a realistic building project.

102276.1 Graphic Design: Developing a Personal Portfolio

Credit Points 10 **Level** 3

Prerequisite

102270.1 Graphic Design: The Professional Context OR **102275.1** Contextual Design Studies

Unit Enrolment Restrictions

Successful completion of 200 credit points in currently enrolled course.

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This unit focuses on the development of your practice and portfolio as a graphic designer. Throughout the previous core units and unit pairings you will have developed particular skills and interests that are beginning to define your design practice and your portfolio. The briefs set in this unit offer you the opportunity to specialise further and to develop your portfolio and will, where possible, include live briefs and competitions. As part of this unit you will be offered the opportunity to apply to take part in the 'Design Hub' which will bring a team of students together to work on an industry set brief. You will continue to refine and develop your visual language, your material and digital skills, and continue to develop as an independent learner. The unit will culminate in an in-house exhibition of work undertaken in your degree to date.

102265.1 Graphic Design: Interactive Digital Media

Credit Points 20 **Level** 2

Assumed Knowledge

Students should have skills in producing documents or illustrations using Photoshop and Illustrator.

Prerequisite

101922.1 Web and Time-based Design

Special Requirements - Essential Equipment

As part of a professional practice component for Assessment task 1, students will be required to pay for web hosting and domain name registration for this class. This will be completed in class time from week 4, where students will be guided through the process. The cost will be approximately \$40-90 AU. Some provision will be made for those who can demonstrate financial hardship. Note that this cost is less than traditional text books.

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Digital technology shapes the way we interact with our world. Design of these interactions is a crucial role for today's designers. This unit will develop students' critical interaction and visual design skills in the digital realm, including interface and experience design. Digital design specific research skills, methods and processes are covered. These include user research, persona development, storyboard development, lo-fi and hi-fi prototyping, wireframes and proof of concept methods. Students will engage with problem-based project briefs, and develop solutions that are appropriate for both client and audience needs across a range of devices. Outcomes include app, web and screen designs.

102261.2 Graphic Design: Understanding the Principles

Credit Points 20 **Level** 1

Equivalent Units

700193 - Graphic Design: Understanding the Principles (WSTC)

Incompatible Units

101540 Introduction to Typography; 101019 Digital Design Production

Special Requirements - Essential Equipment

Students are expected to have a basic kit of graphic design "tools". Pencils (HB, 2B, 3B), eraser, ruler, scissors and paper glue. In addition students will require some form of digital storage device - USB or external hard drive.

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This unit introduces students to the fundamental principles of visual language and graphic design practice. Through a series of workshops, exercises and project briefs, students will learn how elements such as colour, composition, text, typography and image can be used to communicate meaning in a variety of contexts. Through the project briefs students will begin to develop their awareness of graphic design as a problem solving activity and apply their understanding of the design process in relation to research skills, idea generation, reflective practice, and both written and verbal communication skills. Students will learn the importance of prototyping, developing and refining their ideas through practice, and aspects of the digital print production process will also be introduced. Students will be introduced to design software packages and to support the ongoing development of their digital media skills they will be provided with access to resources for independent online learning.

301074.2 Graphics 1: 2D and 3D Industrial Design Communication

Credit Points 10 **Level** 1

Equivalent Units

300302 - Industrial Graphics 1: Presentation

Special Requirements - Essential Equipment

Drawing/Rendering Equipment: A3 Bleedproof paper pad, A3 Layout paper pad, HB lead pencil, Set of French curves, Artliner pens (various size nibs), Copic markers (C2, C4, C6), Soft blue pencil (Aquarelle brand), Pentel Sign Pen

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Design visualisation in the form of 2D and 3D graphics is a necessary component of the overall design process. This unit introduces students to using different types of representation; from low-fidelity to high-fidelity (ideation through sketching, scaling and accuracy, concept communication in 2D and 3D). Students will learn through project work in which they integrate use of different software tools and drawing skills to realise and communicate their ideas and design intent.

301076.1 Graphics 2: Visual Simulation

Credit Points 10 **Level** 2

Equivalent Units

300310 - Industrial Graphics 3: 3D Solids

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Three-dimensional digital simulations are used to model manufactured artefacts, create virtual environments and simulate dynamic processes or systems. In this unit students will use 3D modelling software to simulate static and dynamic 3D structures. High quality photorealistic rendering and 3D printing file preparation will also be covered.

301079.1 Graphics 3: 3D Engineering Specifications and Visualisation

Credit Points 10 **Level** 2

Prerequisite

301076.1 Graphics 2: Visual Simulation OR **300964.1** Introduction to Engineering Practice

Equivalent Units

300282 Industrial Graphics 2: Transition

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This unit introduces formal graphical communication methods used by professionals engaged in the design, manufacture and management of manufactured items. Students will learn how to follow Australian Standards for engineering drawings, and to use Computer-Aided Design (CAD) software for accurately representing and modelling basic parts and assemblies. 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. The objective of this unit is to introduce students to the industry standard software and hardware employed to generate these models, via a "hands

on" approach to creating 3D data. Issues such as data transfer, rapid prototyping, computer numerical control (CNC) machining and visualisation will also be discussed.

301091.1 Graphics 4: Kinetic Narratives

Credit Points 10 **Level** 2

Prerequisite

301079.1 Graphics 3: 3D Engineering Specifications and Visualisation

Equivalent Units

300312 - Industrial Graphics 4: Surface

This unit introduces students to real life applications of graphics technology, such as 3D games, 3D virtual environments, immersive learning spaces, dynamic 3D simulations of ecosystems, artwork for public spaces, virtual agents. Students will use different software platforms to create interactive 3D environments. They will apply theories of human-computer interaction to design projects where they develop: "a dynamic simulation of a natural or artificial ecosystem", a dynamic 3D virtual environment in which users interact with agents.

301092.2 Graphics 5: Creative Computing

Credit Points 10 **Level** 3

Assumed Knowledge

It is preferred but not mandatory that students should have understanding of 3D CAD and basic programming since this is a personalised unit.

Special Requirements - Essential Equipment

Online work safety module must have been completed prior to workshop space use. Specific requirements regarding machine use may require student safety inductions per apparatus i.e. drill, sander.

This is a personalised project-based learning unit that assists students to creatively bring together their skills learned in previous units (e.g. Graphics and Visualisation stream in Industrial Design). It introduces students to current problem solving in professional practice that negotiates between physical and digital relations (e.g. a robot and its avatar) and assists them to develop a professional portfolio show piece for the time they look for a job in the industry. Learning by experimentation, the unit links traditional skillsets (e.g. software, 3D printing) with new forms of design (e.g. digital design and engineering narratives within augmented and virtual environments).

102698.1 Green Urbanscapes: Bio-Physical Functions and Services

Credit Points 10 **Level** 7

Assumed Knowledge

A general understanding of the core concepts related to urban ecosystems and/or planning.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Continued urbanisation and the effects of environmental change exert increasing pressure on urban ecosystems. Yet their functions and services are paramount for liveable, diverse and prosperous cities. This interdisciplinary unit delivers a practical understanding of the bio-physical functions and services provided by urban ecosystems. It will introduce students to bio-physical functions and how they can be measured empirically, using state-of-the-art scientific equipment and tools. As part of the next generation of urban planners and researchers, students will learn how to address complex issues such as sustainable development, urban heat island effects and how to increase green infrastructure in urban environments.

301097.1 Greenhouse Technology for Food Sustainability

Credit Points 10 **Level** 2

Assumed Knowledge

Students entering this unit should have knowledge of least one of the following subject areas: horticultural production systems; environmental sustainability analytics; technological design and development; consumer behaviour and/or marketing principles; health promotion and/or human nutrition.

Greenhouses are enclosed structures that optimise temperature, light, water and carbon dioxide to maximise plant production. Also called 'greenhouse horticulture', these advanced systems integrate technologies across disciplines (e.g. horticultural, environmental and material sciences; mechanical engineering and design; robotics and computing programming) to create futuristic indoor environments that increase the quantity and quality of plant-derived foods. Controlled environments can significantly reduce reliance on inputs (fertiliser, pesticide, energy and water) and reduce environmental impacts (including 'food miles'). This unit explores a range of greenhouse technologies in Australia and overseas—from simple low-cost options, through to cutting-edge technology in energy and water-efficient production. Students will observe current status and future trends in the industry to examine how advanced technologies can improve sustainability measures along with the reliability of horticultural output. Students will consider how innovative horticultural enterprises can provide consumers with greater capacity to adopt more sustainable diets.

200925.1 Growth, Cycles and Crises

Credit Points 10 **Level** 3

Equivalent Units

200816 - Economic Theories, Controversies and Policies

Growth, Cycles and Crises gives students an up-to-date understanding of macroeconomic developments, empirical puzzles, theoretical controversies and policy dilemmas of the day. It begins with an overview of different schools of thought and their historical roots. There follows an investigation of recent global crises, their underlying causes, and the policy responses in the major economic

powers. We also consider the stresses on Australia resulting from global economic fluctuations and shifts, causing disruptive exchange rate swings and fiscal difficulties. Finally with major developments around the world and the controversies arising from them, such as debt crises and austerity debate, the problem of unbalanced growth in rapidly developing economies, and stagnation and policy zigzags apparent in some advanced economies.

400896.1 Gymnastics and Dance

Credit Points 10 **Level** 3

Incompatible Units

100671 - Human Movement 5, 100672 - Introduction to Dance

Unit Enrolment Restrictions

Students must be enrolled in 4742 Bachelor of Health Science (Health and Physical Education)-Pathway to Teaching (Secondary), 4747 Bachelor of Health Science (HPE) or 6001 Diploma in Health Science/Bachelor of Health Science (Health and Physical Education)

Students will actively engage in a variety of dance styles and gymnastics movement experiences to develop their own composition and skill competencies. In the gymnastics component of this unit, students will participate in floor routines and strength and conditioning activities, and will develop skills on the vault, bars and beam. In the dance component of this unit, students will gain experience in a variety of dance styles, including line dance, indigenous dance, ballet, contemporary dance, and hip hop. Students will examine the elements of movement and composition that underpin these physical activities in order to plan and implement quality-learning experiences.

102296.1 Hadith: The Prophetic Tradition

Credit Points 10 **Level** 1

The Islamic canon is comprised of two chief sources: Qur'an and Hadith. Muslim life is governed by the manner in which these are understood and applied to the everyday. Whilst the Qur'an is the foundational corpus of the religion, it does not provide specifics on many facets of social and political activity. For this, Muslims rely on sunnah: "habitual practice", which is the body of traditional social and legal custom and practice of the Islamic community. The specialised documentation of Hadith (sayings or actions attributed to the Prophet) made this body of text a reliable and favoured method of knowing the sunnah of the Prophet Muhammad. In this unit students will explore the origin and development of hadith, its sources, and function in Muslim life.

101716.3 Healing and Culture

Credit Points 10 **Level** 3

Incompatible Units

100886 - Special Topics in Cultural and Social Analysis

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

This unit takes as its starting point the idea that disease has social and cultural as well as biological origins. What people define as good health and illness, and how they treat the latter are profoundly shaped by cultural frameworks. Healing practices, including biomedicine, are underpinned by cultural understandings and larger configurations of power. We will examine notions of disease causality across cultures and explore the argument that good and ill health are about more than just the body. Popular understandings of illness and its origins, and techniques for responding to and seeking to remedy illness can be a reflection of how different societies imagine their place in the world.

700226.2 Health Care Environments (WSTC Prep)

Credit Points 10 **Level** Z

Equivalent Units

900106 - Health Care Environments (WSTC)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

Health care environments introduces students to foundation knowledge for health science level units in their degree. This includes supporting the independence and well being of clients, regardless of age or disability. Focus in this unit includes working legally and ethically, working with diverse people and following safe work practices. Effective communication is imperative, through written care plans, identifying what has been provided using client centred practice. This unit incorporates most core and elective units in the Certificate III in Individual Support. Students can pursue a qualification through the College RTO in one of three specialisations- Disabilities, Ageing, and Home & Community.

400275.2 Health Planning Project

Credit Points 10 **Level** 3

Prerequisite

400273.1 Health Politics, Policy and Planning

This unit extends the theoretical concepts introduced in the unit, Health Politics, Policy and Planning with an emphasis on practical application and obtaining skills in health project management. It concentrates on the development of project management skills required for comprehensive assessment, planning and implementation of health programs or projects. The unit is designed so that students work collaboratively as a multidisciplinary team to develop and manage a workplace health planning project, on a current health issue identified by the health industry. Students thus develop knowledge of skills in project management, stakeholder negotiation, intergroup

dynamics, committee structure and functioning, project consultation and planning and management with a deliverable outcome (report).

401195.1 Health Politics, Policy and Planning

Credit Points 10 **Level** 3

Equivalent Units

400966 - Health Politics, Policy and Planning. 400273 - Health Politics, Policy and Planning

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The Australian health care system is highly complex, consisting of inter-related sub-systems and it is influenced by the broader socio-political environment. It is essential that health professionals understand and consider the economic, political and social context within which health policy and planning occur, so that strategies and policies are developed which are economically and politically viable, as well as socially acceptable and responsive to the actual needs of the community. This unit aims to develop apply policy making and planning processes within this broad context.

400210.2 Health Promotion and the Nurse

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Access to a computer and the internet.

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The challenge for nursing in terms of health promotion is to acknowledge the complex interrelatedness between a person's social and economic situation, their sense of power and control over their life and their physical, emotional and spiritual well-being, i.e. To understand that health is determined by the totality of a person's life circumstances and their inherent traits. This unit uses a social health perspective to examine evidence-based health promotion strategies that can be implemented in the context of nursing practice.

400784.4 Health Promotion Practice 1

Credit Points 10 **Level** 3

Prerequisite

400867.2 Approaches to Health Promotion

Unit Enrolment Restrictions

Students must be enrolled in 4656 B Health Science/6000 Dip Health Science/B Health Science (Health Promotion)

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This unit builds on the knowledge gained in Approaches to Health Promotion. It provides the opportunity to apply health promotion theory to practical projects in the field related to current population health priorities, through 140 hours service learning experience. It is concerned with developing knowledge and skills related to needs analysis, prioritising, and awareness of core values and principles associated with health promotion practice.

400785.2 Health Promotion Practice 2

Credit Points 10 **Level** 3

Prerequisite

400867.1 Approaches to Health Promotion AND **400784.2** Health Promotion Practice 1

Equivalent Units

400276 - Community Development and Health

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This unit builds on the knowledge gained in Health Promotion Practice 1 through continuing with phases necessary for project design and management health promotion. It provides the opportunity to apply health promotion theory to practical projects in the field related to current population health priorities, through 120 hours service learning experience. It is concerned with developing knowledge and skills related to implementation and evaluation of health promotion projects, showing awareness of core values and principles necessary for effective health promotion practice.

400279.4 Health Services Financial Management

Credit Points 10 **Level** 3

Prerequisite

400787.2 Health Services Management Practice

Unit Enrolment Restrictions

Students must be enrolled in 4545 or 4656 Bachelor of Health Science or 6000 Diploma in Health Science/ Bachelor of Health Science

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The Australian health care system must account for use of resources, and ensure their equitable and efficient use. Increasingly devolution of management function to cost centre level in health care organisations is occurring. Managers must consider the financial implications of clinical decisions, understand and act on accounting information. They are held responsible for the financial outcomes of their activities. This unit develops a basic knowledge of accounting principles, health services funding arrangements, government reforms, financial reporting, preparation of budgets, business cases and economic appraisals. There are 140 hours of placement in the field working with health managers on financial issues.

400277.4 Health Services Management

Credit Points 10 **Level** 2

Corequisite

Students enrolled in 3711 Bachelor of Information and Communications Technology (Health Information Management), must have completed or be enrolled in 300955 Healthcare Data Environments.

Equivalent Units

700068 - Health Services Management (WSTC)

The health workplace is a complex and sophisticated environment that can be understood in many different ways and mean different things to different members of an organisation. Assumptions about organisational structure and action are based on conceptualisations and beliefs about the nature and goals of an organisation. This unit aims to develop an understanding of organisational theory and its application to management practice and organisational analysis in the health arena.

400787.3 Health Services Management Practice

Credit Points 10 **Level** 3

Prerequisite

400277.4 Health Services Management

Equivalent Units

400278 - Health Services Management 2

Unit Enrolment Restrictions

Students must be enrolled in 4656 Bachelor of Health Science, 2786 Bachelor of Business, (M4010 Health Management Major), 3711 Bachelor of Information and Communications Technology (Health Information Management), 6000 Diploma in Health Science/Bachelor of Health Science or 6037 Diploma in Business/Bachelor of Business or 6038 Diploma/Bachelor of Information and Communications Technology (Health Information Management).

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The unit begins with an overview of the complexity and variability of health services and provides an understanding of component organisations, federal and state policy issues and environmental factors including the role of the private sector and non-government organisations. The changing role of the health services manager and competencies required for effective managing are examined. Influences on organisations are reviewed, including structures, culture, power and politics. Various management functions are explored through 140 hours of placement e.g. strategic planning, performance management, people management including workplace relations, conflict resolution, resource management (financial and asset), risk management, health and safety in the workplace and quality assurance.

400788.4 Health Services Workforce Management

Credit Points 10 **Level** 3

Prerequisite

400787.2 Health Services Management Practice

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This is a flexible learning unit looking at human resource management (HRM) as a strategic activity of health organisations especially as workforce shortages pose significant challenges to the health and aged care sectors. The workforce, with appropriate knowledge and expertise, is essential to the efficient and effective delivery of quality health services. Successful organisations shape the workforce to anticipate current and future directions and goals. Workforce planning is a crucial element of this approach and its success.

401207.1 Health Variations 1 - Perioperative

Credit Points 10 **Level** 2

Assumed Knowledge

Primary health care, foundational knowledge of human biological sciences including human body systems, immunity, wound healing, infection control, basic concepts in pharmacology and pathophysiology and the relationship to nursing practice.

Corequisite

Co-requisites for 4691 and 4693: 401002 Bioscience 1 and 401006 Bioscience 2.

Equivalent Units

401010 Health Variations 1

Unit Enrolment Restrictions

Students must be enrolled in 4691 Bachelor of Nursing, 4693 Bachelor of Nursing (Advanced) or 4692 Bachelor of Nursing Graduate Entry.

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit provides the theoretical background knowledge for Professional Practice 3. It introduces the student to the fundamental principles of perioperative nursing care in supporting clients undergoing surgical interventions incorporating the related pathophysiology and pharmacology. In particular, nursing care of surgical interventions relating to the gastrointestinal, musculoskeletal and reproductive systems, and injury prevention and controls will be the focus of case history reviews. The National Health Priority Areas of Injury Prevention and Control, Arthritis and Musculoskeletal conditions and Cancer Control will be addressed.

401209.1 Health Variations 2 - Chronic Illness and Disability

Credit Points 10 **Level** 2

Assumed Knowledge

Primary health care, foundational knowledge of human biological sciences including human body systems, basic concepts in pharmacology and pathophysiology and the National Health Priorities and the relationship to nursing practice.

Corequisite

Co-requisites for 4691: 401002 Bioscience 1 and 401006 Bioscience 2.

Equivalent Units

401014 Health Variations 2

Unit Enrolment Restrictions

Students must be enrolled in 4691 Bachelor of Nursing or 4692 Bachelor of Nursing Graduate Entry course.

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit explores the concepts of chronicity, disability, habilitation and rehabilitation in relation to chronic conditions, functional and intellectual disabilities and their implications for nursing practice. The relevance of the International Classification of Functioning, Disability and Health (ICF) to primary health care is the core philosophy of the unit. National Health Priority case studies drawn from across the lifespan will provide a focus for exploring pathophysiology, pharmacological interventions and nursing care related to chronic conditions of the endocrine, neurological and respiratory body systems. In addition, the nursing role in supporting those with physical and intellectual disability will be examined.

401215.1 Health Variations 2 Advanced - Chronic Illness and Disability

Credit Points 10 **Level** 2

Assumed Knowledge

Primary health care, foundational knowledge of human biological sciences including human body systems, basic concepts in pharmacology and pathophysiology and the National Health Priorities and the relationship to nursing practice.

Corequisite

401002.1 Bioscience 1 AND **401006.1** Bioscience 2

Equivalent Units

401024 Health Variations 2 (Advanced)

Unit Enrolment Restrictions

Students must be enrolled in 4693 Bachelor of Nursing (Advanced).

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit encourages critical analysis to explore the concepts of chronicity, disability, habilitation and rehabilitation in relation to chronic conditions, functional and intellectual disabilities and their implications for nursing practice. National Health Priority Case Studies drawn from across the lifespan will provide a focus for exploring pathophysiology, pharmacological interventions and

nursing care related to chronic conditions of the endocrine, neurological and respiratory body systems. In addition, a problem-solving nursing approach will be developed for supporting those with physical and intellectual disability.

401210.1 Health Variations 3 - Acute Exacerbations of Chronic Conditions

Credit Points 10 **Level** 2

Assumed Knowledge

Primary health care, foundational knowledge of human biological sciences including human body systems, basic concepts in pharmacology and pathophysiology and the National Health Priorities and the relationship to nursing practice.

Corequisite

Co-requisites for 4691: 401002 Bioscience 1 and 401006 Bioscience 2.

Equivalent Units

401015 Health Variations 3

Unit Enrolment Restrictions

Students must be enrolled in 4691 Bachelor of Nursing, 4692 Bachelor of Nursing Graduate Entry or 4693 Bachelor of Nursing (Advanced).

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit uses case studies based on the National Health Priority areas to further develop knowledge of pathophysiology, pharmacology and nursing implications for people across the lifespan who may experience acute exacerbations of chronic conditions. A major focus will be related to the nursing management of chronic conditions involving the cardiovascular and renal systems, and acute exacerbations of chronic conditions affecting the respiratory and musculoskeletal systems.

401211.1 Health Variations 4 - Acute Life Threatening Conditions

Credit Points 10 **Level** 3

Assumed Knowledge

Primary health care, foundational knowledge of human biological sciences including human body systems, basic concepts in pharmacology and pathophysiology and the National Health Priorities and the relationship to nursing practice.

Corequisite

Co-requisites for 4691: 401002 Bioscience 1 and 401006 Bioscience 2.

Equivalent Units

401018 Health Variations 4

Unit Enrolment Restrictions

Students must be enrolled in 4691 Bachelor of Nursing or 4692 Bachelor of Nursing Graduate Entry.

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit develops a student's knowledge and skills related to the pathophysiology, pharmacology and nursing care for people who experience an acute life-threatening and/or traumatic condition that may involve multiple systems failure. National Health Priority case studies based on National Health Priority areas are used in the unit to focus on cardiovascular health, and injury prevention and control. The unit will also consider habilitation and rehabilitation of people who have experienced acute life-threatening or traumatic complex health issues.

401216.1 Health Variations 4 (Advanced) - Acute Life Threatening Conditions

Credit Points 10 **Level** 3

Assumed Knowledge

Primary health care, knowledge of human biological sciences including human body systems, concepts in pharmacology and pathophysiology and the National Health Priorities and the relationship to nursing practice.

Corequisite

401002.1 Bioscience 1 AND **401006.1** Bioscience 2

Equivalent Units

401026 Health Variations 4 (Advanced)

Unit Enrolment Restrictions

Students must be enrolled in 4693 Bachelor of Nursing (Advanced).

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit develops a student's knowledge, critical thinking and problem-solving skills related to the pathophysiology, pharmacology and nursing care for people who experience an acute life-threatening and/or traumatic condition that may involve multiple systems failure. National Health Priority case histories used in the unit will focus on cardiovascular disease, and injury prevention and control. The unit will also consider habilitation and rehabilitation of people who have experienced acute life-threatening or traumatic complex health issues. Workshops will be used to provide the student with the necessary advanced

assessment, clinical problem-solving skills and simulation experiences to recognise the deteriorating patient with potential life-threatening conditions and intervene with reporting, monitoring and initiation of treatment skills.

401212.1 Health Variations 5 - Palliative and End of Life Care

Credit Points 10 **Level** 3

Assumed Knowledge

Primary health care, biological behavioural and social sciences, pharmacology and pathophysiology and the National Health Priority areas.

Corequisite

Co-requisite units for 4691 and 4693: 401002 Bioscience 1 and 401006 Bioscience 2.

Equivalent Units

401019 Health Variations 5

Unit Enrolment Restrictions

Students must be enrolled in 4691 Bachelor of Nursing, 4693 Bachelor of Nursing (Advanced) or 4692 Bachelor of Nursing (Graduate Entry).

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit develops a student's knowledge and problem-solving skills utilising a palliative approach when caring for individuals and their families who are experiencing life limiting illness. Case histories featuring a lifespan approach and that address the National Health Priority Areas will be used to illuminate the palliative approach as a model of care. Students will explore the benefits of a palliative approach when supporting dying individuals with any life limiting illness. Students will also acquire the capabilities to develop self-care strategies to manage their own grief, loss and stress associated with working in a palliative setting.

101610.2 Health, Illness and Biomedicine: A Sociological Perspective

Credit Points 10 **Level** 2

Equivalent Units

101361 Sociology of Medicine and Health Care

Unit Enrolment Restrictions

Successful completion of 40 credit points.

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The Sociology of Medicine and Health Care starts from the basic premise that illness and health are social as well as biological processes. Traditional areas of the discipline are explored and in each case their applicability to public health is stressed. At the same time, an important goal is to suggest how that field is being redefined and reinvigorated by social and cultural studies of science and technology.

The theoretical perspectives and substantive issues raised and developed to study them are critically examined. The provision and organisation of health care are examined with emphasis on the social and political context in which public health is pursued and ill health treated within Australia.

300955.1 Healthcare Data Environments

Credit Points 10 **Level** 3

Prerequisite

300566.1 Introduction to Health Informatics

Equivalent Units

300567 - e-Health

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This unit extends the students knowledge of Health Informatics by introducing concepts relating to electronic communications within the Health Industry. It exposes students to a variety of environments used to create, store, transfer and deliver healthcare data. Areas include minimum data sets, data linkage, messaging concepts/ standards, terminologies, healthcare evaluation, electronic health records and related Standards, security, privacy and trust, epidemiology and population health together with TeleHealth/ TeleMedicine approaches, methodologies, tools and techniques.

300956.1 Healthcare Software and Systems

Credit Points 10 **Level** 3

Prerequisite

300566.2 Introduction to Health Informatics

Equivalent Units

300568 Services Computing in Healthcare

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In this unit students will learn the concepts underpinning the services computing paradigm of "bridging the gap between Business Services and IT Services". Services Computing technology includes Web services and serviceoriented architecture (SOA), business consulting methodology and utilities, business process modelling, transformation and integration. Students will learn, through the development of practical examples, how to utilise these technologies within a healthcare context

102069.1 Heritage and Planning

Credit Points 10 **Level** 7

Equivalent Units

101588 - Introduction to Urban Design

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This unit explores the values behind, and practicalities regarding, heritage and planning, from federal and state perspectives in Australia. With a specific focus on Sydney, the unit explores how planning applications, within the urban development sphere, impact upon heritage assets, and how these impacts are mitigated through heritage planning legislation. The unit asks students to step into the shoes of heritage planning professionals and to identify and research a heritage asset that is to be impacted by a potential planning proposal and then to design an

appropriate mitigation response within the bounds of relevant heritage legislation.

101599.3 Heritage and Tourism

Credit Points 10 **Level** 3

Incompatible Units

300453 Cultural Heritage and Tourism, 101280 Cultural Heritage and Tourism

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This unit examines the relationship between heritage (both cultural and natural) resources and tourism. It firstly provides an introduction to contemporary issues in heritage and tourism management. Secondly, it investigates the phenomenon of heritage and tourism – its nature, the market, visitors, the issues in planning and management – in the context of sustainable tourism praxis in Australia (and globally) as well as in the context of local communities.

101643.2 Heritage Interpretation

Credit Points 10 **Level** 3

Equivalent Units

EH326A Tourism and Interpretation, 300454 Heritage Interpretation, 101281 - Heritage Interpretation

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This unit examines the theory and practice of heritage interpretation for visitors at natural and cultural heritage sites. It examines the development of heritage interpretation within national parks and museums and explores the various issues facing contemporary interpretation in the context of multicultural and postcolonial societies and the advent of digital media.

300988.1 Highway Infrastructure

Credit Points 10 **Level** 3

Prerequisite

300733.2 Introduction to Structural Engineering AND **300985.1** Soil Mechanics

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This unit focuses on two key aspects of highway infrastructure design, namely, the bridge superstructure design and the foundation soil preparation prior to construction of the highway pavement. It aims to provide students with specialised knowledge in bridge loading and structural design, methods to deal with soft and weak grounds, and building of earth embankments to support the highway pavement. These aspects will be discussed in relation to Australian design codes.

102043.1 Historical Linguistics

Credit Points 10 **Level** 3

Assumed Knowledge

Knowledge of fundamental linguistic terminology, introductory level linguistics; preferably phonetics/ phonology and structure of language.

Prerequisite

101945.1 Introduction to Linguistics

Corequisite

102042.1 The Sound of Language AND **101948.1** Structure of Language

Equivalent Units

101452 - History of the English Language

Unit Enrolment Restrictions

Successful completion of 60 credit points including the pre-requisite unit listed above.

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This unit provides an introduction into the study of language change. It discusses fundamental questions such as how and why languages change, how we can investigate and theoretically capture language change, as well as how language change is connected to sociocultural change with special focus on the linguistic habitat of Australia.

102006.2 Histories of Crime and Punishment

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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In 2017 this unit replaced by 102479 - Cultures of Crime and Punishment. This unit examines the way crime and punishment has been defined and practiced in a range of different historical periods, and how laws and customs have shaped them. It provides an opportunity for students to improve their research and communication skills and enhance their ability to work as part of a team.

102583.1 History of Ideas

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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Ideas matter. It has been said that "ideas are what men and women live by, and will occasionally die for." If you want to explore and understand the relationship between ideas and actions across a range periods, places and perspectives, then this is the unit for you. The history of ideas is concerned with exploring and understanding the lived experience, the reality of ideas. We consider how the history of ideas can help us to interpret key thinkers and their ideas and how these ideas have shaped societies past and present.

100507.4 History of Modern China to 1949

Credit Points 10 **Level** 3

Equivalent Units

63177 - History of Modern China 1850-1949: Reform and Revolution.

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This Asian history unit is concerned with the transformation of China in a social, political and intellectual context since the middle of the nineteenth century. The unit focuses on China's modern transformation in the first half of the twentieth century and its contemporary relevance. The scope is broad, encompassing changes from the last decades of the Qing Dynasty to the Republican era and the rise to power of the Communists in 1949. The approach is issue-oriented, thematic and, where appropriate, chronological.

102184.1 History of Muslim Civilisations and Ideas

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit focuses on intellectual, societal, institutional and technological developments within the Muslim world. It looks at comparisons and interconnections between regions and peoples and outlines the history and context of Muslim political thought from the death of Mohamed to the contemporary period. The unit will have a strong historiographical focus that examines 'Islamic data-sets' and assesses the concepts of primary and secondary source materials which conventionally are used to construct interpretations of the past.

101991.1 History of Sexuality

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit introduces students to some key debates about the definition and origin of sexuality as a concept, and to the historical origins of particular sexual identities and the political values attributed to them. It teaches students to take account of the differing ways that forms of desire, pleasure, obscenity, pornography, perversion, sin and transgression have been articulated across time and place. In the unit we traverse an array of temporal moments and geographic loci, drawn to the 'hotspots' of historiographic contention.

101611.2 Home and Away: Ethnicity and Migration in Australia

Credit Points 10 **Level** 3

Equivalent Units

101320 - Sociology of Ethnicity and Migration

Unit Enrolment Restrictions

Successful completion of 80 credit points.

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Using contemporary and historical sociological accounts of migration and ethnicity, this unit analyses the social, cultural and economic impact of international migration, with

specific reference to Australia. It further introduces students to major sociological issues, both theoretical and empirical, relating to the construction of migrant groups within settler societies. Key concerns of the unit include the position of indigenous peoples, race and racism, ethnic identity, and ethnic conflict and cooperation in society.

400945.1 Honours Research 1

Credit Points 20 **Level** 5

Prerequisite

400944.1 Evidence-Based Practice (Advanced)

Unit Enrolment Restrictions

Students must be enrolled in an embedded honours program in a health science course. This unit is specifically tailored to accommodate the course and progression requirements of such students and is not relevant as a general elective.

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This unit commences the significant research component of the student's honours degree. Students will work on their specific research project in conjunction with their supervisor, engaging in the early stages of the research process related to critical review of the literature, designing their project, considering ethical dimensions of their study, and collecting data. The emphasis of this unit is on the application of research knowledge gained in other units to the practical conduct of the individual honours project.

400946.1 Honours Research 2

Credit Points 20 **Level** 5

Prerequisite

400945.1 Honours Research 1

Unit Enrolment Restrictions

Students must be enrolled in a health science course and studying honours as part of an embedded program of study. This unit will be specifically tailored to accommodate the course and progression requirements of such students and is not relevant as a general elective.

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In this unit students will complete the significant research component of their honours study. They will build upon the skills and knowledge of research, evidence-based practice and scholarly enquiry gained in units completed earlier in the program. The emphasis of this unit is the completion of a supervised honours research project. Each student will work individually with their supervisor to complete the stages of data collection and data analysis and will write their results into a format suitable for submission for examination. Students will also present their final at a student conference that is at professional conference level.

401046.2 Honours Research 2 (Podiatric Medicine)

Credit Points 20 **Level** 5

Assumed Knowledge

Completion of all core units to this semester/ year of study is assumed knowledge.

Prerequisite

400945.1 Honours Research 1 AND **400944.2** Evidence-Based Practice (Advanced) AND **400929.3** Podiatric Practice 1 AND **400930.4** Podiatric Practice 2

Corequisite

401114.1 Podiatric Practice 3

Unit Enrolment Restrictions

The unit is a Podiatry specific honours research project and therefore restricted only to students enrolled in course code 4709 - Bachelor of Podiatric Medicine (Honours).

Special Requirements - Essential Equipment

Podiatric Medicine UniClinic Uniform if conducting research with direct patient contact.

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In this unit students will complete the significant research component of their honours study as a year-long unit of study (offered as 1H and 2H sessions). They will build upon the skills and knowledge of research, evidence-based practice and scholarly enquiry gained in units completed earlier in the program. The emphasis of this unit is the completion of a supervised honours research project. Each student will work individually with their supervisor to complete the stages of data collection and data analysis and will write their results into a format suitable for submission for examination.

301096.1 Horticultural Production Systems

Credit Points 10 **Level** 1

Assumed Knowledge

Basic knowledge of plants

Equivalent Units

300451 - Horticultural Production 2, 300330 - Fruit Production, 300616 - Crop Production, 300815 - Crop Production

Special Requirements - Essential Equipment

Enclosed footwear, lab coat, secateurs

.....

Food represents the single largest part of your environmental footprint. This means our modern, urban-oriented society must begin to reconnect with the sources of our food to create more sustainable future. This unit explores the scientific basis of sustainable crop production by examining fruit, vegetable and grain enterprises. Management of produce from harvest to consumption will also be explored to examine factors that impact upon food quality and safety. Students will compare and contrast growing conditions of the highly variable Australian environment to consider the global context for horticultural industry development. By delving into the world of crop management, students will identify the impacts (opportunities and constraints) of plant physiology on the sustainability of food. Students will also consider how novel food products can prompt consumers to appreciate the environmental, economic and social benefits that can arise from sustainable horticultural production.

200995.1 Hospitality and Tourism in Practice

Credit Points 10 **Level** 3

Incompatible Units

200708 - Hospitality Industry

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Hospitality and tourism play an important role in society impacting directly and indirectly on many elements of everyday life. With the ability to both positively and negatively impact on individuals, communities and economies, hospitality and tourism are viewed from the perspective of different stakeholders. Within this unit a contextual understanding and analysis of hospitality and tourism is provided through interaction with industry practitioners and discussion of contemporary issues impacting the industry.

200561.3 Hospitality Management Applied Project

Credit Points 10 **Level** 3

Assumed Knowledge

This is an advanced unit, students are expected to have gained an introductory level of knowledge in hospitality management.

Prerequisite

200707.2 Service Industry Studies

Equivalent Units

200140 - Tourism and Hospitality Research Project

Incompatible Units

200580 - Sport Management Applied Project

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Students studying Hospitality Management Applied Project may have the opportunity to undertake an international field trip to experience the hospitality industry from an international perspective. This unit provides students a unique opportunity to integrate knowledge gained from operational and theoretical perspectives of hospitality studies into application in an engaged research project in hospitality management. Students will engage in comprehensive projects which bring together real world industry problems and hospitality theory.

200989.1 Hospitality Places and Spaces

Credit Points 10 **Level** 3

Equivalent Units

200148 - Planning and Design Hospitality Facilities

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Contemporary hospitality settings often require specialised services and distinctive facilities. Matching the physical spaces and places with hospitality, to the services and experiences provided, is an integral part/consideration of contemporary hospitality practice. As future managers in the industry, it is imperative to have a sound basic knowledge of the design, development and commercial viability of such products, services and spaces, especially in

the context of consumer expectations, in order to remain competitive and sustainable.

200994.1 Hospitality Profitability and Entrepreneurship

Credit Points 10 **Level** 3

Assumed Knowledge

Introductory level of knowledge in hospitality management

Equivalent Units

200584 - Hospitality Management Operations

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This unit examines operations management in the hospitality sector, as a means to achieve profitability. Students will develop advanced knowledge and desirable attributes applicable to operational planning, financial management, risk management and legal compliance, human resource management, business relationship management and sustainability. Special emphasis is placed on providing students with knowledge and skills to make informed decisions to proceed and develop their own ventures or alternatively be more innovative within existing businesses.

102661.1 How to Write History

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit introduces students to specific styles of historical methodology, considering how each of these styles alter the kinds of questions historians ask, how they select their sources, and how they account for the differences between past and present. Students undertake an independent, guided Applied Project on a historical methodology relevant to their intended thesis project.

400868.3 Human Anatomy and Physiology 1

Credit Points 10 **Level** 1

Incompatible Units

300319 Introduction to Anatomy and Histology, 300320 Introduction to Human Physiology, 300361 Introduction to Human Biology, 300752 Introduction to Anatomy and Histology, 300753 Introduction to Human Physiology, 300778 Introduction to Anatomy, 400130 Human Medical Science 1, 400256 Human Medical Science 2

Unit Enrolment Restrictions

Students must be enrolled in 4658 Bachelor of Health Science (Sport and Exercise Science), 4660 Bachelor of Health Science/Master of Traditional Chinese Medicine, 4661 Bachelor of Health Science/Master of Podiatric Medicine, 4662 Bachelor of Health Science/Master of Physiotherapy, 4663 Bachelor of Health Science/Master of Occupational Therapy, 4666 Bachelor of Health Science (Honours)/Master of Podiatric Medicine, 4668 Bachelor of Health Science (Honours)/Master of Physiotherapy, 4669 Bachelor of Health Science (Paramedicine), 4706 Bachelor of Physiotherapy, 4707 Bachelor of Physiotherapy (Honours), 4708 Bachelor of Podiatric Medicine, 4709

Bachelor of Podiatric Medicine (Honours), 4710 Bachelor of Traditional Chinese Medicine, 4711 Bachelor of Occupational Therapy, 4712 Bachelor of Occupational Therapy (Honours).

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This is the first of two units covering systematic anatomy and physiology at an introductory level. This unit is designed to provide students in applied health science programs with an overview of body systems and their functions to ensure a suitable basis for their future studies. The unit studies the basic concepts of biochemistry and histology, general anatomy and physiology of the major body systems including the central and peripheral nervous systems, integumentary system, musculoskeletal system (bones, muscles and joints), special senses and endocrine system. Emphasis will be placed on the interconnection and relationship between structure and function at every level of organisation.

400869.3 Human Anatomy and Physiology 2

Credit Points 10 **Level** 1

Assumed Knowledge

Basic biological/anatomical/physiological principles, as would be acquired in 400868 Human Anatomy & Physiology 1.

Incompatible Units

300319 - Introduction to Human Anatomy and Histology, 300320 - Introduction to Human Physiology, 400256 - Human Medical Sciences 2, 400130 - Human Medical Sciences 1, 300825 - Introduction to Anatomy, 300752 - Introduction to Anatomy and Histology, 300753 - Introduction to Human Physiology, 300818 - Introduction to Physiology, 300778 - Introduction to Anatomy

Unit Enrolment Restrictions

Anatomy labs are used which restricts the number of students that can enrol in this unit. Students must be enrolled in one of the courses for which the unit is a core requirement (currently 4658 Bachelor of Health Science (Sport & Exercise Science), 4663 Bachelor of Health Science/Master of Occupational Therapy, 4660 Bachelor of Health Science/Master of Traditional Chinese Medicine, 4661 Bachelor of Health Science/Master of Podiatric Medicine, 4662 Bachelor of Health Science/Master of Physiotherapy, 4666 Bachelor of Health Science (Honours) Master of Podiatric Medicine, 4668 Bachelor of Health Science (Honours) /Master of Physiotherapy, 4669 Bachelor of Health Science (Paramedicine)).

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Human Anatomy and Physiology 2 systematically covers anatomy and physiology at an introductory level. This unit is designed to provide students, especially those in clinical health science programs, with an overview of body systems and their functions, to ensure a suitable basis for their future studies. The unit studies the basic structure and function of the major body systems such as cardiovascular, respiratory, digestive, urinary, reproductive and lymphatic. This unit also explores the physiological processes involved in the immune response, cell metabolism, regulation of body fluids and acid-base balance. Emphasis is placed on the interconnection and relationship between structure and function at every level of organisation.

300807.1 Human Animal Interactions

Credit Points 10 **Level** 1

Incompatible Units

300426 - Introduction to Animal Science, 300560 - Human Animal Interactions

Special Requirements - Essential Equipment

Laboratory coats, closed in work boots, long pants and long-sleeved shirt.

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This unit introduces students to the varying relationships between humans and animals including domestication, the role of animals for companionship, as workers, the traditional role of animals in agriculture, wildlife and zoo animals and their increasingly recognised aesthetic and therapeutic roles. Students will work with a variety of domesticated animals, captive native mammals, and reptiles on-campus, and in a variety of animal industries off campus, including wildlife parks and zoos. The unit includes a balance of theoretical and practical work in the areas of behaviour and handling, basic husbandry, health care, and ethical management.

401005.2 Human Relationships and Life Transitions

Credit Points 10 **Level** 1

Unit Enrolment Restrictions

Students must be enrolled in 4691 Bachelor of Nursing, 4693 Bachelor of Nursing (Advanced) or 4684 Bachelor of Midwifery. Unitrack students may study this unit as a miscellaneous unit.

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit enables students to develop an understanding of human relationships and life transitions, and introduces concepts that inform nursing and midwifery practice. The unit explores frameworks that support an understanding of the psychological, social, cognitive and moral components of human development throughout the lifespan, the development of self, and normative (expected) and non-normative (deviation from the expected) life transitions in the context of people realising their health potential.

200740.4 Human Resource and Industrial Relations Strategy

Credit Points 10 **Level** 3

Prerequisite

200300.2 Managing People at Work OR **200890.1** Management Practice

Incompatible Units

200618 - Human Resource Strategy, 200615 - Industrial Relations Strategy

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Students in 'Human Resource and Industrial Relations Strategy' analyse the human resource and industrial relations strategies of the major employment relations stakeholders. While the principal focus is on the organisational level of analysis and on the strategic interventions introduced by management, the unit also analyses the strategic roles of government, trade unions, and employer associations. Through a range of learning activities, students examine the relationship between business strategies and HR/IR strategies, strategic HR/IR interventions, the concept of strategic choice as it concerns stakeholders and the evaluation of strategy. Students also engage with the development of human resource management and industrial relations as a professional field and consider ethics and professional standards.

200859.1 Human Resource Development

Credit Points 10 **Level** 2

Prerequisite

200300.2 Managing People at Work

Students enrolled in 1735 Bachelor of Humanitarian and Development studies are exempt from having to complete 200300 Managing People at Work.

Equivalent Units

61422 - Employee Training and Development, 200610 - Employee Training and Development

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'Human Resource Development' (HRD) looks at how the development of people and their skills is essential to the 21st century workplace. By examining the key processes of employee learning, development and career management, participants will understand HRD's impacts on workers' employability and careers, organisational effectiveness and economic sustainability. The unit introduces concepts of workplace learning and engages participants in case study discussion and research into current HRD trends in Australian and international workplaces. The goal of Human Resource Development is to support participants to ask questions about current practice and to encourage critical understanding of the field.

101988.1 Human Rights and Culture

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit examines the cultural consequences of the rise of the global human rights regime. It introduces debates about cultural relativism and universal human rights and explores a number of areas of contemporary conflict between cultural practices and human rights norms. It also examines the role of human rights NGOs in creating a new global

human rights culture, and asks what it means to be a subject of human rights.

200953.1 Human Rights in Practice and Theory

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge such as is gained through completion of a law degree (Bachelor of Laws or Juris Doctor) or equivalent in any jurisdiction.

Unit Enrolment Restrictions

Students must be enrolled in course 2784 or 2810 Master of Laws (International Governance), 8083 Bachelor of Research Studies, 8084 Master of Research - HC or 8085 Master of Research - LC.

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This unit examines the place of regional human rights systems in the global architecture of human rights. Concepts of universalism, relativism and the 'Asian values' debate are examined. The record of human rights treaty ratification and compliance in Asia and the Pacific is examined within the context of the international treaty system as well as the ASEAN regional human rights regime. The development and implementation of international and domestic human rights protections in criminal law, constitutional law and institutional construction are examined across the region.

101573.2 Human Rights, Peace and Development

Credit Points 10 **Level** 1

Equivalent Units

400673 - Inequality & Human Rights

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The Universal Declaration of Human Rights (UDHR) was written in response to the atrocities of World War II. Since its ratification, the UDHR has been a 'roadmap' for peace, forming the basis for international responses to conflicts, poverty and disadvantage. This unit examines and critiques the concept of human rights. It will be shown how differentials of political and economic power between countries and groups within countries are used to prioritise and preference different rights so as to justify selective humanitarian efforts in the initial phases of peace-making and the policy requirements for peace-building in human social, economic and cultural development.

300570.3 Human-Computer Interaction

Credit Points 10 **Level** 3

Equivalent Units

300160 - Software Interface Design

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A key component to the discipline of Information Systems is the understanding and the advocacy of the user in the development of IT applications and systems. IT graduates must develop a mind-set that recognizes the importance of users and organisational contexts. They must employ user centered methodologies in the development, evaluation,

and deployment of IT applications and systems. This unit examines human-computer interaction in order to develop and evaluate software, websites and information systems that not only look professional but are usable, functional and accessible.

300901.2 Human-Computer Interaction (Advanced)

Credit Points 10 **Level** 3

Incompatible Units

300570 - Human-Computer Interaction, 300160 - Software Interface Design

Unit Enrolment Restrictions

Students must be enrolled in course 2801 Bachelor of Information Systems Advanced/Bachelor of Laws, 3684 Bachelor of Information and Communications Technology (Advanced), 3688 Bachelor of Information Systems Advanced or 3745 Bachelor of Information Systems Advanced/Bachelor of Business.

IT graduates must be able to develop and evaluate software, websites and mobile apps that not only look professional but are usable, functional and accessible. However, the study of HCI is often restricted to its use as a tool in the software development process. This advanced unit also examines HCI as a field of research and how to conduct research into human user factors. Students in this advanced unit will be required to complete a research project and produce a final research report, which is of a standard capable of being considered for publication in a HCI conference or journal.

102577.1 Humanitarian and Development Agendas and Progress

Credit Points 10 **Level** 7

Assumed Knowledge

A broad and coherent knowledge, with depth in the underlying principles and concepts in one or more disciplines in Arts or Social Sciences.

This unit enables students to map the emergence of international humanitarian and development agencies from the mid-20th century to the modern day. Students will consider and assess international efforts to end poverty, such as the United Nations Conference on the Human Environment, the Rome Declaration and Plan of Action on World Food security, the Millennium Development Goals (MDGs) and the post-2015 Sustainable Development Goals (SDGs). A particular emphasis is placed on developing the skills to gauge the accountability and ethical approaches of humanitarian actors and agencies in global development.

100961.4 Humanities Internship

Credit Points 10 **Level** 3

Equivalent Units

10360 - Art History Internship, 63149 - History Internship, 100486 - Asian and International Studies Internship, 100857 - Cultural and Social Analysis Practicum

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course. The Internship unit demands that students have an in-depth understanding of the field in which the placement or project work is to be executed. This level of expertise can only be achieved by consistent study in the discipline area. Students will only be permitted to undertake the unit if a staff member has agreed to supervise them and has evaluated their proposal for a project.

This unit aims to provide third year humanities students with first-hand knowledge of workplaces or research processes related to their chosen field of study (major), such as art galleries, museums, libraries, local and state government, tourism and administration or in academic contexts. The unit will introduce students to various fields in which the skills developed over two years of study in humanities can be applied. It will augment their study and provide much needed work experience. The internship placement and/or project will be chosen by the student in consultation with the staff member responsible for the major area and the placement will be overseen and the academic work assessed by the member of staff responsible for the major area of study relevant to the internship.

300765.2 Hydraulics

Credit Points 10 **Level** 3

Assumed Knowledge

Mathematical knowledge equivalent to the content within 200238 Mathematics for Engineers 2.

Prerequisite

300762.2 Fluid Mechanics

Equivalent Units

300740 - Water Engineering, 85009 - Water Engineering

The unit covers the principles of open channel hydraulics, pipe hydraulics and culvert hydraulics. Specific topics in open channel hydraulics include uniform flow, resistance equations, specific energy principle, flow types, gradually varied flow and rapidly varied flow. The purpose is to enable design of efficient open channels to meet engineering requirements. In addition, principles of pipe and culvert hydraulics are introduced, enabling analysis and design of pipe networks and culverts.

300989.1 Hydrogeology

Credit Points 10 **Level** 3

Prerequisite

300762.2 Fluid Mechanics

This unit covers principles of hydrogeology. It contains concepts related to occurrence of groundwater, groundwater movement, groundwater hydraulics, water wells, quality of groundwater, groundwater modelling and groundwater management. The objectives of this unit are to enable students to learn the concept of groundwater and

apply the learnt concepts in solving groundwater problems in engineering practice.

300136.4 I.T. Support Practicum

Credit Points 10 **Level** 3

Prerequisite

300150.3 PC Workshop AND **300138.3** LAN Workshop OR **300576.2** Networking Workshop

Unit Enrolment Restrictions

Students must be in their final session of study and enrolled in the Bachelor of Information and Communications Technology or Bachelor of Information and Communications Technology (Advanced).

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This unit provides students real-world experience in the area of Information Technology (IT) support. Students are located with industry partners in the Greater Western Sydney region in IT support positions for 10 hours per week over a 12 week period. In addition, students receive instruction and tuition in aspects of professional practice such as code of ethics.

101612.3 Identity and Belonging

Credit Points 10 **Level** 2

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Identity and belonging are foundational concepts in sociology. This unit commences with an overview of the ways in which these concepts are understood in the social sciences and how these understandings have been impacted more recently by processes of globalisation. Through engagement with films, documentaries and academic texts the unit explores different modes and sites of identity and belonging as they circulate on both local and global scales. Specifically, we will examine topics like gender and sexuality, home and neighbourhood, the nation state and nationality, social class, consumption, work and leisure, ethnicity, youth cultures and new media. The unit equips students with the concepts and theories necessary for an understanding of social continuity and social change and encourages them to reflect on their own identities and social and cultural positionings.

401171.1 Imaging Science

Credit Points 10 **Level** 2

Equivalent Units

300376 - Digital Forensic Photography 2, 300864 - Imaging Science and Photographic Evidence

Special Requirements - Essential Equipment

Grip kit (basic laboratory equipment – i.e. linear scales, blue tac, scissors, markers, etc).

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Imaging science is a key area within the sciences. This unit explores the application of imaging science and to detect, preserve, enhance and examine scientific data. The unit focuses on; optical and digital enhancement methods that provide essential non-destructive methods of enhancing images and the analysis of the data they contain. It provides the learner with the necessary theoretical

concepts of imaging science that underpin the practice of scientific evaluation mapped in 2, 3 and 4 dimensions

300847.2 Immunology

Credit Points 10 **Level** 2

Prerequisite

300936.1 Functional Proteins and Genes

Equivalent Units

300229 - Immunology

Incompatible Units

300223 - Cell Signalling and Molecular Immunology

Unit Enrolment Restrictions

Successful completion of 60 credit points at Level 1 and 20 credit points at Level 2.

Special Requirements - Essential Equipment

Lab coat, enclosed footwear, safety goggles.

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This unit aims to provide students with an understanding of the structure and function of the immune system, and particularly highlights common and unique systems that exist across kingdoms and phyla. A foundation is built by examining the organs and cells of the human immune system. The peculiarities associated with the immune systems of marsupials, due to their early developmental stage at birth, will also be examined. Students will also develop laboratory expertise that involves immunological principles, investigative proficiency, and science communication skills, leading to understanding the knowledge base through self-learning and group work.

102342.1 In the Realms of the Sensory: Ecologies of Word, Sound and Image

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit develops an awareness of the cultural, aesthetic and sensory contexts in which the communication, design and creative arts are practiced. It examines approaches to creative practice and the role that creativity and experimentation, as well as collaboration and social creativity, play in the research process. Particular attention is paid to visual, aural, and alphabetic technologies, and the form of augmented virtual realities and artefacts they create. Mimicry, novelty and improvisation, critique and speculation, 'handability' or tacit knowledge are some of the practices and concepts studied. While the unit is designed for students engaged in creative research, it has relevance for those analysing creative works as part of their research.

301165.1 Incubator 1: Innovation and Creativity for Entrepreneurship

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Students must be enrolled in course 3746 Bachelor of Entrepreneurship (Games Design and Simulation) or 3747 Bachelor of Entrepreneurship.

From time to time we hear stories about successful multi-million (or billion) dollar companies that started in a suburban garage. Is it that simple? The heart of the success of entrepreneurship is innovation and creativity. This unit explores the ways innovative ideas for a product or service can be turned into a successful start-up business. As such, this unit will cover topics including, but not limited to: factors essential for being able to initiate a creative idea, what is innovation, stages of developing a conceptual idea. The unit will be delivered through a number of modules. As an integral part of the unit, students are expected to engage and work in “start-up co-working space” on a regular basis. At the successful completion of this unit, students would have some possible start-up options that could be further explored into creating that multi-million (or billion) dollar company.

301166.1 Incubator 2: Legal and Ethical Setting of Entrepreneurship

Credit Points 10 **Level** 2

Equivalent Units

301206 - Incubator 2: Start-up Essentials

Unit Enrolment Restrictions

Students must be enrolled in course 3746 Bachelor of Entrepreneurship (Games Design and Simulation) or 3747 Bachelor of Entrepreneurship.

This unit is replaced by 301206 - Incubator 2: Start-up Essentials from Spring 2018. There are unavoidable legal situations and ethical dilemmas in all professions. As an entrepreneur, facing these legal and ethical circumstances is much more formidable. This unit aims to prepare students to understand the legal and ethical landscape that applies to start-up (or any) organisation. As such, this unit aims to cover the topics such as: creating a business plan, negotiating employment contracts. The unit will be delivered through a number of modules. As an integral part of the unit, students are expected to engage and work in “start-up co-working space” on a regular basis. At the successful completion of this unit, students would have developed a thorough understanding of the local and international legal and ethical landscape within which modern start-up organisations operate.

301206.1 Incubator 2: Start-up Essentials

Credit Points 10 **Level** 2

Equivalent Units

301166 - Incubator 2: Legal and Ethical Setting of Entrepreneurship

Unit Enrolment Restrictions

Students must be enrolled in course 3746 Bachelor of Entrepreneurship (Games Design and Simulation) or 3747 Bachelor of Entrepreneurship.

There are unavoidable legal situations and ethical dilemmas in all professions. As an entrepreneur, facing these legal and ethical circumstances is much more formidable. This unit aims to prepare students to understand the legal and ethical landscape that applies to start-up (or any) organisation. As such, unit aims to cover the topics such as: creating a business plan, negotiating employment contracts, etc. The unit will be delivered through a number of modules. As an integral part of the unit, students are expected to engage and work in “start-up co-working space” on a regular basis. At the successful completion of this unit, students would have developed a thorough understanding of the local and international legal and ethical landscape within which modern start-up organisations operate.

301168.1 Incubator 3: Product Development

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Students must be enrolled in course 3746 Bachelor of Entrepreneurship (Games Design and Simulation) or 3747 Bachelor of Entrepreneurship.

A creative spark or innovative idea is not enough to succeed as a start-up organisation. A new idea behind a product or a service needs to be first verified to understand the business opportunities out there. Then the identified opportunities need to be adjusted to formalise in a business concept. This unit aims to guide students through that process of converting the creative or innovative idea into the development of a product or service as a sound business concept. This objective is driven through teams of students advancing with their practical projects and along the way learning about a number of theoretical topics such as: prototyping, user testing, etc. The unit will be delivered through a number of modules. As a vital part of the unit, students are expected to engage and work in “start-up co-working space” on a regular basis. At the successful completion of this unit, students would have converted the innovative idea into a business product or service.

301169.1 Incubator 4: Commercial and Financial Setting of Entrepreneurship

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Students must be enrolled in course 3746 Bachelor of Entrepreneurship (Games Design and Simulation) or 3747 Bachelor of Entrepreneurship.

Operating a start-up is not just about being creative and innovative; it is also about having the necessary management and operational skills, understanding the commercial and financial setting within which the organisation needs to operate it. This unit aims to provide

vital details that set the background to run your organisation whether your customer base is local, national or even international. This objective is driven through a number of topics such as: setting up a business entity, accounting fundamentals, taxation fundamentals. The unit will be delivered through a number of modules. As a vital part of the unit, students are expected to engage and work in "start-up co-working space" on a regular basis. At the successful completion of this unit, students would set up as a business entity for their start-up organisation.

301170.1 Incubator 5: Operational Aspects of Entrepreneurship

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Students must be enrolled in course 3746 Bachelor of Entrepreneurship (Games Design and Simulation) or 3747 Bachelor of Entrepreneurship.

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Planning is an important part of setting up a start-up business. This would require investigating into setting goals, figuring out how to track progress, what to do when things don't go to plan and also to communicate your business concept to others, such as potential investors. This unit aims to develop the skills and knowledge required for making a business plan for the start-up organisation through a number of theoretical topics, such as: developing marketing and operational plans, staffing and management. At the completion of this unit, students will have developed a viable business plan for their start-up.

301171.1 Incubator 6: Funding and Start-up

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Students must be enrolled in course 3746 Bachelor of Entrepreneurship (Games Design and Simulation) or 3747 Bachelor of Entrepreneurship.

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This unit investigates various funding opportunities that might be suitable for your business concept through a number of theoretical topics, such as: possible funding sources including venture capitalists and angel investors, joint venture funding, pitching your ideas. The unit is structured into a number of modules. Further, as activities associated with this unit, students would have to actively seek and secure funding for the start-up.

301172.1 Incubator 7: Growth and Exit Strategies

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Students must be enrolled in courses 3746 Bachelor of Entrepreneurship (Games Design and Simulation) or 3747 Bachelor of Entrepreneurship.

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This unit will assist students with selecting the further growth strategy, which includes deciding whether their business would grow organically or will require a fast

growth model and rapid expansion strategies. The growth strategy will determine further funding decisions. Apart from this, as entrepreneurs, the students would need to also consider possible exit strategies (e.g. initial public offering (IPO), trade sales or personal redundancies). This objective is driven through a number of topics such as: elements of market research and strategies for business growth, risk management, possible exit strategies, etc. The unit will be delivered through a number of modules. As a tangible outcome, at the completion of this unit, students would have developed a future growth plan with an identification of possible exit strategies.

101905.2 Indigenous Cultures: A Global Perspective

Credit Points 10 **Level** 3

Equivalent Units

300113 - Indigenous Tourism, 100600 - Indigenous Cultures and Tourism: A Global Perspective

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in Social Sciences.

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Drawing on global case studies, this unit aims to introduce students to some of the pressing socio-cultural issues facing indigenous peoples around the world. The unit examines the complex relationships between globalisation, colonialism and post-colonialism and contemporary indigenous cultures and identities. It draws attention to the way in which issues of representation, cultural autonomy, cultural commodification, development and human rights play out with respect to indigenous peoples' lives. More specifically, the unit interrogates the power relations and politics central to many of these issues and examines the nature of contemporary indigenous and non-indigenous interactions, particularly in the contexts of tourism and heritage, the cultural industries, the environment, development and urbanisation.

101878.2 Indigenous Landscapes

Credit Points 10 **Level** 1

Equivalent Units

300631 - Indigenous Landscape

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Indigenous Landscapes aims to explore 'traditional' Indigenous Australian ways of knowing landscape. Specifically, the unit acknowledges and values pre-colonial Australian history and land-use practices. Content includes 'traditional' land management practices; protected area management, joint management /co-management; Native Title; Land Rights; Indigenous versus statute law; sustainable land use; cultural heritage and heritage landscapes. This unit also aims to equip students with cultural competency in order to address issues of dispossession and disadvantage brought about by the historical destruction and disruption of ecological integrity.

102316.1 Indonesian 101

Credit Points 10 **Level** 1

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This is an introductory unit to the Indonesian language and culture, for students who commence a specialisation in Indonesian at a beginner level. The unit equips students with basic language skills, provides a general knowledge about the sociolinguistic position of Indonesian, and introduces students to the ethnic, cultural and linguistic diversity of Indonesia, with a special focus on contemporary Indonesian culture. In addition to language classes, students will be exposed to written and audiovisual materials on different social and cultural aspects of Indonesia. Students with a background of study in the language need to obtain advice on their appropriate level of language study. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher class. Students should consult the Languages Academic Course Advisor or Unit Coordinator if they are unsure of their entry level.

102326.1 Indonesian 102

Credit Points 10 **Level** 1

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This is the second and last introductory unit in the Indonesian Language Specialisation. The unit further develops the basic language and communication skills students acquired in Indonesian 101. The vocabulary and sentence patterns covered are expanded and the communicative situations include a relatively wider variety (e.g. family, friends and community environment). The unit focuses on four language skills (listening, speaking, reading and writing). Students with a background of study in the language need to obtain advice on their appropriate level of language study. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher class. Students should consult the Languages Academic Course Advisor or Unit Coordinator if they are unsure of their entry level.

102319.2 Indonesian 201

Credit Points 10 **Level** 2

Assumed Knowledge

102326 Indonesian 102 or introductory level knowledge of basic language skills and general knowledge about ethnic, cultural and linguistic diversity of Indonesia.

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This is a Level 2 unit in the Indonesian Specialisation. It introduces students to formal and informal registers of Indonesian and exposes them to relatively complex aspects of Indonesian grammar such as affixes. Students will study the use of spoken language mainly through participation in dialogues and discussion. More formal registers will be studied through reading and writing. Communicative settings will include fields such as health, education, and tourism.

102327.1 Indonesian 202

Credit Points 10 **Level** 2

Prerequisite

102326.1 Indonesian 102

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This is a Level 2 unit in the Indonesian Specialisation. It builds on language skills developed in Indonesian 201 to extend students' use of formal and informal registers of Indonesian and further develop their knowledge of Indonesian communities, cultures and religions. The unit covers the four language skills (reading, listening, speaking and writing) with a special focus on listening and speaking.

102320.1 Indonesian 301: Indonesian for Academic Purposes

Credit Points 10 **Level** 3

Assumed Knowledge

Indonesian 202 or equivalent

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This is an advanced (Level 3) unit in the Indonesian Specialisation. It focuses on the Indonesian language styles and vocabulary appropriate for academic purposes. Students will learn formal language through reading authentic materials, engaging in open discussion, and writing on topics related to education. Students will develop their formal writing skills in Indonesian and will learn how to discuss academic subjects in a formal style as well as learning some skills in translating this style into English. They will also develop intercultural awareness by comparing and contrasting academic styles and contexts in Australia and Indonesia.

102328.1 Indonesian 302: Indonesian for Professional Purposes

Credit Points 10 **Level** 3

Assumed Knowledge

Indonesian 202 or equivalent.

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This is an advanced (Level 3) unit in the Indonesian Specialisation. It focuses on the Indonesian language styles and vocabulary appropriate for academic purposes. Students will learn formal language through reading authentic materials, engaging in open discussion, and writing and speaking about topics related to education. Students will develop their formal writing skills in Indonesian and will learn how to discuss academic subjects in a formal style. They will also develop intercultural awareness by comparing and contrasting academic styles and contexts in Australia and Indonesia.

102329.1 Indonesian 303: Indonesian for Business

Credit Points 10 **Level** 3

Assumed Knowledge

Indonesian 301 or equivalent

Prerequisite

102327.1 Indonesian 202

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This is an advanced (Level 3) unit in the Indonesian Specialisation, which should ideally be undertaken after Indonesian 301. The unit further develops students' Indonesian language skills by focusing on language resources appropriate for business communication. Students will be exposed to a range of business texts and recorded speech and engage in simulated business interactions or negotiations to enable them to communicate effectively in (formal) business settings.

102330.1 Indonesian 304: Contemporary Indonesia

Credit Points 10 **Level** 3

Assumed Knowledge

Indonesian 301 or equivalent

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This is an advanced (Level 3) unit in the Indonesian Specialisation, which should ideally be undertaken after Indonesian 301 and Indonesian 302. The unit further develops students' language skills and knowledge of Indonesian society by exposing them to written and audiovisual resources dealing with a number of contemporary issues in Indonesia. These include employment, economy, the media and social and religious movements. Students will also engage in basic research, class discussions and oral presentations about these topics.

102331.1 Indonesian 305: Past and Present of Indonesian

Credit Points 10 **Level** 3

Assumed Knowledge

Indonesian 301 or equivalent

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This is an advanced (Level 3) unit in the Indonesian Specialisation, which should ideally be undertaken after Indonesian 301 and Indonesian 302. The unit provides an overview of the history of the Indonesian language and its relation to the languages of neighbouring countries. Students will learn how Indonesian has developed as a standard language and how its spelling, lexicon and syntactical structures have changed over history.

102332.1 Indonesian 306: Indonesian Literature

Credit Points 10 **Level** 3

Assumed Knowledge

Indonesian 301 or equivalent

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This is an advanced (Level 3) unit in the Indonesian Specialisation, which should ideally be undertaken after Indonesian 301 and Indonesian 302. The unit introduces students to Indonesian literature through a historical review and reading and analysis of samples of literary works.

Students will analyse and discuss the stylistic features of the works studied as well as the social and cultural aspects reflected in them.

300773.2 Industrial Design Project (Commencement)

Credit Points 30 **Level** 5

Assumed Knowledge

Knowledge related to the successful completion of year 3 Industrial Design or equivalent (e.g. Design & Technology) is assumed. Ability to use: E-mail, Internet Web Browser, WebCT or equivalent, Word processing program, CAD software, Workshop machinery (e.g. mill, lathe, sander, rapid prototyping machine). Knowledge and/or experience in: Referencing, Lab/Workshop O&HS, Report writing, Essay writing, Process Diary, Group work, Research Methods for Industrial Designers, Project Management, Ethical Research Approval Process.

Prerequisite

300313.3 Design Studio 4: Simulate to Innovate AND **300314.2** Designed Inquiry OR **301084.1** Design Studio 6: Ambience, Place and Behaviour AND **301090.1** Contextual Inquiry

Corequisite

300775.2 Industrial Experience OR **10915.2** Industrial Experience

Equivalent Units

85032 - Industrial Design Project (Commencement)

Unit Enrolment Restrictions

Successful completion of 240 credit points. Students must be enrolled in Bachelor of Industrial Design or Bachelor of Industrial Design (Honours).

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The Industrial Design Honours Program provides students with an opportunity to apply their industrial design skills to an in-depth yearlong design research project that responds to an in-depth investigation to a particular design context. In Industrial Design Major Project (Commencement), Honours candidates develop a research plan and methodology that yield design opportunities for conceptual development and resolution (to be carried out in Industrial Design Major Project Completion). In this unit, candidates produce a comprehensive research design (and seek ethics approval as needed), literature review, preliminary concept explorations and a detailed industrial design brief.

300774.2 Industrial Design Project (Completion)

Credit Points 40 **Level** 5

Assumed Knowledge

Knowledge related to the successful completion of year 3 Industrial Design is assumed and successful completion of Industrial Design Project Commencement and Industrial Design Project Commencement's co-requisite units.

Prerequisite

300773.2 Industrial Design Project (Commencement)

Equivalent Units

85033 - Industrial Design Project (Completion)

Unit Enrolment Restrictions

Students must be enrolled in Bachelor of Industrial Design or Bachelor of Industrial Design (Honours). Ethics clearance must be obtained if required.

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The Industrial Design Honours Program provides students with an opportunity to apply their industrial design skills to an in-depth year long design research project. In Industrial Design Major Project (Completion), Honours candidates respond to the research findings and design brief that they produced in Autumn semester. They undertake detailed design development to resolve and communicate a final design solution, which is publicly exhibited at the end of the year. Their design and research communications present a strong argument for the final design and demonstrate the honours candidates capacity to undertake postgraduate design research and to join professional design practice.

300775.2 Industrial Experience

Credit Points 0 **Level** 3

Assumed Knowledge

Successful completion of 160 credit point (minimum) in either Bachelor of Design and Technology, Bachelor of Industrial Design or Bachelor of Industrial Design (Honours).

Equivalent Units

10915 - Industrial Experience

Unit Enrolment Restrictions

Students must be enrolled in Bachelor of Design and Technology, Bachelor of Industrial Design or Bachelor of Industrial Design (Honours).

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Students will gain real-life experience in developing new products or services within a company or organisation and be exposed to some of the decision-making processes that affect the development process of consumer products or services. This is whilst experiencing the multidisciplinary nature of the interaction of all those involved in the product development process from the conception of the idea to the introduction of a new product or service to market. Students use this opportunity to test the validity of the concepts studied in various course units to date in a real life situation and develop a sense of a company's "culture".

300741.2 Industrial Experience (Engineering)

Credit Points 0 **Level** 3

Assumed Knowledge

A broad background knowledge in the relevant Engineering discipline (ie equivalent to that obtained after completing 3 years of the Engineering program)

Equivalent Units

81999 - Industrial Experience (Engineering)

Unit Enrolment Restrictions

Successful completion of 240 credit points.

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Students will undertake 12 weeks full-time (37.5 hours per week) employment (or equivalent) to obtain relevant workplace experience in Engineering under the supervision of professional engineers in one company or more.

200719.2 Industrial Relations and Workplace Change

Credit Points 10 **Level** 7

Equivalent Units

46525 - The Industrial Relations Process.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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Industrial Relations and Workplace Change is designed to equip current and future employment relations professionals and practitioners with the knowledge necessary to analyse and implement the processes for workplace change and workplace-level bargaining. The understanding of workplace change covered in this unit includes an emphasis on rights, obligations and "voice". The unit focuses on workplace change problem solving for employee engagement and dispute resolution in both local and global workplace change contexts.

300724.2 Industry Based Learning

Credit Points 0 **Level** 5

Equivalent Units

BG311A - Industry Based Learning

Unit Enrolment Restrictions

Students must be enrolled in Bachelor of Construction Management, Bachelor of Building Design Management or Diploma in Building Design Management/Bachelor of Building Design Management.

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Students are required to undertake 1200 hours industry based experience as required by course and professional accreditation bodies.

300128.5 Information Security

Credit Points 10 **Level** 3

Assumed Knowledge

Basic understanding of data structures, number theory and probability theory. Basic programming skills in C, C++, java, etc.

Prerequisite

200025.2 Discrete Mathematics AND **300103.3** Data Structures and Algorithms OR **300581.4** Programming Techniques OR **300903.1** Programming Techniques (Advanced)

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Information Security is concerned with the protection and privacy of information in computer systems. The focus is primarily on introducing cryptography concept, algorithm and protocol in information security and applying such knowledge in the design and implementation of secure

computer and network systems. The unit also addresses conventional and public key encryption, number theory and algebra and their application in public key encryption and signature. Students will learn the application of cryptography algorithm in current computer systems and information security management. This unit also provides students with the practical experience around security programming.

300572.2 Information Systems Deployment and Management

Credit Points 10 **Level** 3

Assumed Knowledge

A general understanding of various Information Systems in the eBusiness environment - familiarity with information system development processes

Prerequisite

300580.2 Programming Fundamentals AND **300585.2** Systems Analysis and Design

Equivalent Units

300272 Enterprise Information Management

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This unit provides a detailed overview of system implementation and deployment stages taking into consideration the steps that are necessary to place a newly developed system into production. In this unit students learn the skills required for accurate requirements gathering, timely and effective system development, and successful implementation that would result in effective system performance. For this to be achieved successfully this unit also addresses the importance of project management skills. The unit also highlights the issues of transition processes after the development phase, the activities required in systems support and maintenance in the system's operational stage.

300573.2 Information Systems in Context

Credit Points 10 **Level** 1

Assumed Knowledge

2 Unit Mathematics and 2 Unit English (General)

Equivalent Units

700000 Information Systems in Context (WSTC)

Incompatible Units

200128 Introduction to Information Systems

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This unit aims to give students the ability to recognise and explain business information systems with regard to type, function, purpose, and the frameworks within which these systems are used. Topics in this unit include computing fundamentals; computer hardware and software; computers and society; use of business application packages - spreadsheets, word processing, database, graphics; organisational information systems; information systems development and acquisition; data and knowledge management; electronic commerce, internets, extranets; networking; enterprise-wide information systems; the internet and information systems security; privacy, ethics and computer crime.

700000.5 Information Systems in Context (WSTC)

Credit Points 10 **Level** 1

Prerequisite

Students enrolled in 7138 Diploma in Information and Communications Technology Extended - ICT, 7139 Diploma in Information and Communications Technology Extended or 7140 Diploma in Information and Communications Technology Extended – Information Systems must pass 700276 Academic and Professional Communication (WSTC Prep) and 700205 Academic Skills for ICT (WSTC Prep).

Equivalent Units

300573 - Information Systems in Context

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

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This unit aims to give students the ability to recognise and explain business information systems with regard to type, function, and purpose, and the frameworks within which these systems are used. Topics in this unit include computing fundamentals; computer hardware and software; computers and society; use of business application packages – spreadsheets, word processing, database, graphics; organisational information systems; information systems development and acquisition; data and knowledge management; electronic commerce, internets, extranets; networking; enterprise-wide information systems; the internet and information systems security; privacy, ethics and computer crime.

700278.1 Information Technology in Business (WSTC Prep)

Credit Points 10 **Level** Z

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

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This unit introduces basic business concepts and how Information Systems can be used in Business. It also deals with Systems Analysis and Design, and Database Design and Development concepts. These concepts are introduced using a variety of case studies to provide authentic learning opportunities.

400286.4 Injury Prevention

Credit Points 10 **Level** 3

Prerequisite

400867.2 Approaches to Health Promotion

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Injury Prevention is a National Health Priority. Injury is the preferred term rather than 'accident' with its connotations of inevitability and lack of apparent cause, to promote development of inter-disciplinary prevention initiatives. An evidence based scientific approach to injury research and prevention is well established for road and occupational safety, supported by well resourced implementation structures. Other settings/sectors include sport, recreation, falls, firearms, farm, product and water safety, which are also seeing the benefits of injury prevention principles, but are less well developed. Injury prevention principles include thorough analysis of current data and the literature to identify what works to reduce injury rates, also use of intervention strategies termed the 4Es, (education, enforcement, engineering and environment).

200919.1 Innovation and Professional Practice

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 80 credit points. The Spring Composite unit offering is only available to students who have been approved for a student grant under the New Colombo Plan Mobility Program. Any non-NCP students who enrol in this offering will be transferred by the School to the relevant Day or Evening offering.

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Innovation and Professional Practice uses design thinking to develop participants' capacity to innovate across a range of changing organisational environments and future-oriented work roles. Networking, collaboration and team work around contemporary projects will develop the attitudes and abilities characteristic of ways that professionals lead and contribute to innovation in many contexts. The unit builds on study of organisation and leadership in the Bachelor of Business, and develops participants' innovative thinking through the prism of business acumen. The unit supports work integrated learning approaches that will enable participants to develop portfolio evidence of their professional capacity to lead and participate in sustainable business change.

301072.3 Innovation Lab

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

This unit is designed for students who are enrolled in the Bachelor of Applied Leadership and Critical Thinking (BALCT) or other advanced courses at Western Sydney University. Students must have a minimum GPA of 5 and must have successfully completed a minimum of 40 credit points. Enrolment in this unit is at the discretion of The Academy or the Dean.

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This unit is designed for high-achieving students who may be enrolled in Advanced degrees or the Bachelor of Applied Leadership and Critical Thinking. Technology is rapidly changing and improving. As such, continuous innovation is essential to ensure applicability into the future. The unit focuses on innovation and entrepreneurship by pushing

boundaries, experimenting, learning from mistakes, and adapting to find new ways of approaching technical and social problems. In this unit, students will be empowered to design and develop innovative processes that provide solutions for real-world challenges.

200845.2 Innovation Through Digital Technology

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course or be enrolled in the Master of Information and Communications Technology (Advanced), Master of Information and Communications Technology, Master of Chinese Cultural Relations, Graduate Certificate in Chinese Cultural Relations, Graduate Diploma in Chinese Cultural Relations or Master of Research.

Special Requirements - Essential Equipment

Prescribed text, stationery, access to computer, Internet and Library.

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Business innovation in the Digital Economy recognises that current economic development and leadership is based on digitisation of the global economy. This unit provides a framework for understanding management issues, business development and technology use and change in the areas of innovation and digital business. The unit introduces students to various digital technologies and applications that companies need to address for creating new business opportunities in the fast changing global business environment. Students will develop an appreciation of digital business as a form of organisational innovation and the importance of innovation in the digital economy. Students will learn to formulate a digital business strategy for an organisation and understand various issues involved in digital business innovation. Students will be exposed to the University's business and technology incubator environment.

200852.2 Innovation, Creativity and Foresight

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course or be enrolled in the Master of Information and Communications Technology (Advanced), Master of Information and Communications Technology, Master of Research or or Master of Science – Food Science Specialisation.

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Creativity is a systematic, logical process mixing imaginative and creative thinking. Ideation is a process for forming and relating ideas derived through creativity. Innovation seeks to take ideas through invention and entrepreneurial processes to create new economic and social value. Students will be exposed to a variety of brainstorming, creativity and foresight methods and tools, with emphasis on scenario planning methods. Students will be introduced to workshop development, moderation and management approaches and methods. Selected key themes on economic, social, technological, and sustainable

development for Australia over the next 10-30 years will be analysed and developed through a scenario planning workshop process, with outputs mapped to business and social innovation and entrepreneurship thinking, and platforms. Students will also be exposed to creativity and foresight methods used by the Western Sydney University Launch Pad Business Technology Incubator.

200917.1 Innovation, Enterprise and Society

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 80 credit points.

Innovation, Enterprise and Society focuses on forces driving innovation, creativity and technical change at the levels of entrepreneurship, enterprise, economy and society. It also examines the effects of innovation at these various levels. This unit is a professional core unit in the Bachelor of Business. The unit takes a multi-disciplinary approach utilising critical thinking, debates, problem solving, policy analysis and case studies. Students will understand the professional, social, public policy and global networks and systems informing and surrounding innovation. Successful completion of the unit equips students to appreciate the entrepreneurial, political and social dimensions of innovation.

300899.1 Inorganic Chemistry

Credit Points 10 **Level** 2

Prerequisite

[300800.1](#) Essential Chemistry 1 OR [300808.1](#) Introductory Chemistry

Incompatible Units

300230 - Inorganic Chemistry 2, 300545 - Coordination Chemistry

Special Requirements - Essential Equipment

Students will require laboratory coat, appropriate shoes and eye protection in this unit.

This unit introduces students to a thorough study of coordination chemistry (discussing complexes, ligands, structure, isomerism, stability, reaction mechanisms, oxidation states, elements in the first transition series, coordination chemistry in biological systems). The unit then moves on to areas of fundamental inorganic chemistry, including bonding, and solid state chemistry. Advanced Modules cover the following topics: spectroscopy in coordination complexes, physiology and inorganic chemistry, and medicinal inorganic chemistry. This unit also introduces many of the laboratory techniques and equipment that are used in synthetic procedures in coordination chemistry.

300075.4 Instrumentation and Measurement

Credit Points 10 **Level** 3

Prerequisite

[300005.2](#) Circuit Theory

This unit covers all topics associated with the measurement of physical quantities and the instrumentation required to accurately present this information to a controller. Transducers used to measure common physical quantities are presented in detail, while instrumentation includes a detailed analysis of zero-span circuits, Wheatstone bridges, Instrumentation amplifiers, isolation amplifiers, voltage-to-current and voltage-to-frequency modules used for faithful signal transmission, digital-to-analog and analog-to-digital circuits. The application of these modules in modern measurement equipment-multimeters, digital CROs and PLC/PC interfacing modules is discussed.

300515.4 Instrumentation and Measurement (PG)

Credit Points 10 **Level** 7

Assumed Knowledge

Assumed knowledge for 300515 Instrumentation and Measurement (PG) is: 1) Basic electronics including amplifier, circuit theory and circuit design; 2) A basic understanding of statistics. Computational skills (SPICE) and a basic understanding of circuit simulation are desirable.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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

300931.1 Integrated Science

Credit Points 10 **Level** 2

Equivalent Units

300661 - Integrated Science, 300664 - Science in Society, 700096 - Integrated Science (WSTC)

Science and the scientific process of discovery have been successful in offering explanations for the world we live in. Due to scientific advances, we have eradicated some disease, explored the moon and the deepest parts of our oceans and created communication across distances on the planet previously unimaginable. We now face the major challenge of creating a future world which is sustainable for life on Earth. Solving our contemporary complex human and environmental issues to create a sustainable future, however, requires integrative and multidisciplinary research frameworks, an understanding of the relationship between science and society including cultural, social, economic and political and ethical factors. Students will critically examine such perspectives in a series of contemporary 'real-life' case studies such as climate change, medical breakthroughs, biodiversity loss, environmental sustainability and human-animal interactions. They will undertake research into the relationship of science

integrated with society, and the uncertainty and bias of evidence in decision making.

700096.3 Integrated Science (WSTC)

Credit Points 10 **Level** 2

Assumed Knowledge

Oral and written communication skills

Equivalent Units

300661 - Integrated Science 1, 300664 - Science in Society, 300931 - Integrated Science

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

Special Requirements - Essential Equipment

Students are required to have safety glasses, laboratory coat and laboratory book.

Science and the scientific process of discovery have been successful in offering explanations for the world we live in. Due to scientific advances, we have eradicated some disease, explored the moon and the deepest parts of our oceans and created communication across distances on the planet previously unimaginable. We now face the major challenge of creating a future world which is sustainable for life on Earth. Solving our contemporary complex human and environmental issues to create a sustainable future, however, requires integrative and multidisciplinary research frameworks, an understanding of the relationship between science and society including cultural, social, economic, political and ethical factors. Students will critically examine such perspectives in a series of contemporary 'real-life' case studies such as climate change, indigenous health, medical breakthroughs, biodiversity loss, environmental sustainability and human-animal interactions. They will undertake research into the relationship of science integrated with society, and the uncertainty and bias of evidence in decision making. They will demonstrate their understanding by analysis of a contemporary issue by producing a scientific report and a powerpoint or video.

401109.1 Integrating Research into Physiotherapy Practice

Credit Points 10 **Level** 4

Prerequisite

400865.2 Evidence-Based Practice OR **400944.1** Evidence-Based Practice (Advanced) AND **400985.2** Clinical Education A (Acute Care) OR **401110.1** Clinical Education B (Rehabilitation) OR **401111.1** Clinical Education C (Ambulatory Care) OR **401112.1** Clinical Education D (Paediatrics)

Incompatible Units

401050 - Integrated Research into Physiotherapy Practice

Unit Enrolment Restrictions

Students must be enrolled in 4706 Bachelor of Physiotherapy or 4707 Bachelor of Physiotherapy (Honours)

In this unit, students will further develop their evidence based practice skills and knowledge by applying it in practice settings. This will involve applying the academic knowledge and skills from three prior evidence based practice and research units by synthesising it with their clinical experience and skills. Students will be allocated a topic area from which they will identify a clinical "problem" or health-related issue. Students will then plan and design a robust research project to answer this question. Students will be expected to reflect on the barriers and facilitators of evidence-based practice, and develop strategies and interventions to be used to facilitate the implementation of evidence in practice by clients and health care practitioners. This unit also involves students developing leadership and educator skills by facilitating and participating in a journal club.

101950.1 Intercultural Communication

Credit Points 10 **Level** 3

Equivalent Units

101454 - Intercultural Pragmatics

This unit aims to develop the communicative competence of students in intercultural contexts and raise their awareness of issues in the use of languages. It helps the students understand hidden socio-cultural dimensions and equips them with the knowledge and skills necessary for intercultural communication. It also prepares them to critically analyse linguistic and cultural differences around them, appreciate linguistic and cultural diversity, and integrate the unit contents into their future careers. The impact of intercultural communication is highlighted in a range of real-life sectors, such as second language teaching and learning, translation and interpreting services, international business, tourism, community services, and organisational communication. Lectures will be delivered in English and depending on demand, language-specific tutorials will be delivered in Arabic, Chinese, Indonesian and Japanese as well as English.

200948.1 International Banking and Finance Law

Credit Points 10 **Level** 7

Assumed Knowledge

Completed a law degree (Bachelor of Laws or Juris Doctor) or equivalent in any jurisdiction, including specific knowledge of Contracts Law, Corporations Law, Commercial Law and Property Law.

Unit Enrolment Restrictions

Students must be enrolled in course 8083 Bachelor of Research Studies, 8084 Master of Research - HC, 8085 Master of Research - LC or a postgraduate course from the School of Law. Students enrolled in other courses must obtain permission to enrol in this unit.

This unit is set in the background of the aftermath of the Global Financial Crisis of 2008. It examines the role of financial institutions, financial instruments, financial regulators, and national and international regulatory efforts in a borderless world. Topics covered include: international banking and capital markets, infrastructure of financial markets including the payment and clearance system, derivative instruments (SWAPS, futures, and Options), Asset securitisation, Mutual and Hedge Funds, secured credit, syndicated loans and project financing, and the role of Central Banks and the Bank for International Settlements and the capital adequacy requirements.

200590.2 International Business Project

Credit Points 10 **Level** 3

Assumed Knowledge

This is a capstone International Business unit. It is assumed that students have basic international business knowledge and research skills.

Prerequisite

200591.2 Introduction to International Business

Equivalent Units

61125 - International Business Project 1

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This is a capstone unit in International Business. The aim of the unit is to give students a real-life action learning project in which they undertake an international business strategic planning and analysis exercise for a client organisation. This project usually involves students working in small teams for a client organisation under the direct supervision of the lecturer.

200626.2 International Business Strategy

Credit Points 10 **Level** 3

Assumed Knowledge

An understanding of the basic principles of marketing and international business.

Prerequisite

200083.2 Marketing Principles OR **200591.2** Introduction to International Business

Equivalent Units

61119 - International Business Strategy

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In an environment where operating internationally is becoming the norm rather than the exception, firms are faced with ever increasing complexity when formulating their business strategy. This requires an understanding of how firms become and remain international, the basic modes of international involvement, the practice of multinational management and how firms can establish a balance between the sometimes conflicting demands of headquarters, the subsidiary and the governments of all the countries where the multinational enterprise operates. This unit will cover these issues and will deal with both large and small companies that must be global to survive.

200949.1 International Climate Change Law

Credit Points 10 **Level** 7

Assumed Knowledge

Completed law degree (Bachelor of Laws or Juris Doctor) or equivalent in any jurisdiction.

Corequisite

200901.1 Legal Philosophy and Methodology

Unit Enrolment Restrictions

Students must be enrolled in course 2784 or 2810 Master of Laws (International Governance), 8083 Bachelor of Research Studies, 8084 Master of Research - HC or 8085 Master of Research - LC.

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This unit examines the current international legal frameworks and discussion of future climate change scenarios. It will explore the legal, political and scientific challenges in addressing and responding to climate change. It will illustrate how international climate change law interacts with national law, including private sector involvement, but its principal focus is not on domestic law regimes. Market and non-market mechanisms such as emission trading systems, carbon taxes, new technologies and renewable energy targets will be examined.

200962.2 International Criminal Law and Justice

Credit Points 10 **Level** 7

Assumed Knowledge

Bachelor of Laws or equivalent qualification

Unit Enrolment Restrictions

Students must be enrolled in 8083 Bachelor of Research Studies/Master of Research, 8084/8085 Master of Research, 2784 or 2810 Master of Laws (International Governance).

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This unit analyses the state of international criminal law and its place in the modern international legal system in light of important recent developments. It discusses why a State's national criminal laws should accord with international developments. It focuses on substantive and procedural law and examines relevant international legal concepts, general principles of international criminal law, and how international criminal tribunals function. It considers particular international crimes, participation in such crimes, defences, and important recent cases such as those of Augusto Pinochet and Slobodan Milosevic.

200907.3 International Environmental Law and Policy

Credit Points 10 **Level** 7

Assumed Knowledge

Bachelor of Laws or equivalent qualification.

Unit Enrolment Restrictions

Students must be enrolled in course 2784 or 2810 Master of Laws (International Governance), 8083 Bachelor of

Research Studies, 8084/8085 Master of Research or the Master of Science.

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This unit provides an overview of international environmental law and policy. It investigates legal and policy measures for managing and protecting the environment in a sustainable manner. The unit will begin by exploring the economic, political, and legal concepts relevant to international environmental legal regimes. It will then apply these concepts to concrete regimes designed to deal with specific international environmental problems, such as climate change, ozone depletion, air pollution, hazardous waste, freshwater resources, marine pollution, world heritage, human rights, biodiversity and habitat loss. The unit focuses principally on the dynamic of treaties, negotiations, and state and non-state actors in the international arena. Special attention will be given to 21st Century environmental problems. Appropriateness of the present environmental legal regimes and challenges for the future will also be mooted in the unit.

200055.5 International Finance

Credit Points 10 **Level** 3

Prerequisite

200488.3 Corporate Financial Management

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The study of international finance from the vantage point of a multinational enterprise provides students with a global insight into international trade for both manufactured and financial products. The unit recognises the increasing importance of global integration of money and capital markets - a trend that is creating expanded opportunities for both investors and organisations that need to raise capital. The recognition and management of risks associated with international operations are explored including cost of capital and financial structure, international financial markets crisis, international financial management, international monetary system, international diversification, foreign exchange risk management including the use of futures and options, foreign investment analysis, determination of exchange rates, balance of payments analysis, international debt crisis and country risk analysis.

51211.3 International Finance

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course.

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This unit provides a comprehensive analysis and coverage of contemporary international finance by describing the international financial system, institutions and market practices; international finance theorems and their application; Euromarkets; international borrowing, lending and capital sourcing; measurement of foreign exchange risk; managing foreign exchange exposure; foreign currency derivatives, international investment; and globalisation and the MNC.

200621.3 International Human Resource Management

Credit Points 10 **Level** 3

Prerequisite

200300.2 Managing People at Work

Equivalent Units

61472 - International Human Resource Management

Unit Enrolment Restrictions

Students must be enrolled in 2773 Bachelor of Business Administration to enrol in the online offering. All other students must receive DAP approval.

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'International Human Resource Management' examines the implications for human resource management that arise from the internationalisation of organisations. Through portfolio reports and case studies, students analyse a range of comparative systems and structures of employment relations and the strategic management of global organisations. This analysis includes a focus on key human resource functions including recruitment, training, reward and evaluation of the impact of society, politics, economics and culture of host countries on human resource strategies. Students examine also the role of global stakeholders and assess the implications for human rights that arise from globalisation.

200961.1 International Human Rights Law

Credit Points 10 **Level** 7

Assumed Knowledge

Bachelor of Laws or equivalent qualification

Unit Enrolment Restrictions

Students must be enrolled in courses 8083 Bachelor of Research Studies/Master of Research, 8084/8085 Master of Research and 2784 or 2810 Master of Laws (International Governance).

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This unit examines the foundations of the concept of human rights under international law, how international law became concerned with the rights of individuals and the development of international measures for the protection of human rights. It examines the extent of compromise of international human rights where sovereignty, cultural relativism and political resistance preclude comprehensive incorporation of some fundamental human rights principles in domestic law. Instruments such as The Charter of the United Nations, The Universal Declaration of Human Rights, The International Covenant on Civil and Political Rights and International Covenant on Economic, Social and Cultural Rights are also examined.

200951.1 International Law of Ocean Governance

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge of law as contained in a law degree (Bachelor of Laws or Juris Doctor) or equivalent in any jurisdiction,

including specific knowledge of Contracts Law, Corporations Law, Commercial Law and Property Law.

Unit Enrolment Restrictions

Students must be enrolled in course 2784 or 2810 Master of Laws (International Governance), 8083 Bachelor of Research Studies, 8084 Master of Research - HC or 8085 Master of Research - LC.

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This unit examines the rules regulating the principle uses of the world's oceans. It explores the historical development and sources of contemporary law of the sea and the adoption of the 1982 Convention on the Law of the Sea (UNCLOS). Legal regimes of various maritime zones including territorial sea and contiguous zone, continental shelf, the exclusive economic zone and the high seas will be studied. Various sources of marine pollution, fisheries, marine scientific research, maritime spatial planning, maritime safety and security, mining of deep sea beds and dispute settlement will also be explored in this unit.

200094.4 International Marketing

Credit Points 10 **Level** 3

Assumed Knowledge

Students should have a good understanding of marketing research, brand management and the foundations of economics.

Prerequisite

200083.2 Marketing Principles OR **200591.2** Introduction to International Business

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Marketing internationally has become a necessity for many firms that wish to survive and grow in today's dynamic and increasingly linked world economy. International Marketing is concerned with understanding and successfully managing the different international economic, cultural, political and legal environments as they affect the marketing activities of companies. International Marketing examines the role of marketing research, international finance, overseas market entry and expansion strategies and the marketing mix in international markets. On completion of this unit students will have acquired a sound theoretical basis and, particularly, a practical understanding of how companies operate in international markets.

102189.1 International Organisations and Global Governance

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit addresses the competing concepts inherent in global governance through an examination of the existing international society of states whose principle is based on respect for state sovereignty. It also addresses the complex process of global governance in which states, non-governmental organisations, multinational corporations, and intergovernmental organisations participate and pursue

their goals. It will specifically look at the complex role of the United Nations, the United Nations Security Council, and the role of international organisations aimed at addressing issues, such as security, human rights, humanitarian intervention, trade, the environment, health, migration, and labour rights.

102190.1 International Relations of Southeast Asia

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit focuses on the key international relations issues and challenges facing the Southeast Asian region in the 21st century. Commencing with the historical issues that have shaped the nations of Southeast Asia it will then consider the issues, such as the war on terrorism; the economic demands of globalism; maritime security; and social and political demands centred around issues such as democracy, human rights, the environment, and transnational crime. Finally, it will consider the shifting power structure within the Asian region and whether this will result in Southeast Asia gaining genuine autonomy and the impact this has on regionalism.

200963.1 International Space Law - Commercial Aspects

Credit Points 10 **Level** 7

Assumed Knowledge

Completed a law degree (Bachelor of Laws or Juris Doctor) or equivalent in any jurisdiction

Incompatible Units

200220 - International Criminal Law

Unit Enrolment Restrictions

Students must be enrolled in courses 2784 or 2810 Master of Laws (International Governance) or Masters of Research (suite) 8083, 8084 or 8085.

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This unit examines the underlying legal principles that regulate the use, exploration and exploitation of space, and how International Law can and should be applied to the many different State and private commercial uses of outer space. It examines the existing international legal regime - the five United Nations Space Treaties and key Declarations of Principles related to space activities - as well as a number of domestic regulatory systems, including the Australian legal regime. The unit also concentrates on the (many) uses and proposed uses of space for which the legal framework may not be particularly well suited.

102193.1 International Special Study

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit provides students with opportunities outside the usual classroom experience. It is designed particularly for students who (1) enrol in short-course study tours, and/or (2) who take a placement within an international workplace. Several UWS partner institutions (e.g., the University of Seoul) run annual short-course study programs. With regard to placements (internships), students must seek a placement that connects directly with their areas of study.

102522.1 International Study Tours

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit provides students with opportunities outside the usual classroom experience. It is designed particularly for students who (1) enrol in short course study tours and/or (2) take a placement with an international workplace. A number of WSU partners (i.e. University of Seoul and Meiji University) offer short course study programs. With regards to placements (internships), students must seek a placement that connects with their areas of study.

301175.1 Internet of Things

Credit Points 10 **Level** 7

Assumed Knowledge

Students should be familiar with the fundamentals of computer networking. In particular, they should have a good understanding of the TCP/IP protocol suite, and current networking and wireless technologies. Therefore, it is strongly advisable that the students must have either taken an appropriate unit in computer networking (e.g., 300695 Network Technologies), or have equivalent knowledge.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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The Internet of Things (IoT) is drastically changing the way organisations operate and how individuals interact with the world. IoT is an infrastructure consisting of fairly constantly communicating objects, or things, that may be smart and process or act on data. The IoT facilitates detailed and meaningful interactions between humans, digital devices, and many other industrial and household equipment, appliances, and things. The IoT is also the enabler of smart environments, including smart homes, buildings, cities, transport, and healthcare, among many others. This unit discusses IoT technologies and applications in detail. It also introduces the students to trends, challenges, and key research topics in relevant areas.

300130.4 Internet Programming

Credit Points 10 **Level** 3

Assumed Knowledge

Basic knowledge on internet browsing and any object-oriented programming language.

Prerequisite

300147.4 Object Oriented Programming OR **300581.4** Programming Techniques OR **300027.2** Engineering Computing OR **300903.1** Programming Techniques (Advanced)

Equivalent Units

300246 - Internet Computing

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This unit offers students basic concepts and latest technologies of internet programming and web-based application development. Utilising one of the popular internet programming languages, such as Java, it aims to develop the programming skills and methodologies required for both client-side and server-side programming as well as general purpose programming. The range of topics covered by the unit includes HTML, XML, Java applets, desktop application in Java, servlets, JavaServer Pages and JDBC.

102212.2 Internship and Community Engagement

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Students must have a minimum GPA of 5.0 and must have completed 40 credit points of study. Enrolment in this unit is at the discretion of the Director of Academic Program and/ or Head of The Academy.

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The aim of this unit is to provide second/third year Academy students with an opportunity to develop professional identity through exposure to workplaces, community settings or research processes related to their chosen field of study. Students will be encouraged to identify, examine and discuss the multiplicity of leadership factors in such environments while providing work experience. This is a cross-disciplinary unit that will employ experiential learning to achieve the learning outcomes. This placement will be chosen by the student in consultation with staff of The Academy and will be undertaken either as an individual or part of a project team.

800176.2 Internship and Community Engagement (PG)

Credit Points 10 **Level** 7

Prerequisite

800166.1 Research Design 1: Theories of Enquiry

Unit Enrolment Restrictions

Students must be enrolled in 8083 Bachelor of Research Studies/Master of Research, 8084 Master of Research (High Cost) or 8085 Master of Research (Low Cost). Students must have organised and confirmed their own internship or work placement before enrolling in the unit.

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The aim of this unit is to provide Master of Research students with an opportunity to develop professional identity through exposure to workplaces, community settings or research processes related to their chosen field of study.

Students will need to apply the knowledge and skills that they have developed to this internship or engagement activity. This is a cross-disciplinary unit that will employ experiential learning to achieve the learning outcomes. This placement will be chosen by the student in consultation with staff of Graduate Research School and will be undertaken either as an individual or part of a project team.

700287.1 Interpreting Data In Science (WSTC Prep)

Credit Points 10 **Level** Z

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

Science is a way of knowing about the world. It is a process of discovery whose product, an evolving body of scientific knowledge and technology, is a significant determinant of modern Western societies. Engaging with the content, process, and social functions of science requires foundational scientific literacy, including the ability to access multiple textual forms, to construct meaning, and to critically evaluate new information in a scientific framework. In this unit students will develop skills in scientific literacy through undertaking case studies of contemporary relevance. Emphasis is placed on key competencies in scientific academic writing – collecting, analysing, organising, interpreting and communicating information – as well as solving problems related to mathematical ideas and techniques.

300825.2 Introduction to Anatomy

Credit Points 10 **Level** 1

Assumed Knowledge

HSC Biology

Equivalent Units

300319 - Introduction to Anatomy and Histology, 300752 - Introduction to Anatomy and Histology, 300778 - Introduction to Anatomy, 700097 - Introduction to Anatomy (WSTC)

Incompatible Units

300361 - Introduction to Human Biology, 400130 - Human Medical Sciences 1, 400256 - Human Medical Sciences 2, 400134 - Human Medical Sciences 3, 400868 - Human Anatomy & Physiology 1, 400869 - Human Anatomy & Physiology 2

Unit Enrolment Restrictions

Due to space and resource limitations, this unit will be restricted to students enrolled in 3673 Bachelor of Medical Science and 3682 Bachelor of Medical Science (Advanced), 3562 - Bachelor of Science (Advanced Science), 3589 - Bachelor of Science (Forensic Science)

This unit provides a basic understanding of human anatomy. It undertakes this by utilising a systems approach (in contrast to a regional approach), emphasising the special relationship between form and function.

401077.1 Introduction to Biostatistics

Credit Points 10 **Level** 7

Assumed Knowledge

High school mathematics (arithmetic, formulas and algebra, reading graphs)

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Most professions in the health sciences need to read and interpret statistics relating to individual health status, interpret health risks in communities, and engage in the evaluation of interventions, or impact of health policies or programs. Many public health practitioners are actively involved in surveillance, quantitative research and/or evaluation. This unit provides students with the fundamental skills they need to analyse and interpret results from quantitative data collections. Content includes descriptive statistics, undertaking comparisons between groups, quantifying associations between variables, and statistical power. The unit is highly applied with the main focus being on interpretation and appraisal of statistical results and conducting analyses using statistical software.

401173.1 Introduction to Clinical Epidemiology

Credit Points 10 **Level** 7

Assumed Knowledge

A background in health care is desirable

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

This unit aims to impart the principles of population based (epidemiologic) evidence to the understanding of variations in the outcome of illness and the reasons thereof (Clinical Epidemiology) thereby providing the framework for finding the best answers to "real world" questions about clinical practice and health care. Individuals taking this course (who usually have a health care background) acquire the basic skills required to understand the fundamental questions about the effectiveness of clinical therapies, usefulness of screening and diagnostic tools, prognosis and disease causation and gain the skills required of effective EBM practitioners.

301203.1 Introduction to Cloud Computing

Credit Points 10 **Level** 3

Prerequisite

300565.2 Computer Networking OR **300946.1** Computer Networking (Advanced)

This unit, the first half of Amazon Web Services (AWS) Academy Cloud Computing Architecture curriculum, provides deep understanding of fundamental cloud computing concepts and how it can be applied to build cost-effective; highly available and fault tolerant systems. Students will learn concepts including system virtualisation;

virtual machines; cloud networks; basic cloud storage and cloud databases; security in clouds; and auto-scaling, load balancing, and monitoring. All these aspects are explored in practice with AWS services.

101560.3 Introduction to Crime and Criminal Justice

Credit Points 10 **Level** 1

Equivalent Units

102709 - Introduction to Criminal Justice, 400680 - Crime and Criminal Justice, 700127 - Introduction to Crime and Criminal Justice (UWSC)

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In 2019 this unit replaced by 102709 - Introduction to Criminal Justice. This unit provides an introduction to the study of criminal justice from a critical criminological perspective. How crime is measured and explained, who are identified as criminals or victims, and how to effectively respond to crime is not straightforward. The unit examines the workings of the criminal justice system, and analyses how police, courts and corrections influence the processes of criminalisation and victimisation, and the societal context in which this occurs. The unit looks at other forms of control and prevention beyond those of the criminal justice system.

102709.1 Introduction to Criminal Justice

Credit Points 10 **Level** 1

Equivalent Units

400680 - Crime and Criminal Justice, 700127 - Introduction to Crime and Criminal Justice (WSTC), 101560 - Introduction to Crime and Criminal Justice.

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How crime is measured and explained, who are identified as criminals or victims, and how to effectively respond to crime is not straightforward. The unit examines the workings of the criminal justice system, and analyses how police, courts and corrections influence the processes of criminalisation and victimisation, and the societal context in which this occurs. The unit looks at other forms of control and prevention beyond those of the criminal justice system.

301071.2 Introduction to Critical Thinking

Credit Points 10 **Level** 1

Unit Enrolment Restrictions

Students must have a minimum GPA of 5 and be enrolled in The Academy at Western Sydney University; i.e. students enrolled in the Bachelor of Applied Leadership and Critical Thinking or other advanced courses at the discretion of the Academy or the Dean.

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This unit is designed for high-achieving students who may be enrolled in Advanced degrees or the Bachelor of Applied Leadership and Critical Thinking. This unit provides students with an opportunity to understand and develop high-level critical thinking skills; skills that are essential for success in occupations now and in the future. Students will engage with theoretical frameworks and concepts using an interdisciplinary approach, inspiring students to think and

act outside the silos of their disciplines. Throughout the unit, students will consider how they think as opposed to how they think they think (biases and heuristics). They will also develop an understanding of the importance of critical thinking and ways to suppress a tendency to rationalise.

301033.1 Introduction to Data Science

Credit Points 10 **Level** 2

Assumed Knowledge

Computer Programming.

Prerequisite

For students NOT enrolled in 3734 Bachelor of Data Science - 300700 Statistical Decision Making or 200263 Biometry or 200032 Statistics for Business

Corequisite

For students enrolled in 3734 Bachelor of Data Science - 301108 Thinking About Data.

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Analysis of data is essential for scientific investigation, modelling processes and predicting future events. Data Science is the investigation of the tools required that allow us to perform this modelling and prediction. The increase in accessible data over the past few decades has promoted the use of Data Science, making it a desired skill in many professions. In this unit we further investigate the methods of regression, clustering and classification that form the basis of a data scientist's toolbox.

200052.6 Introduction to Economic Methods

Credit Points 10 **Level** 1

Assumed Knowledge

HSC Mathematics or equivalent

Equivalent Units

61301 - Introduction to Economic Methods, 200032 - Statistics for Business, 300700 - Statistical Decision Making, 700041 - Statistical Decision Making (UWSC), 301123 - Management Analytics

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Introduction to Economic Methods covers basic concepts in mathematics and statistics to help student understanding of subjects such as accounting, management, marketing, finance, and economics. Students taking this unit are expected to improve their numeracy and analytical skills. In particular, students will learn how to collect, analyse and interpret data using simple descriptive and inferential statistical methods including simple regression analysis. In addition, by working through applied exercises, students are expected to improve their problem solving skills and acquire a basic understanding of calculus relevant to fields such as finance.

700114.2 Introduction to Engineering Business Management (WSTC AssocD)

Credit Points 10 **Level** 1

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College in 7022 Associate Degree in Engineering

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This unit will cover aspects of modern engineering business management. This unit of study will provide students an opportunity to look at small, medium and large Engineering businesses and the role of Engineering Associates in those organisations.

300964.1 Introduction to Engineering Practice

Credit Points 10 **Level** 1

Equivalent Units

300461 Engineering and Industrial Design Practice, 300034 Introduction to Professional Practice, 300674 Engineering Design and Construction Practice, 700038 Engineering Design and Construction Practice, 700107 Engineering Design and Construction Practice, 700148 and 700149 Introduction to Engineering Practice.

Special Requirements - Essential Equipment

Drawing software such as AutoCAD or Solid Works

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This unit encourages students to explore the professional responsibilities and challenges faced by Engineers. Students are introduced to emerging issues and approaches in the engineering profession, with particular attention given to using a systems approach to solve engineering problems. Students engage in a semester-long research and problem solving task that addresses technical, environmental and social sustainability imperatives and fosters fundamental research, communication skills. Special emphasis is placed on lifelong learning, academic literacy and professional skills including information literacy, project management, engineering drawing and teamwork which equip students for subsequent academic and professional pursuits.

700149.2 Introduction to Engineering Practice (WSTC AssocD)

Credit Points 10 **Level** 1

Equivalent Units

300674 Engineering Design and Construction Practice, 300964 Introduction to Engineering Practice, 700038 Engineering Design and Construction Practice, 700107 Engineering Design and Construction Practice, 700148 Introduction to Engineering Practice

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College in 7022 Associate Degree in Engineering

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This unit encourages students to explore the professional responsibilities and challenges faced by Engineers. Students are introduced to emerging issues and approaches in engineering profession, especially particular attention will be given to systems approach. Students engage in a term-long research and problem solving task that addresses technical, environmental and social sustainability imperatives and fosters fundamental research, communication skills. Special emphasis is placed on lifelong learning, academic literacy and professional

skills including information literacy, project management, engineering drawing and teamwork which equip students for subsequent academic and professional contexts.

700148.2 Introduction to Engineering Practice (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

300674 Engineering Design and Construction Practice, 300964 Introduction to Engineering Practice, 700038 Engineering Design and Construction Practice, 700107 Engineering Design and Construction Practice, 700149 Introduction to Engineering Practice

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

.....
This unit encourages students to explore the professional responsibilities and challenges faced by Engineers. Students are introduced to emerging issues and approaches in engineering profession, especially particular attention will be given to systems approach. Students engage in a term-long research and problem solving task that addresses technical, environmental and social sustainability imperatives and fosters fundamental research, communication skills. Special emphasis is placed on lifelong learning, academic literacy and professional skills including information literacy, project management, engineering drawing and teamwork which equip students for subsequent academic and professional contexts.

401076.1 Introduction to Epidemiology

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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Epidemiology is the study of the distribution and determinants of disease and other health-related conditions in populations, and the application of this study to the control of health problems. Epidemiology encompasses a broad range of activities fundamental to the health sciences. The course is aimed to equip students with the ability to understand and critically appraise evidence from the health sciences used in the formulation of clinical interventions, assessments of population disease burden, and development of health policy. Students will be taught the fundamental concepts and principles of epidemiology and will be given the opportunities through exercises and tutorials to apply these concepts and principles to case studies from current epidemiological research and practice.

100964.3 Introduction to Film Studies

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

The unit will introduce students to the key theoretical strands of film studies and key concepts in the analysis of film. The unit will explore techniques of narrative, performance, genre, realism and spectatorship, as well as introducing methods to analyse the use of editing, cinematography and sound. A case study of a key historical film movement or genre will introduce students to the study of cinema in its cultural contexts. The unit will also address the transformations in screen cultures as a result of digital technologies and new media.

300566.2 Introduction to Health Informatics

Credit Points 10 **Level** 2

Assumed Knowledge

Familiarity with use of common business software, eg word processing, spreadsheets, database.

Equivalent Units

700258 - Introduction to Health Informatics (WSTC)

This introductory unit aims to give the student an insight into the key knowledge and skill set required in the emerging domain of Health Informatics. Critical topics include: The Australian healthcare system, health care improvement modelling, health information systems and management, paper-based v's electronic health records, clinical documentation and data quality, health information management, consumer information security, privacy and ethics, decision support and clinical delivery support systems, healthcare data representation and interchange standards, telehealth and Information Communication technologies (ICT). This will be complemented by practical exercises and assessment support sessions. Through these experiences students will gain an understanding of the application of ICT to the healthcare domain and the skills necessary to play a pivotal role in the design and delivery of healthcare systems and health information management.

700258.1 Introduction to Health Informatics (WSTC)

Credit Points 10 **Level** 2

Equivalent Units

300566 - Introduction to Health Informatics

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in the Extended Diploma courses must have passed 40 credit points in order to enrol in this unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

This introductory unit aims to give the student an insight into the key knowledge and skill set required in the emerging domain of Health Informatics. Critical topics include: The Australian healthcare system, health care improvement modelling, health information systems and management, paper-based v's electronic health records, clinical documentation and data quality, health information management, consumer information security, privacy and ethics, decision support and clinical delivery support systems, healthcare data representation and interchange standards, telehealth and ICT technologies. This will be complemented by practical exercises and assessment support sessions. Through these experiences students will gain an understanding of the application of ICT to the healthcare domain and the skills necessary to play a pivotal role in the design and delivery of healthcare systems and health information management.

300361.3 Introduction to Human Biology

Credit Points 10 **Level** 1

Equivalent Units

400130 - Human Medical Sciences 1, 25009 - Physical and Biological Sciences 1, E1231 - Human Biology 1, 700061 - Introduction to Human Biology (WSTC)

Incompatible Units

300825 - Introduction to Anatomy, 300818 - Introduction to Physiology

Special Requirements - Essential Equipment

Closed footwear is required in the workshops for day classes (not required for online students).

This unit gives a basic understanding of the human body and introduces the scientific and medical terminology used for anatomy, physiology and biochemistry. It deals with gross structure and microscopic structure of the human body. It also examines microbial organisms, their classification, how they differ from eukaryotic cells and how our body defends against them. Where appropriate, examples of functional diseases will be discussed.

700061.3 Introduction to Human Biology (WSTC)

Credit Points 10 **Level** 1

Prerequisite

Students must pass 700190 - Fundamentals of Health Science (WSTC Prep) prior to enrolling in this unit (except for those enrolled in 7019 - Diploma in Health Science Fast Track or 7093 - Bachelor of Health Science Fast Track (WSTC First Year Program) as 700190 is not in the Fast Track course structure).

Equivalent Units

300361 - Introduction to Human Biology

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level

unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

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This unit gives a basic understanding of the human body and introduces the scientific and medical terminology used for anatomy, physiology and biochemistry. It deals with gross structure and microscopic structure of the human body. It also examines microbial organisms, their classification, how they differ from eukaryotic cells and how our body defends against them. Where appropriate, examples of functional diseases will be discussed.

301030.2 Introduction to Industrial Design Methods

Credit Points 10 **Level** 1

Equivalent Units

300034 Introduction to Professional Practice; 300461 Engineering & Industrial Design Practice; 300674 Engineering, Design & Construction Practice; 700038 Engineering, Design & Construction Practice; 700107 Engineering, Design & Construction Practice

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Professional practice across many disciplines has evolved toward a co-creative model where a better understanding of stakeholders, human and environmental contexts and the integration of an interdisciplinary approach is seen to accelerate multiple solution developments and innovation. Students are introduced to design research methods and professional design practice in three discovery projects gaining strategic problem solving and critical thinking skills as a core outcome. Special emphasis is placed on lifelong learning, academic literacy and professional skills including information literacy, leveraging knowledge sets, project management, designing for sustainable systems (guided by the global United Nations Sustainable Development Goals UNSDGs) and teamwork, all of which equip students for subsequent academic and professional contexts.

300134.2 Introduction to Information Technology

Credit Points 10 **Level** 1

Equivalent Units

B1582 - Introduction to Computers, J1742 - Computer Fundamentals, 61211 - Information Technology

Unit Enrolment Restrictions

Permission required for students enrolled in 3562 Bachelor of Science (Advanced Science).

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This introductory unit gives students an insight into the history, structure, operations and uses of computers, and their impact on society. This will be complemented by hands-on use of computers and popular application software packages in a graphical user interface environment. Students gain a basic understanding of the uses of computers, and the skills necessary to use popular applications software, including word processing,

spreadsheet and database packages, and Internet tools and services.

200591.2 Introduction to International Business

Credit Points 10 **Level** 1

Equivalent Units

61128 - International Business and Asian Environment

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This unit introduces students to the nature of international business operations in the world economy. The first part focuses on the basic concepts and theories of international trade, investment, and foreign exchange which form the foundation of a firm's international business activities. The second part is devoted to the economic, cultural, political and ethical environments and their effects on a firm's international business operations. The third and last part provides an overview of how the functional areas of business i.e. Marketing, production, human resource and finance are conducted in and affected by the multifaceted environment of an internationally oriented firm.

101956.1 Introduction to International Relations

Credit Points 10 **Level** 1

Equivalent Units

700268 - Foundations of Media Arts and Production (WSTC)

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This is a foundation unit for the major in International Relations and Asian Studies. As such, this unit will introduce students to key topics and debates in the field of International Relations (IR). The unit will familiarise students with leading IR theories and their explanation of political events, phenomena, and processes which cross the territorial boundaries of the state. Students will be exposed to the interplay between power, interest, ideas, identity, and resistance, in explaining continuity and change in international relations. The unit is designed to provide students with the analytical tools and intellectual frameworks needed to understand the behaviour of different international actors in contemporary global affairs.

100194.2 Introduction to Interpreting

Credit Points 10 **Level** 1

Assumed Knowledge

Proficiency in English and other language (LOTE) at native or near-native level

Equivalent Units

A1335 - Interpreting 1, A1336 - Interpreting 2, A3395 - Introduction to Interpreting

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This is a core unit for students in the Bachelor of Arts (Interpreting and Translation) course and an elective foundation unit for language key field of study in the BA. It introduces students to the theory and practice of Interpreting. Lectures are held in English for students of all the languages available. The tutorials are language specific

in Arabic, Japanese, Mandarin or Spanish. This unit requires native or near-native proficiency in English and one of the languages offered in the unit.

400244.3 Introduction to Leisure and Recreation Theory

Credit Points 10 **Level** 2

Introduction to Leisure and Recreation Theory introduces students to key concepts in leisure and recreation, particularly as they relate to health and well-being. Students will learn about models and theories that assist them in understanding leisure behaviours and recreation practices from various perspectives, but with a particular focus on insights from sociology and psychology. In particular, students are encouraged to identify, articulate, reflect upon, and value leisure in their own lives and the lives of others.

101945.2 Introduction to Linguistics

Credit Points 10 **Level** 1

Equivalent Units

100928 - Linguistics

Language is an integral component of human experience. This unit is designed to raise students' awareness of the nature, structures and functions of language and language use. Students will gain the conceptual tools to do basic analysis of language at the levels of phonology, morphology, syntax, semantics and pragmatics. By providing a basic understanding and appreciation of language from different perspectives, the unit establishes points of contact between language, the humanities, and beyond.

101907.1 Introduction to Literary Studies

Credit Points 10 **Level** 1

Equivalent Units

100862 - English, Text and Writing

This unit involves the close reading of literary texts to explore concepts about meaning-making including the use of language, narrative form, and issues of genre. The unit asks questions about the role and function of literature. For example: is literature's purpose to entertain readers, to provide them with emotional release, to represent the world, or to allow people to make meaning from their experience? The primary texts span three genres - fiction, poetry and drama. Students will learn about the different ways in which these literary forms are constructed and the contrasting ways in which they represent reality.

400160.4 Introduction to Occupational Therapy

Credit Points 10 **Level** 1

Unit Enrolment Restrictions

Students must be enrolled in 4663 Bachelor of Health Science/Master of Occupational Therapy or 4711 Bachelor of Occupational Therapy.

This unit introduces students to the profession of occupational therapy, conceptual foundations underpinning the profession, and areas of clinical practice. Students will learn about the important and unique contribution made by occupational therapists in peoples lives to promote health and well-being. The important role of occupation in daily life will be discussed. In particular, this unit presents an overview of how occupational therapy reduces activity limitations people may have, and in doing so enhances the social participation for people of all ages and abilities. The problem solving process used by occupational therapists to assist clients will be introduced.

401066.1 Introduction to Paramedicine

Credit Points 10 **Level** 1

Unit Enrolment Restrictions

Students must be enrolled in 4669 Bachelor of Health Science (Paramedicine).

This unit introduces students to the paramedic profession and its scope of practice in Australia. It includes exploration of the roles and responsibilities of paramedics in the context of the changing health environment. Ethical issues and relevant legal and regulatory requirements will also be discussed. Students will be introduced to the key concepts of paramedicine and to the complexity of normal development and its relationship to the processes of health science.

101918.1 Introduction to Philosophy

Credit Points 10 **Level** 1

This unit is an introduction to Western philosophical inquiry: it looks at fundamental questions we have about the way we think of the world around us, and the way we act. It presupposes no prior knowledge of philosophy. We will examine philosophical issues by looking at classic statements from the philosophical tradition. The unit will also help students to develop their skills in writing clear arguments. After completion of the unit students will have a critical understanding of some of the fundamental ideas that shape our thinking and our world.

401239.1 Introduction to Physical Cultural Studies

Credit Points 10 **Level** 2

Equivalent Units

400962 - Foundations of Wellbeing

Unit Enrolment Restrictions

Students must be enrolled in 4659 Bachelor of Health Science (PDHPE), 4747 Bachelor of Health Science (HPE) or 6001 Diploma in Health Science/Bachelor of Health Science (Health and Physical Education)

The unit explores the interconnection between physical movement, culture, and society. Students will investigate

the relationships among physical culture in its various forms (including health, physical activity, sport, dance, leisure, and movement related practices) and broader contexts (pedagogical, social, cultural, political, economic, and technological). The unit will equip students with knowledge and skills in becoming active, reflective and critical learners in physical culture thereby enacting meaningful changes in sites of inequality.

300818.1 Introduction to Physiology

Credit Points 10 **Level** 1

Equivalent Units

300753 - Introduction to Human Physiology, 300620 - Physiology 1, 700098 - Introduction to Physiology (WSTC)

Incompatible Units

300361 - Introduction to Human Biology

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This unit introduces the concept of homeostasis and critically examines examples of how the body systems are regulated and homeostatically controlled. The unit uses a body-systems approach to examine the physiology of tissues, organs and systems in order to develop an integrated view of the regulated functioning of the human body.

700098.2 Introduction to Physiology (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

300753 - Introduction to Human Physiology, 300620 - Physiology 1, 300818 - Introduction to Physiology

Incompatible Units

300361 - Introduction to Human Biology, 700061 - Introduction to Human Biology (WSTC)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

Special Requirements - Essential Equipment

Safety glasses, lab coat, lab book

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This unit introduces the concept of homeostasis and critically examines examples of how the body systems are regulated and homeostatically controlled. The unit uses a body-systems approach to examine the physiology of tissues, organs and systems in order to develop an integrated view of the regulated functioning of the human body.

400906.2 Introduction to Physiotherapy Practice

Credit Points 10 **Level** 1

Unit Enrolment Restrictions

Students must be enrolled in 4662 Bachelor of Health Science/Master of Physiotherapy.

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This unit introduces students to the concept of physiotherapy as a profession, including regulatory, ethical and legal frameworks underpinning practice within the context of the changing health environment. In addition, students will be introduced to fundamental aspects of physiotherapy practice, including gathering, analysing and problem-solving information through a process of clinical reasoning. Students will also develop practical skills in relation to assessment of movement, patient manual handling and transfers, and patient education regarding gait and use of assistive devices.

400905.2 Introduction to Podiatry

Credit Points 10 **Level** 1

Unit Enrolment Restrictions

Podiatry specific - students will be participating in podiatry related knowledge and skills that apply to podiatric practice units and designed to be an integrated part of the suite of units where one unit builds upon the competencies that complement units in Year 2, 3 and 4.

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The broad aim of this unit is to introduce the work of podiatrists in health care and explain the important role of podiatric services in the community. Students will develop basic skills in dealing with professional, legislative and health issues. The focus will primarily be on areas designed to prepare students for incorporating the clinical standards for infection control and general clinical assessment skills in preparation for competent and safe practice in clinical units.

401300.1 Introduction to Speech Pathology Practice

Credit Points 10 **Level** 1

Unit Enrolment Restrictions

Students must be enrolled in the 4763 Bachelor of Speech Pathology or 4764 Bachelor of Speech Pathology (Honours).

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This unit introduces students to the profession of speech pathology, including the regulatory, ethical and legal frameworks which underpin speech pathology practice within the context of the changing health environment. In addition, students will be introduced to fundamental aspects of speech pathology practice, including gathering, analysing and reflecting on information through a process of clinical reasoning. Students will also develop practical skills in performing speech pathology tests in a safe and effective manner and communicating with clients, academic staff and other students.

300733.2 Introduction to Structural Engineering

Credit Points 10 **Level** 2

Prerequisite

300040.2 Mechanics of Materials

Equivalent Units

85006 - Introduction to Structural Engineering, 700115 - Introduction to Structural Engineering (WSTC Assoc Deg)

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This unit covers the basic concepts in analysing and designing simple structural members. It consists of the fundamentals of structural analysis, concrete structures and steel structures

700115.2 Introduction to Structural Engineering (WSTC AssocD)

Credit Points 10 **Level** 2

Prerequisite

700116.2 Mechanics of Materials (WSTC AssocD)

Equivalent Units

300733 - Introduction to Structural Engineering

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College in 7022 Associate Degree in Engineering

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This unit covers the basic concepts in analysing and designing simple structural members. It consists of the fundamentals of structural analysis, concrete structures and steel structures.

102186.1 Introduction to Stylistics

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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The focus of this online unit is the language of literature and the craft of writing. The unit explores the rhetorical or figurative dimension of language across literary and non-literary texts. Students analyse a range of short texts - mostly passages from novels and poems - with an eye to the formal basis of their effects. Through recorded lecture pods and online exercises, students are introduced to the basic tools of stylistic analysis, including narrative analysis, metaphorical analysis and critical discourse analysis.

700216.2 Introduction to the Australian Legal System (WSTC Prep)

Credit Points 10 **Level** Z

Equivalent Units

900041 - Introduction to the Australian Legal System – Fast Track (UWSC), 900083 - Introduction to the Australian Legal System (UWSC)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

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This unit is designed to develop an understanding of the Australian legal system for students whose courses involve law units relevant to their area of study, such as Business, Construction, Policing and Criminology. Students will investigate the role of the Australian legal system in contemporary society, and explore its relevance to their chosen career path through project-based assessments. The unit will also help students develop the language and communication skills necessary for further tertiary study.

100195.2 Introduction to Translation

Credit Points 10 **Level** 1

Assumed Knowledge

Proficiency in English and other language (LOTE) at native or near-native level

Equivalent Units

A1345 - Translation 1, A1346 - Translation 2, A3394 - Introduction to Translation

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This is a core unit for students in the Bachelor of Arts (Interpreting and Translation) course and an elective foundation unit for language key field of study in the BA. It introduces students to translation theory and practice. Lectures are held in English for students of all languages. The tutorials are language specific in Arabic, Japanese, Mandarin and Spanish. The unit is only available to students with a high level of proficiency (native or near-native level) in one of the languages offered. The languages offered, subject to demand, are: Arabic, Chinese, Japanese, and Spanish.

300808.2 Introductory Chemistry

Credit Points 10 **Level** 1

Assumed Knowledge

General Mathematics or equivalent.

Equivalent Units

300469 - Introductory Chemistry, 700155 - Introductory Chemistry (WSTC)

Incompatible Units

300800 - Essential Chemistry 1

Special Requirements - Essential Equipment

Prescribed safety goggles, white laboratory coat, A4 laboratory book or equivalent A4 ruled note book.

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The chemical sciences underpin our understanding in the environmental, forensic, health, medical, biological and physical sciences. This unit familiarises students with the fundamental principles of chemistry and how chemistry shapes the world around us. Students will be introduced to the concepts of atomic structure, the reactivity of substances, the Periodic Table, stoichiometry, and will learn about the structure and reactivity of substances and

mixtures in different chemical environments, and exposed to different forms of electromagnetic radiation. Students will explore real world problems and apply the fundamental principles of chemistry to better understand how we may shape our own future.

700155.2 Introductory Chemistry (WSTC)

Credit Points 10 **Level** 1

Assumed Knowledge

General Maths or equivalent

Equivalent Units

300808 - Introductory Chemistry

Incompatible Units

300800 - Essential Chemistry 1, 700121 - Essential Chemistry 1 (WSTC)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

Special Requirements - Essential Equipment

Students require approved safety glasses, lab coat, enclosed shoes.

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The chemical sciences underpin our understanding in the environmental, forensic, health, medical, biological and physical sciences. This unit familiarises students with the fundamental principles of chemistry and how chemistry shapes the world around us. Students will be introduced to the concepts of atomic structure, the reactivity of substances, the Periodic Table, stoichiometry, and will learn about the structure and reactivity of substances and mixtures in different chemical environments, and exposed to different forms of electromagnetic radiation. Students will explore real world problems and apply the fundamental principles of chemistry to better understand how we may shape our own future.

700204.2 Introductory Programming (WSTC Prep)

Credit Points 10 **Level** Z

Assumed Knowledge

The ability to create a mathematical expression for a given problem scenario. This would require knowledge of basic arithmetic, percentages and simple statistical measures.

Equivalent Units

900084 - Introductory Programming (UWSC)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

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This unit introduces students to the principles required for the effective design and development of computer programs. This unit has been developed to help students acquire an understanding of essentials in designing programs theoretically and implementing them practically using an integrated development environment (IDE).

300918.3 Invertebrate Biology

Credit Points 10 **Level** 3

Assumed Knowledge

A basic understanding of core concepts of biology and/or zoology is desirable.

Equivalent Units

300334 - Invertebrate Biology, 401170 - Forensic Biology

Unit Enrolment Restrictions

Students must have completed 120 credit points, with at least 40 credit points at level 2.

Special Requirements - Essential Equipment

Students must have covered footwear for practical classes and field excursions; laboratory coat and safety glasses.

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Invertebrates are the most diverse and abundant organisms in aquatic and terrestrial environments. Due to their key role in many ecosystems, biologist E. O. Wilson coined the phrase of invertebrates as the 'little things that run the world'. Besides their ecological importance, many invertebrates are useful to humans, whereas others are harmful to agriculture, human and veterinary health. This unit highlights invertebrate diversity and life histories as well as their key ecological and economic importance. It also includes hands-on laboratory and field studies. This unit is designed for students with career pathways in science (e.g. animal, environmental, forensic and medical sciences) as well as agriculture, environmental management and education.

100919.2 Investigating Second Language Acquisition

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge of a LOTE and/or some Linguistics and/or some language teaching experience.

Equivalent Units

A7449 - Investigating Second Language Acquisition

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit is intended for Linguistics Honours students as well as TESOL and Interpreting and Translation Postgraduate students aiming to provide a focused theoretical and research framework in the area of second language acquisition (SLA) from a psycholinguistic viewpoint. This unit widens the theoretical and methodological basis of students intending to undertake further studies and/or research in the Linguistics and SLA area and also serves the TESOL and languages teachers

interested in applying SLA-based knowledge to language learning, pedagogy and classroom research.

200819.2 Investment Management

Credit Points 10 **Level** 3

Incompatible Units

200057 - Investment Management, 200078 - Portfolio Management

Investment Management describes the theory and practice of investment decision-making. The general objective of the unit is to introduce students to the tools of financial investment by providing a conceptual framework within which the key financial decision of investment can be analysed. This unit provides an overview of the theory of investing by describing investor indifference curves and optimal portfolios. The unit will include evaluating asset allocation, security selection and security analysis within an active portfolio management framework, measuring portfolio performance and security selection decisions.

101467.2 Islam in Southeast Asia

Credit Points 10 **Level** 3

Equivalent Units

63213 - Islam in Asian and World Politics

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

Islam is a significant feature of Southeast Asia's past and present. Employing methodologies and insights drawn primarily from history, political science, and anthropology, this unit explores Islam's place in and contribution to contemporary Southeast societies and politics, as well as its history in the region. Major themes to be explored include: the debates about Islam's spread to Southeast Asia and its interaction with the region's established socio-religious features, the colonial experience, Islam's often contested place in the national life of Southeast Asian nations, its past and ongoing links with the rest of the Muslim world, as well as contemporary issues associated with the War on Terror and conflicts in Muslim societies.

102294.1 Islam in the Modern World

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

This unit introduces students to Islam and its adherents within contemporary global context. It looks at key Muslim intellectuals from the 19th Century till the present and examines their attempts to come to terms with modernity as a Western project while addressing critical issues facing Islam. Areas for consideration include: renewal and reform; the impact of colonialism and globalisation on Muslim discourse; independent judgment (ijtihad) versus emulation (taqlid); and issues associated with civil society. Students

will also explore the challenge of shaping a Muslim identity in the modern world in the context of key Muslim institutions and social movements.

101822.3 Islam in the West

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

The unit focuses on the question of Muslim presence in the West with reference to the dynamics of inclusion and exclusion. Its aim is to enable students to look at the question of Muslim presence in terms of an action-reaction phenomenon in which different outlooks, ideas, institutions and nodes of information and authenticity interact to create an environment in which identities are developed. These identities then go on to shape the cooperative and conflictual relationships between different subsections of Muslim minorities and the majority non-Muslim Western states and societies. While focusing on the contemporaneity of the question, the unit looks at the study of Muslim presence in the West in a socio-historical context by providing an understanding of how Muslim-Western contacts shaped the nature of their relationship in the past. Then, the unit looks to contrasting the changes before and after 9/11 with reference to a set of ideas, institutions and contexts.

101468.2 Islam, Media and Conflict

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

Provides students with an understanding of global, regional and local news media production and representations of Islam and Muslim societies. It discusses new, emerging and alternative forms of media discourses of conflict in the Muslim world, and analyses selected news reports as forms of case studies. Taking the notion of 'Orientalism' as its starting point, the subject/unit critically examines the extent to which the mediation of conflict impacts relations between Islam and the West vis-a-vis debates on Orientalism, 'Asian values' and Islamic world views.

101465.2 Islamic Law in a Changing World

Credit Points 10 **Level** 3

Prerequisite

101462.2 Understanding Islam and Muslim Societies OR **101464.2** Great Texts of Islam: Qur'an and Hadith

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

This unit introduces students to Islamic legal theory, its sources and principles, and its application by different schools and scholars to derive religious verdicts. Students

will study efforts to 'streamline' Islamic law through a number of Sunni and Shiite schools, various conceptions of shari'ah, and modern attempts at law reform through dynamic scholarship and ijtihad (independent judgment). Upon completion, students should be able to explain developments in Islamic legal thought within their socio-historical contexts, and identify key debates among Muslim scholars. Using current case studies, students will also study Islamic law issues affecting Muslims today, especially Muslim minorities.

102297.1 Islamic Revivalism in the Globalised World

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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In the last decades there has been a surge in Islamic consciousness in Muslim communities across the globe. Islamic history has been punctuated by periods of revivalist activity and its hallmark always has been a desire for the return to Islamic origins - the basics of the faith as enshrined in the Islamic scripture. This unit explores the phenomenon of contemporary Islamic revivalism. The unit contrasts contemporary Islamic revivalism with earlier expressions. It aims to demonstrate that contemporary Islamic revivalism has manifested itself in a multiplicity of forms as a defensive reaction to an epoch characterised as modernity.

101601.3 Issues in Contemporary Heritage

Credit Points 10 **Level** 2

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The aim of this unit is to get students thinking critically about heritage. To do so, it examines two main questions: "What is heritage?" and "Why does it matter?". While the answers to both may appear fairly straightforward, this unit is designed to make students question and problematise their own assumptions, rethink what is and is not heritage, and consider why, in fact, we even care at all. The unit will introduce concepts such as national identity, ethics, memorialisation, belonging, nostalgia, heritage values, status, control and repatriation. It will also introduce and examine heritage legislation, theory and practice.

101331.2 Issues in World Development: Rich World, Poor World

Credit Points 10 **Level** 2

Equivalent Units

400677 - Issues in Third World Development

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This unit introduces students to the field of international development, where the divide between the rich world and poor world takes a centre stage. While development has created prosperity around the world, it is not without discontents. Social and economic inequality at the global level is a real problem and has been increasing. The 'developed' and 'developing' world paradigm will be

critically examined. Students will be equipped with theories and practicum examining development, underdevelopment and their related issues within a contemporary political, economic and social framework. Students will also have exposure to current global development debates such as poverty, global inequality, sustainable development, democracy and security.

100085.2 Japanese 101

Credit Points 10 **Level** 1

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This unit is an introduction to the Japanese language and some related culture. It is intended for beginner students only, who have never studied Japanese. This unit will cover the most basic level of the Japanese language in all four skills: listening, speaking, reading, and writing. The Japanese characters covered in this unit include the hiragana and katakana. Students with a background of study in the language need to obtain advice on their appropriate level of language study. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher class. Students should consult the Languages Academic Course Advisor or Unit Coordinator if they are unsure of their entry level.

102028.1 Japanese 201

Credit Points 10 **Level** 2

Assumed Knowledge

Japanese 102 or equivalent

Equivalent Units

101702 - Language & Communication Skills 2A: Japanese

Special Requirements - Essential Equipment

Internet access to Web information, on-line dictionaries, etc.

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This unit is designed as a post-beginner level language and culture unit intended for students who have studied this language to at least HSC level or equivalent. This unit focuses on the development of the grammatical structures and vocabulary in such areas as using polite and plain style of the language, verb conjugation for expressing conjecture, adverbial clauses indicating specific times and places, conditional, etc. The knowledge of kanji is increased to 260 characters. The unit is not suitable for background speakers (i.e., who have completed formal secondary education where Japanese is used as an official language and also the language of instruction at the School). NOTE: Students enrolling in this unit as part of a major or sub major in Japanese are encouraged enrol in Japanese 202 at the same time.

102029.1 Japanese 202: Speaking and Listening

Credit Points 10 **Level** 2

Assumed Knowledge

Japanese 102 or equivalent knowledge

Equivalent Units

101702 - Language & Communication Skills 2A: Japanese

Special Requirements - Essential Equipment

Internet access to Web information, on-line dictionaries, etc.

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This unit is normally undertaken concurrently with, or after, Japanese 201. It is designed to develop and expand speaking and listening skills based on the grammatical knowledge developed in Japanese 201. The range of communicative transactions is increased so that more sophisticated exchanges are possible, for instance when using polite and plain (i.e. casual) styles of speech, describing one's conjecture, stating an opinion, asking for explanation, etc. Cultural and social understanding of Japanese society is also fostered. The unit is not suitable for background speakers (i.e., who have completed formal secondary education where Japanese is used as an official language and also the language of instruction at the School). NOTE: Students enrolling in this unit as part of a major or sub major in Japanese are encouraged enrol in Japanese 201 at the same time.

102030.1 Japanese 203

Credit Points 10 **Level** 2

Assumed Knowledge

Japanese 201 or equivalent

Equivalent Units

101707 - Language & Communication Skills 2B: Japanese

Special Requirements - Essential Equipment

Internet access to Web information, on-line dictionaries, etc.

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This unit further develops students' language skills acquired in Japanese 201 to equip students with more sophisticated language skills and knowledge. Among the topics covered in Japanese 203 are: stating a plan or intention, making a suggestion in the plain form, offering advice, indicating the degree of certainty, describing a change in state, indicating causes of reasons, using of the passive and the imperative, etc. By the end of this unit, students will be able to read and write approximately 380 kanji characters. The unit is not suitable for background speakers (i.e., who have completed formal secondary education where Japanese is used as an official language and also the language of instruction at the School). NOTE: Students enrolling in this unit as part of a major or sub major in Japanese are encouraged enrol in Japanese 204 at the same time.

102031.1 Japanese 204

Credit Points 10 **Level** 2

Assumed Knowledge

Japanese 201 and 202 or equivalent knowledge

Equivalent Units

101707 - Language & communication Skills 2B: Japanese

Special Requirements - Essential Equipment

Internet access to Web information, on-line dictionaries, etc.

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This unit is undertaken concurrently with, or after, Japanese 203. It is designed to further develop and expand speaking

and listening skills on the basis of grammatical structure introduced in Japanese 203 and increase the range of communicative transactions developed in Japanese 202 so that more sophisticated exchanges are possible when stating a plan or intention, making a suggestion, offering advice, indicating the degree of certainty, describing a change in state, indicating causes, using the passive and the imperative, etc. This unit will also present further aspects of contemporary Japanese culture and society. The unit is not suitable for background speakers (i.e., who have completed formal secondary education where Japanese is used as an official language and also the language of instruction at the School). NOTE: Students enrolling in this unit as part of a major or sub major in Japanese are encouraged enrol in Japanese 203 at the same time.

101952.1 Japanese 301

Credit Points 10 **Level** 3

Assumed Knowledge

Japanese 203 and 204 or equivalent knowledge

Equivalent Units

101712 - Languages and Grammatical Concepts 3A: Japanese

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This is a Level 3 unit within the Japanese major program, intended for students who have successfully completed Japanese 202 or have acquired equivalent knowledge. It enhances students' comprehension of and ability to use new grammatical structures, expressions, interaction strategies and Kanji characters. In addition to improving the four primary language skills and ability needed for working in Japan or with Japanese people, this unit aims to advance students' knowledge of the modern Japan through the recommended texts and class discussions. NOTE: This unit is not suitable for native speakers.

100092.3 Japanese 302

Credit Points 10 **Level** 3

Assumed Knowledge

Japanese 301 or equivalent knowledge.

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After covering basic Japanese grammar in previous units, this unit is designed to further improve and extend students' competence in Japanese. It enhances students' knowledge and comprehension of Japanese, and develops their ability to apply this knowledge and comprehension to written and spoken Japanese. In addition to the language skills, this unit covers further aspects of Japanese culture through the recommended texts and class discussions. NOTE: This unit is not suitable for native speakers.

100093.2 Japanese 303: Contemporary Culture and Society

Credit Points 10 **Level** 3

Assumed Knowledge

Japanese 203 and 204 or equivalent

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This unit aims to provide students with a valuable insight into modern Japanese culture and society via learning the language at an advanced level. In this unit, students will further enhance their four skills in the language with a focus on listening and speaking.

101970.1 Japanese 304: Discourse in Japanese

Credit Points 10 **Level** 3

Assumed Knowledge

Japanese 203 and Japanese 204 or equivalent knowledge.

Equivalent Units

100094 - Japanese 304: Discourse in Japanese

Special Requirements - Essential Equipment

Internet access to Web information, on-line dictionaries, etc.

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This unit is designed to enable post-intermediate students of Japanese to learn and practice spoken Japanese at an advanced level. Students will explore Japanese discourse styles and discourse strategies in a range of situations, registers and levels of formality. In addition to the essential readings, materials drawn from educational videos, feature films, television dramas, news programs and language corpus will be used for class discussions and as data for analysis.

101971.1 Japanese 305: Advanced Reading and Writing

Credit Points 10 **Level** 3

Assumed Knowledge

Japanese 203 and 204 or equivalent knowledge

Special Requirements - Essential Equipment

Internet access to Web information, on-line dictionaries, etc.

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Students in this unit will further develop their competency in Japanese with a focus on reading and writing at an advanced level. The unit content is organised around communicative and cultural themes on Japanese society. To expose students to authentic language use, reading materials of different genres are selected from Japanese newspapers, magazines, Japanese language corpus and the internet. Acquisition of Kanji is accelerated through reading and writing tasks.

102219.1 Japanese 306: Japanese Popular Culture

Credit Points 10 **Level** 3

Assumed Knowledge

Japanese 203 and 204 or equivalent knowledge

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This unit aims to reinforce the Japanese language in all four skills: speaking, listening, reading and writing, via the medium of Japanese popular culture, e.g. manga, anime, Japanese drama and/or J-pop, by exploring and analysing culturally and linguistically specific issues of the language, e.

g. address terms and taking turns. Students will explore natural Japanese text and speech in both casual and formal styles at an advanced level, as well as increase their knowledge and understanding of Japanese popular culture.

400684.5 Juvenile Crime and Justice

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points at Level 1.

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In 2019 this unit replaced by 102699 - Youth Justice and Practice. This unit develops an understanding of the complexity of juvenile crime by addressing the historical, political, cultural and socio-economic factors associated with youth crime, constructions of youth, and, governmental strategies for regulating and preventing juvenile crime. An inter-disciplinary framework is used to develop a critical appreciation of the impacts of the regulation of particular youth groups that are over-represented in the juvenile justice system, including Aboriginal youth and other racial/ethnic minority youth. Lastly, the unit will critically assess a range of official interventions for working with young people within the juvenile justice system.

100001.3 Keeping the Past

Credit Points 10 **Level** 2

Equivalent Units

53403 - Keeping the Past

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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Legislation requires the preservation of natural, built and movable heritage, but choices about what to keep often produce controversy and reveal starkly varying opinions. Physical deterioration can mean that some things can not be kept. The historian's investigation of places and objects is an important part of the assessment process and the evaluation of what might be kept and why. Parramatta has a rich selection of heritage places. How does heritage fit in a modern CBD? Site visits around the city will identify archaeological and architectural heritage to promote discussions, visits to nearby museums will put these places in context and historical research will unravel their meanings.

300035.3 Kinematics and Kinetics of Machines

Credit Points 10 **Level** 2

Prerequisite

200237.3 Mathematics for Engineers 1 AND **300463.2** Fundamentals of Mechanics

Equivalent Units

700244 Kinematics and Kinetics of Machines (WSTC AssocD)

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In this unit rigid body kinematics is analysed from the freedom-and-constraints point of view and graphical approaches to velocity and acceleration analyses are covered. The unit looks at how one or more particles move in one, two or three dimensions and how forces cause these movements. It also looks at how forces and couples cause the movement of a single rigid body in two and three dimensions. The movement of multi-body mechanisms and gear trains, and the geometry of gear teeth and cams are studied.

700244.1 Kinematics and Kinetics of Machines (WSTC AssocD)

Credit Points 10 **Level** 2

Prerequisite

700101.1 Mathematics for Engineers 1 (UWSC Assoc Deg) AND **700113.2** Fundamentals of Mechanics (WSTC AssocD)

Equivalent Units

300035 - Kinematics and Kinetics of Machines

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College in 7022 Associate Degree in Engineering

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In this unit rigid body kinematics is analysed from the freedom-and-constraints point of view and graphical approaches to velocity and acceleration analyses are covered. The unit looks at how one or more particles move in one, two or three dimensions and how forces cause these movements. It also looks at how forces and couples cause the movement of a single rigid body in two and three dimensions. The movement of multi-body mechanisms and gear trains and the geometry of gear teeth and cams are studied.

300883.1 Laboratory Quality Management

Credit Points 10 **Level** 3

Assumed Knowledge

A demonstrated understanding of and competence with laboratory techniques in analytical chemistry or microbiology, corresponding to successful completion of a Level 2 Microbiology or Analytical Chemistry unit.

Equivalent Units

300656 - Laboratory Quality Management

Unit Enrolment Restrictions

Successful completion of 60 credit points at level 1 and 40 credit points at level 2 in Bachelor of Science, Bachelor of Medical Science or Bachelor of Natural Science.

Special Requirements - Essential Equipment

Lab coats, closed in footwear, safety glasses

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This capstone unit is directed towards the accreditation of a laboratory for chemical, microbiological or forensic testing, using the standards that are applicable in industry. The unit focuses upon the importance and coordination of good laboratory management, teamwork, calibration, record

keeping and laboratory manuals. Groups of students are required to develop, establish and operate a comprehensive Laboratory Quality Management system designed for a specific class of chemical, microbiological or forensic test. The students' technical competence and quality system are then assessed using the guidelines laid down by the National Association of Testing Authorities (NATA).

300138.3 LAN Workshop

Credit Points 10 **Level** 2

Assumed Knowledge

Ability to list, discuss and compare the elements of information coding and signal transmission. List, describe and explain the elements and functional relationships of communications hardware and software. Identify, locate, distinguish and describe the individual hardware components of a personal computer (PC) and explain their purpose, functions and operations. Install PC components, devices and peripherals in accordance with installation procedures and operational standards.

Equivalent Units

300576 Networking Workshop

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This unit provides students with the knowledge and skills necessary to install, test, tune, customise, repair and maintain networking hardware and software necessary to create a Local Area Network (LAN). Students also learn how to administer a LAN by setting up user accounts, access privileges, security procedures and back-up/recovery procedures.

300875.1 Landuse and the Environment

Credit Points 10 **Level** 2

Equivalent Units

300624 - Landuse and the Environment

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This unit will assist students develop a sound framework for the analysis of land use and its interactions with the environment. The skills gained will assist in the evaluation of land use at various levels from household to international level. Particular emphasis will be placed on students gaining a sound conceptual framework from which to examine sustainability at the environmental, economic, social, and production levels. Emphasis will be placed on the use of ecological footprinting as a tool.

101854.1 Language and Linguistics Research Methods

Credit Points 10 **Level** 7

Equivalent Units

A7444 - Language and Linguistics Research Methods

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit aims to help postgraduate students acquire the knowledge and skills to design and carry out a research

project in the field of Languages and Linguistics (i.e. Contrastive Linguistics, Sociolinguistics, Language-in-Education Planning, First and Second Language Acquisition, Interpreting and Translation, Discourse Analysis and Descriptive Linguistics). It includes theoretical and practical work in specific areas of research in Languages and Linguistics.

102475.1 Language Assessment and Testing

Credit Points 10 **Level** 2

This unit introduces students to fields of language assessment and testing in teaching English as a foreign/second language. It provides students with some insight into the key language components for assessment, assessment design and development. It also equips students with updated knowledge about different assessment approaches which impact on the teaching and learning of English as a foreign/second language in local and global contexts.

200183.4 Law of Business Organisations

Credit Points 10 **Level** 2

Prerequisite

200184.3 Introduction to Business Law OR **200909.1** Enterprise Law

Note: Pre-requisite unit 200184 Introduction to Business Law is replaced by unit 200909 Enterprise Law.

Equivalent Units

LW208A - Law of Business Organisations, 61522 - Business Associations Law, F2006 - Business Associations Law

This unit deals with legal issues concerning the creation and control of companies and compares this structure with other forms of business organisations, such as partnership, trusts and sole traders. This unit will provide students with an appreciation of the law of partnership, and companies and, for the sake of completeness and comparison, a brief examination of the law regarding unincorporated and incorporated non-profit associations.

102416.1 Law, Literature and Culture

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

This unit explores the common origin of law and literature in rhetoric, narrative, interpretation, and culture. Students will study literary representations of justice, violence and morality and explore an interpretive understanding of the law. Core unit texts will usually be drawn from 19th century world literature to the present, though Film and Television texts may also be selected for analysis.

200863.1 Leadership and Entrepreneurship

Credit Points 10 **Level** 3

This unit explores the links between leadership and entrepreneurship in the context of dynamic domestic and global environments. It develops an understanding of how to initiate a business venture, taking advantages of perceived opportunities and mobilising the required resources. To this end, different theories and perspectives on leadership and entrepreneurship are examined, and students are encouraged to apply them to real-life situations. The knowledge and skills learned in this unit will enable future leaders to revitalise organisations and create value in the process of transforming innovations into goods or services.

400777.4 Leadership for Quality and Safety in Health Care

Credit Points 10 **Level** 7

Prerequisite

400220.2 Contemporary Professional Practice in Mental Health Nursing AND **401168.1** Evidence Based Health Care AND **400235.2** Leadership in Clinical Practice

Equivalent Units

400842 - Quality and Safety in Health Care

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Increasingly clinical leaders, practitioners and health service managers are being held accountable for improving the quality and safety of patient care and for developing a culture of quality improvement within their teams. In this unit students learn about quality, patient safety and governance frameworks and strategies that they can employ within healthcare to improve system performance, patient safety and patient outcomes. The main approaches used to address quality of care and patient safety are examined and their applications critiqued. Students will explore leadership issues for developing systematic, coherent quality improvement frameworks and quality initiatives that can be applied within their own sphere of practice.

200855.2 Leadership in a Complex World

Credit Points 10 **Level** 1

Incompatible Units

200857 Leadership and Uncertainty

Unit Enrolment Restrictions

Students must be enrolled in The Academy at Western Sydney University: That is, students enrolled in advanced degrees or other courses at the discretion of the Academy or the Dean.

This unit is designed for students from Advanced Degrees who are enrolled in The Academy. The focus here is the leadership of groups and teams in a cross-disciplinary

environment and its application in various contexts. The unit encourages the examination of leadership through the lens of multiple disciplines thereby broadening perspectives of leadership and inspiring students to think and act outside the silos of their disciplines. Through the unit, students will be challenged to think about preparing for unknown futures and the nature of the skill sets necessary to prepare for and respond to change and innovations.

100701.1 Leadership, Mentoring and Professional Growth

Credit Points 10 **Level** 7

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Becoming a professional is a complex and intricate process. Beyond adequate initial training (both theoretical and the implementation of theory into practice) it takes a commitment and undertaking to career-long learning and professional development. Such commitment and undertaking need not be an isolated process. Educational leaders are available to assist in the promotion of professional development. This unit provides leaders with the understandings and strategies for implementing mentoring and professional development programs.

101259.3 Learning and Creativity

Credit Points 10 **Level** 2

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This unit examines the inter-related processes of learning and creativity and the application and practice of these in all aspects of life. Learning and Creativity is contextual. This context is personal, social, cultural and environmental. The unit content is critically positioned within diverse theories, with an emphasis on experiential learning and ongoing critical reflection. The unit promotes understanding of feeling and experience as much as concepts and ideas. It emphasises the tools and skills of learning, the everyday nature of creativity and enables students to develop and apply their creativity. It is designed for students interested in personal, community and cultural development, in the context of far reaching change.

800171.1 Learning and Processing Human Language

Credit Points 10 **Level** 7

Assumed Knowledge

Master of Research core units: Research Design 1, Research Literacies or equivalent

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How do humans learn and process language, in its spoken, gestural, and written forms? This unit will equip students with theoretical foundations and practical understandings of how to read and conduct research in this area. Topics may include research areas such as language acquisition, language use and communication, word recognition, reading development and disorders, speech perception and production. In addition, a review of data collection and analysis techniques will be provided. The unit will include lecture and laboratory experimental work. The unit will be focused on research currently conducted by members of the MARCS Institute.

102158.1 Learning and Teaching in Challenging Contexts

Credit Points 10 **Level** 7

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This unit involves the study of pedagogy in contexts regarded as challenging. The main focus will usually be on the contexts of school and early childhood, but alternative sites of education will also be studied as appropriate. The definition of a challenging context will be considered with an emphasis on contexts of poverty. The unit explores engaging pedagogies and unit will investigate specific dilemmas for education. The unit will be structured around dilemmas and specific provocations.

101758.2 Learning through Indigenous Australian Community Service (Day Mode)

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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Learning through Indigenous Australian Community Service will provide students with an exciting opportunity to apply their disciplinary knowledge and skills in an Indigenous Australian cultural context. Students will negotiate and conduct an interview with an Indigenous or Non-Indigenous Service Provider working in an Indigenous context. Students will gain cross cultural awareness and insights as well as knowledge about Indigenous community affairs including cultural protocols, decision-making and leadership. This experience will provide students with a level of cultural understanding and competency that can lead to improved communication skills and effective partnering with Indigenous people, organisations and communities.

200978.2 Legal Analysis and Critique

Credit Points 10 **Level** 1

Prerequisite

[200977.1](#) Fundamentals of Australian Law

Corequisite

[200008.5](#) Torts Law

Equivalent Units

200007 - Law Foundation

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The unit exposes students to the contexts that affect how law is made, some of the institutional limitations on law and justice and the impact of globalisation on law. It introduces theories about the nature and function of law in historical, political, social, economic, cultural, ethical and international contexts. The connection between race, gender, culture and law is examined within the context of the Australian legal tradition, legal history, and the impact of the Australian legal system on Australian First Peoples. The unit introduces students to the processes of critical evaluation of arguments, legal communication and logical and critical

problem solving involving statutory interpretation and precedent.

401037.2 Legal and Ethical Issues in Midwifery

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Students must be enrolled in 4684 Bachelor of Midwifery.

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit explores responsibilities related to the nature and professional context of midwifery. It focuses on developing students understanding of legal and ethical issues and the midwives obligation to work within ethical and legal frameworks for safe practice. The legal and ethical roles and functions of the midwife and their relationship to others are considered in terms of expected standard, responsibilities, accountabilities and scope of practice within the regulatory framework. It will provide an opportunity for students to explore and discuss ethical issues related to midwifery, reproductive and maternal health.

400789.3 Leisure Education Programming and Mental Health

Credit Points 10 **Level** 3

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In this unit students will develop knowledge and skills required to facilitate and critically evaluate leisure education interventions to bring about changes in the leisure behaviour of individuals, particularly those at risk of developing or with a diagnosed mental illness. Students will analyse evidence to plan, implement and evaluate leisure education programs.

200027.3 Linear Algebra

Credit Points 10 **Level** 2

Assumed Knowledge

Solving systems of equations with two and three unknowns, basic matrix operations, including multiplication.

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The objective of this unit is to present the main fundamentals of linear algebra and includes such topics as solving systems of linear equations, matrix algebra, determinants, eigenvalues and eigenvectors, Euclidean vector spaces, general vector spaces, inner product spaces and linear transformations.

700227.2 Literacy in Health Science (WSTC Prep)

Credit Points 10 **Level** Z

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

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This unit provides an introduction to the provision of health, services and fields associated with the provision of health in Australia. The unit covers a range of health science concepts, including what health literacy is and why it is important and other concepts such as acute care, chronic care, health education, rehabilitation and palliative care. The unit also introduces examples of terminology used for measuring the distribution and determinants of disease and illness in varied population groups (epidemiology). This includes terms such as health data, morbidity, co-morbidities, mortality, quality of life and disability adjusted life years. This unit aims to give students an understanding of health science practice in Australia both in city and rural settings and identifies minority group issues and challenges in accessing healthcare and services.

101724.2 Literary Animals

Credit Points 10 **Level** 3

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This unit explores a selection of literary works that invite us to examine the tenuous border separating the "human" from the "non-human." Readings will allow students to learn how literary texts employ various formal techniques (allegory, anthropomorphism, etc.) that call into question the conventional opposition between human and animal. Particular attention will be given to the intersection of animality, race, gender, and sexuality. Readings may include one or more national literatures, such as American or Australian literature.

102581.1 Literary Theory

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit examines a range of theoretical approaches to literature, the majority of which have proliferated since the beginning of the 20th century. These may include: structuralism, poststructuralism, feminism, postcolonialism, psychoanalysis and posthumanism. In presenting this 'contemporary' mode of engaging with literary texts, 'Literary Theory' asks how we might theorise our approach to reading, and how individual texts allow us to theorise the literary in general.

102572.1 Literature and Decolonisation

Credit Points 10 **Level** 2

Equivalent Units

101966 - Literatures of Decolonisation

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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Do you know why nearly a hundred new nations were founded between 1945 and 1970? Have you ever wondered who Mahatma Gandhi or Ho Chi Minh were? Why would you challenge authority 'non-violently'? How do you write creatively in a language that has been imposed through colonial conquest? These are all questions connected to decolonisation: the explosive process by which the great modern European empires were dissolved and scores of new nations were formed - from Indonesia to Algeria, India to Nigeria, Jamaica to Vietnam. With this process came a surge of creative energy, as formerly colonised peoples set out to produce new ways of writing and thinking. We will read classic anti-colonial politicians like Gandhi and Frantz Fanon and writers from different decolonising regions including India, Africa, South-East Asia, the Caribbean, the Middle East and Australia.

100875.4 Literature and Philosophy

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit will examine ways in which literature and philosophy interact. It will consider the ways in which literature and philosophy offer important and different ways of thinking. And it will consider the differences between literature and philosophy. Literature will be understood to involve thinking through sensations, while philosophy will be understood to involve thinking through concepts. The unit will examine examples of interaction between literary texts and philosophical texts, considering how literary effects can inhabit philosophical texts and philosophical ideas can permeate literary texts. The unit will consider frequently occurring themes within both literature and philosophy, such as ethics (ways of living and acting).

101739.3 Literature and Trauma

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit considers the relationship between narrative and trauma and writing and trauma. It looks at the discourses of trauma, including psychoanalytic and psychiatric, philosophical and that belonging to literary criticism. It considers the politics of testimony and trauma in history; the role of narrative in healing and the remaking of Self; the crises of the "witness" and the limits of narrative in recalling trauma in psychoanalysis, literature, and history. It considers the socially produced limits of narratives of trauma. It also considers the meeting point between trauma, its wound and writing. The unit canvasses a raft of

life-writing and fictional writing whose subject is trauma and or traumatic experience.

301070.2 Logic, Rhetoric and Argumentation

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Students must have a minimum GPA of 5 and be enrolled in The Academy at Western Sydney University; i.e. students enrolled in the Bachelor of Applied Leadership and Critical Thinking or other advanced courses at the discretion of the Academy or the Dean.

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This unit is designed for high-achieving students who may be enrolled in Advanced degrees or the Bachelor of Applied Leadership and Critical Thinking. This unit provides students with a detailed understanding of logical and rhetorical arguments in order to prepare them for leadership roles in the future. Throughout the unit, students will appraise the structure of logical and rhetorical arguments, evaluate classical arguments and critiques and assess the structure, validity and soundness of philosophical arguments.

101733.2 Looking at Global Politics Through Film

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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Popular representations of world politics shape our collective understanding of political history and international relations. This unit examines the ways in which film can communicate political messages to its audience, as well as the far more difficult issue of the effects that those messages might have on viewers. Although the discipline of International Relations (IR) has overwhelmingly ignored popular culture, it is the argument of this unit that popular culture actually provides us with a wealth of significant representations of world politics.

200926.1 Macroeconomic Measures and Models

Credit Points 10 **Level** 3

Assumed Knowledge

Knowledge acquired in introductory microeconomics, macroeconomics and accounting.

Equivalent Units

200546 - Macroeconomic Issues

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The unit equips students with formal tools to analyse macroeconomic problems. Students learn to use macroeconomic terms and measures competently in discussion, and interpret data from the income, product, external and government accounts, and labour force surveys. Through hands-on experience constructing and applying price indices, deflators and productivity measures, they acquire practical skills and a sound conceptual

understanding of economic variables and the accounting framework. Students come to appreciate the power of macroeconomic models, learning how to capture myriad mechanisms and feedbacks in a single framework, for example to define and quantify multipliers and crowding-out effects. Finally, students gain an understanding of fundamental external constraints, such as international parity and balance of payments equilibrium conditions.

401075.1 Major Incident Management

Credit Points 10 **Level** 3

Prerequisite

401069.1 Paramedic Practice 4

Unit Enrolment Restrictions

Students must be enrolled in 4669 Bachelor of Health Science (Paramedicine).

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This unit examines the tactical and strategic issues facing a health response team in a major incident. Students will practice team responses to critical incidents and evaluate the effectiveness of different approaches to response and recovery.

300459.3 Major Project Commencement

Credit Points 20 **Level** 4

Assumed Knowledge

Knowledge related to the successful completion of year 3 Industrial Design or equivalent (e.g. Design & Technology) is assumed. Students undertaking this unit should be able to complete tasks using word processing programs and should have an understanding of basic research methods and the use of library databases. There is an expectation that students have skills in academic writing, report-writing, research, referencing and citations standards. Students should have a sound understanding of project management and record-keeping, including the use of process diaries and minutes to ensure they are able to manage their projects effectively.

Prerequisite

301084.1 Design Studio 6: Ambience, Place and Behaviour AND **301090.1** Contextual Inquiry

Unit Enrolment Restrictions

Successful completion of 200 credit points. Essential equipment: Drawing, rendering equipment, visual process diary, model-making resources.

Special Requirements - Essential Equipment

Drawing, rendering equipment, visual process diary, model-making resources.

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This unit prepares students to be flexible and innovative, with the emphasis placed on design, and its place in and effect on society and people. Students are challenged to respond to a real world design brief focusing on a specific user group and context-of-use. Students undertake desk and practical research in order to find design opportunities for detailed development. Peer learning is an important part of the learning experience, as is a user-centred design research approach.

300460.3 Major Project Completion

Credit Points 30 **Level** 4

Assumed Knowledge

Knowledge related to the successful completion of Year 3 Industrial Design is assumed and successful completion of Major Project Commencement.

Prerequisite

300459.2 Major Project Commencement

Unit Enrolment Restrictions

Students must have completed Industrial Design/ Engineering Workshop Safety Training.

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Major Project Completion is the project realisation component of the student's final year program. The unit offers the student the chance to consolidate the range of methodologies and processes developed and evaluated in Major Project Commencement, that contextualise the principles and practices that will lead to the realisation of their identified design solution. The final design outcome will form part of the final year graduate exhibition. The design solution which students will be developing and submitting for this unit responds to the design brief developed in Major Project Commencement.

300536.4 Major Project in Construction

Credit Points 10 **Level** 4

Assumed Knowledge

This is a research unit designed to be taken during the final year of the Bachelor of Construction Management standard program. Students should have a comprehensive knowledge of problem solving research in the construction industry.

Corequisite

Students in 2607 Bachelor of Construction Management must enrol in 300724 Industry Based Learning before enrolling in this unit.

Equivalent Units

BG402A - Major Project 1

Unit Enrolment Restrictions

Successful completion of 200 credit points.

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This unit will enhance the ability of students to investigate a selected topic with a construction industry focus and involves preparation of a literature review. Content includes mechanics of a literature review, use of research (or strategic planning) in the construction industry, development of high-value competencies in terms of marketing, organisational structure and project management.

301032.1 Making Sense of Data

Credit Points 10 **Level** 2

Assumed Knowledge

Basic Statistics.

Prerequisite

300700.5 Statistical Decision Making OR 200263.5 Biometry OR 200032.5 Statistics for Business

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The unit builds on the basic statistical concepts introduced in first year, and also prepares students for broader application of statistics for those majoring in science or business. Topics include hypothesis testing; analysis of categorical data; analysis of variance; non-parametric methods; re-sampling (cross validation/bootstrapping); Introduction to visual data analysis; simple Multivariate statistics and sampling and design.

200116.5 Management Accounting Fundamentals

Credit Points 10 **Level** 1

Prerequisite

200111.2 Financial Accounting Applications

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This unit provides an introduction to management accounting in an e-commerce environment. The interrelations of management accounting to other functional areas, to suppliers, to customers, and to other sources of external information relevant to planning and control are examined. Topics include the development and logic of routine and non-routine analysis performed to support management decision making.

301123.1 Management Analytics

Credit Points 10 **Level** 1

Assumed Knowledge

HSC maths (2 unit desirable) or equivalent.

Equivalent Units

200032 Statistics for Business, 200052 Introduction to Economic Methods, 300700 Statistical Decision Making, 200263 Biometry, 200192 Statistics for Science, 700007 Statistics for Business (WSTC), 700041 Statistical Decision Making (WSTC)

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Management Analytics provides students with introductory knowledge and skills in identifying, analysing and interpreting data relevant to Business, Human Resources and Management. In order to develop evidence-based decision-making skills, students will learn how to work with data. Students will organise and summarise data, present data visually and design surveys for new data collection and use. Students will develop skills in understanding decision-making models and forecasting as a means of improving business processes and HR, management and business metrics.

200571.4 Management Dynamics

Credit Points 10 **Level** 1

Equivalent Units

700080 - Management Dynamics, 700003 - Management Dynamics (UWSC), 200912 - Enterprise Leadership

Incompatible Units

MG102A - Management Foundations, 200879 - Introduction to Business Studies

Unit Enrolment Restrictions

External offerings for this unit are only available to students who are enrolled in a Property course or specialisation.

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In 2016, this unit is replaced by 200912 - Enterprise Leadership. The unit provides an opportunity for students to engage with the fundamental issues and theories of management as well as understand that management itself is dynamic and evolving. Students will be introduced to how work and management systems are organised and managed, and how these impact upon individuals, other organisations or society as a whole. The unit covers both the theory and the practice of management and employment relations and is an essential unit for business students in order that they achieve a broad initial understanding of management and employment relations.

300824.1 Management of Aquatic Environments

Credit Points 10 **Level** 1

Equivalent Units

300633 - Management of Aquatic Environments

Special Requirements - Essential Equipment

Students will need a lab coat and suitable protective clothing for fieldwork.

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This unit introduces students to the physical, chemical and biological nature of water systems and the linkages to human activity. These linkages include a development of an appreciation of the essential services and broad uses and values of water in modern human society, and the natural environment. Students are challenged to examine the causes and effects of water pollution and environmental degradation. Students are introduced to scientific water sampling, analysis and reporting of water quality and pollution.

200376.3 Managing and Developing Careers

Credit Points 10 **Level** 2

Equivalent Units

200914 - Working in Professions, 200915 - The Service Enterprise

Unit Enrolment Restrictions

Successful completion of 60 credit points .

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Managing and Developing Careers focuses on employability and career progression. The unit is one of four units in the Management professional core in the Bachelor of Business but is open to all students with an interest in reflecting on career progression in leadership and management-related careers. The unit will utilise portfolio development, case studies, occupational and industry research to assist participants identify and reflect on strategies to facilitate achievement and employability.

Successful completion of the unit will result in students creating an ongoing portfolio directed to future employability.

101633.2 Managing Cities: History and Theory

Credit Points 10 **Level** 7

Equivalent Units

101310 - Metropolitan Structures: Cities in Transformation

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This unit concerns philosophical thought and critical thinking in public planning. It develops an understanding of planning theories and examines past and present trends in this area. It reviews the theoretical frameworks for an insight into planning processes and analyses the economic, spatial and socio-political dimensions of activities involved.

200864.1 Managing in the Global Environment

Credit Points 10 **Level** 2

Equivalent Units

200586 Cross Cultural Management, 700094 Cross Cultural Management, MG206A Cross Cultural Management

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This unit introduces students to the complexities of managing in the changing economic, political, legal, technological and socio cultural factors that influence management practice. By addressing issues of cultural awareness, this unit provides an organisational behaviour approach to managing in a dynamic global environment. Management practice and theoretical knowledge are linked in this unit through experiential based learning and assessment activities such as critical analysis of contemporary media, research and case studies.

200865.1 Managing Operations

Credit Points 10 **Level** 3

Assumed Knowledge

Students are expected to have gained an introductory level of knowledge in operations and supply chain management.

Equivalent Units

200588 Global Operations and Logistics Management

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Managing Operations is a comprehensive unit that focuses on the importance of operations in creating competitiveness and dynamic capabilities for individual organisations and organisations connected through supply chains and logistics processes within a global context. The unit is designed for students interested in enhancing their knowledge and skills in designing and improving critical operational processes used by organisations to provide products and services to customers. It encompasses internal and external operations for manufacturing and service organisations; their strategic choices; and tactical and operational decision-making processes for the management of critical and extended resources. The latest qualitative and quantitative tools and techniques, online business simulations and international case studies are

used to practise problem solving processes to address challenges of a global nature in the business world.

200300.2 Managing People at Work

Credit Points 10 **Level** 1

Equivalent Units

200151 - Management of Employment Relations, 61428 - Introductory Employment Relations, 700030 - Managing People at Work (UWSC), 700091 - Managing People at Work (Creative Industries)

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'Managing People at Work' provides an introductory framework for the study of employment relations. The unit is approached from a stakeholder perspective, emphasising the way that management, labour and the State, along with other key stakeholders, act, both separately and together, to structure the employment relationship. In doing so, the unit integrates industrial relations and human resource management theory and practice, illustrating the links between the two disciplines. The content of the unit is structured so as to provide an initial introduction to the disciplines of industrial relations, human resource management, and employment relations, and to the key stakeholders in the employment relationship. Building on this framework, a theoretical and empirical analysis of employment relations processes is provided, with particular emphasis given to recent changes in the role and perspectives of stakeholders.

300959.1 Mangamai'bangawarra: Indigenous Science

Credit Points 10 **Level** 2

Assumed Knowledge

Equivalent to a basic understanding of Level 1 introductory biology and chemistry.

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This unit explores aspects of Aboriginal science and medical science in the treatment and prevention of illness. The unit has a particular focus on the knowledge of the local D'harawal People. The culture and history of Indigenous Australians is introduced to provide a contextual backdrop to the study of Indigenous medical remedies from eastern Australia, the deserts, and the tropics. To complement this study, Indigenous perspectives on the seasons, weather and land management will be studied.

300978.1 Marine and Aquatic Ecology

Credit Points 10 **Level** 3

Assumed Knowledge

Concepts of classification, evolution, taxonomy, cellular processes plant and animal structure and function, normal distribution, representative sampling, probability and uncertainty

Equivalent Units

300465 - Aquatic Ecology, 300929 - Aquatic Ecology

Unit Enrolment Restrictions

Successful completion of 80 credit points at Level 1 and 40 credit points at Level 2.

Special Requirements - Essential Equipment

Students must wear covered footwear for field excursions.

Temperate freshwater, estuarine and marine aquatic ecosystems play vital roles in providing food, water, recreation and other ecosystem services to human society and habitats for important species that make up global biodiversity. Yet aquatic habitats are the most threatened ecosystems on earth, under threat from global climate change and urbanisation. Through inquiry and problem solving this unit will equip students with the necessary techniques in experimental design and analysis needed to investigate aquatic ecosystems and knowledge of the main animal and plants in aquatic and marine ecosystems. The logic and philosophy of science, scientific studies and experimental analyses will be used to understand temperate aquatic ecosystems throughout this unit. On completion students will have the background knowledge and skills communicate to a range of audiences, so that they can contribute beneficially to management and/or conservation of waterways and oceans and the biodiversity within.

200086.3 Marketing Communications

Credit Points 10 **Level** 2

Assumed Knowledge

Basic principles of marketing

Prerequisite

200083.2 Marketing Principles

Developing and managing an effective integrated marketing communications (IMC) program is a vital part of successful marketing. Moreover, IMC is a highly visible and demanding aspect of marketing communication effort at brand level. This unit, grounded in marketing principles, provides students with an understanding of IMC, the marketing communication process, and coordinating major elements of the marketing communications mix – advertising, digital marketing, sales promotions, personal selling, sponsorship marketing, public relations, direct marketing.

200096.3 Marketing Planning Project

Credit Points 10 **Level** 3

Assumed Knowledge

An understanding of marketing concepts including the elements of consumer behaviour, marketing research methods, marketing communications, channel management and distribution, brand and product management, competitive strategy and quantitative methods in marketing. The basics of economics, finance and accounting, mathematics and statistics and general communications are also assumed.

Prerequisite

200083.2 Marketing Principles

Equivalent Units

61734 - Marketing Project, MK311A - Marketing Planning Project

Marketing planning project (MPP) assimilates and builds on the wide range of marketing units that students have previously completed. MPP assimilates students' specialist knowledge developed in other units through the use of a 'real-life' case context in which students demonstrate their mastery of marketing in the development and presentation of a professional marketing plan.

200083.2 Marketing Principles

Credit Points 10 **Level** 1

Equivalent Units

61711 - Marketing Principles, 700001 - Marketing Principles (UWSC), 700089 - Marketing Principles (Creative Industries)

Unit Enrolment Restrictions

External offerings for this unit are only available to students who are enrolled in the Property course, Key Program or Major. Only students enrolled with Online Education Services may enrol in the OES online offering of the unit.

Marketing Principles is an introductory marketing course that delivers an overview of the marketing process and how it works within the field of business. This unit examines how organisations use marketing decisions to satisfy customer needs and deliver value. Areas of study include market segmentation and positioning; market planning; product decisions and new product development; branding; customer decision processes, channels of distribution; promotion and advertising; pricing strategies; and customer information management. The unit provides a foundation for those students in the marketing major; however it also provides a broad overview for those who seek a general understanding of the topic.

200592.2 Marketing Research

Credit Points 10 **Level** 2

Assumed Knowledge

Basic principles of marketing, consumer behaviour and statistics.

Prerequisite

200032.5 Statistics for Business AND **200083.2** Marketing Principles

Equivalent Units

200085 - Fundamentals of Marketing Research

Marketing Research provides a comprehensive appreciation of the methods, uses and limitations of contemporary marketing research. The emphasis is on a conceptual understanding of research method. Students gain exposure to concepts such as research design, information collection, data processing and analysis, and results communication involving qualitative and quantitative techniques.

200472.4 Material Science in Construction

Credit Points 10 **Level** 2

Incompatible Units

300965 - Materials Engineering

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This unit deals with the behaviour of building materials and products in the construction context, including concrete, timber, metal, composites and polymers. An introduction will be given first on how material behaviour and properties are affected by micro-structure, composition and environment. Materials will be discussed in detail according to their physical properties and how they degrade in context. We will also discuss how the materials are manufactured and used and what their environmental impacts are.

401237.1 Maternal and Infant Health Care

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Students must have completed at least 120 credit points in a nursing or health related degree. This unit is not available to students in the Bachelor of Midwifery.

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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Maternal and Infant Health care introduces students from Nursing, Health Sciences and other disciplines to the key physiological, social and emotional issues around pregnancy, labour and birth and early parenthood. It also examines the Australian maternity care system and model of care. Content covered in the unit will include; foetal development, normal physiological labour and birth, health promoting behaviours and development of parenting confidence. Importance will also be placed on the role of social support, infant feeding practices and communication and newborn care. Models of care and the impact of the media on shaping parenting ideas and practices will be covered.

301106.1 Mathematical Investigations

Credit Points 10 **Level** 7

Assumed Knowledge

Undergraduate level of knowledge in mathematics or statistics

Unit Enrolment Restrictions

Students must be enrolled in 8086 Master of Research.

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Mathematical Investigations will prepare Master of Research for students planning a future in mathematical/statistical research. Students will carry out investigations

under the supervision of an academic staff member that will allow development of skills, knowledge and a way of thinking that will assist in the learning of mathematics/statistics that will prepare them for research in their chosen field of mathematics. They will also develop their written and oral communication skills, culminating in a poster presentation of significant findings as if being submitted at a mathematics/statistics conference, following that conference's directions for submission.

200022.3 Mathematical Modelling

Credit Points 10 **Level** 3

Assumed Knowledge

Matrix algebra and how to find eigenvalues and eigenvectors.

Prerequisite

200030.2 Differential Equations

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Mathematical Modelling is about solving real world problems. The real world is a complicated place which we often need or want to understand better. One way to do this is to set up a mathematical model which we hope can provide insights, predictions and a greater understanding of a complex system. Selected real-world problems are approximated by mathematical models that are amenable to being written in terms of linear and non-linear equations or differential equations. Once equations are solved emphasis is placed on interpreting solutions, modifying models as required and using models for prediction.

301177.1 Mathematical Proof and Reasoning

Credit Points 10 **Level** 7

Assumed Knowledge

Undergraduate level of knowledge in mathematics or statistics

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Proving and getting a new proposition by careful reasoning from given propositions, is the essence of mathematics. Proof is what makes mathematics special and eternal. This unit looks at the different methods of proof and reasoning that can be employed to verify that statements are true or not. Students will consider propositions and theorems from various areas of mathematics and look at classic, interesting and sometimes novel ways these can be proved. Successful students taking this unit will not only be able to follow and determine if a proof is correct, but become proficient at mathematical reasoning.

700284.1 Mathematics 1 (WSTC Prep)

Credit Points 10 **Level** Z

Assumed Knowledge

Mathematics Year 10 equivalent

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

This unit has been designed to enhance students' numeracy skills and their understanding of basic mathematical concepts taught in high school mathematics. The topics include arithmetic and algebra, elementary functions, and basic geometry and trigonometry. The unit will prepare students and help them follow more advanced topics in Mathematics 2, Mathematics for Engineers Preliminary and Mathematics for Engineers 1, as well as various other Engineering and ICT units.

300672.2 Mathematics 1A

Credit Points 10 Level 1

Assumed Knowledge

Mathematics achieved at Bands 5-6, or knowledge equivalent to 300830 Analysis of Change.

Equivalent Units

200189 Concepts of Mathematics

Incompatible Units

200031 Mathematics for Business, 200237 Mathematics for Engineers 1

Unit Enrolment Restrictions

Students may complete the three units Quantitative Thinking, Analysis of Change and Maths 1A in the following order: 300831 Quantitative Thinking, 300830 Analysis of Change, 300672 Mathematics 1A. This means that students may complete 300831 before attempting 300830, but not after. 300830 and 300831 may be attempted before 300672, but not after. Students may not enrol in 300831 and 300830 or 300831 and 300672 or 300830 and 300672 in the same teaching session. Students enrolled in the Bachelor of Engineering (Honours), Bachelor of Engineering or Bachelor of Engineering Science may not enrol in any of the units 300830, 300831 or 300672.

Special Requirements - Essential Equipment

Students are required to have a Scientific calculator and access to a computer with mathematical software packages installed.

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This Level 1 unit provides a solid foundation in the theory and applications of differential calculus, as well as some introductory work on complex numbers. It is the first of two units developing aspects of calculus.

300673.2 Mathematics 1B

Credit Points 10 Level 1

Prerequisite

300672.2 Mathematics 1A

Equivalent Units

200189 - Concepts of Mathematics

Incompatible Units

200031 - Mathematics for Business, 200237 - Mathematics for Engineers 1

Unit Enrolment Restrictions

This unit is not available to students enrolled in the Bachelor of Engineering (Honours), Bachelor of Engineering or Bachelor of Engineering Science.

Special Requirements - Essential Equipment

Scientific calculator

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This Level 1 unit provides a solid foundation in the theory and applications of integral calculus, as well as some introductory work on linear algebra and infinite sequences and series. It is the second of two units developing aspects of calculus.

700146.4 Mathematics 2 (WSTC Prep)

Credit Points 10 Level Z

Assumed Knowledge

Mathematics year 10 equivalent.

Prerequisite

Students enrolled in 7162 Diploma in Engineering Extended, 7138 Diploma in Information and Communication Technology Extended - ICT, 7139 Diploma in Information and Communication Technology Extended, 7140 Diploma in Information and Communication Technology Extended - Information Systems and 7141 Diploma in Information and Communication Technology (Health Information Management) Extended must pass 700284 Mathematics 1 prior to enrolling in this unit.

Equivalent Units

900086 - Mathematics 2 (UWSC)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

Special Requirements - Essential Equipment

Students must have a non-programmable scientific calculator.

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This unit has been specifically designed for students who need to refresh or upgrade their understanding of basic mathematical concepts taught in high school mathematics. The topics include basic arithmetic and algebra, elementary functions, geometry, trigonometry and coordinate geometry.

200237.4 Mathematics for Engineers 1

Credit Points 10 Level 1

Assumed Knowledge

HSC Mathematics achieved at Band 5 or 6. This is the minimum requirement.

Prerequisite

Students enrolled in 3740 Bachelor of Engineering (Honours) or 3689 Bachelor of Engineering must have passed 300743 Mathematics for Engineers Preliminary otherwise permission is required.

Equivalent Units

14505 Engineering Mathematics 1; 200195 Mathematical Methods A; 200196 Mathematical Methods B; 700019 Mathematics for Engineers 1 (WSTC); 700101 Mathematics for Engineers 1 (WSTC Assoc Deg)

Incompatible Units

200031 Mathematics for Business; 200189 Concepts of Mathematics; 300672 Mathematics 1A; 300673 Mathematics 1B

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This unit is the first of two mathematics units to be completed by all students enrolled in an engineering degree during their first year of study. The content covers a number of topics that underpin the later-stage engineering mathematics units. The subject matter includes: differential and integral calculus of a single variable, complex numbers, aspects of matrix algebra, vectors, and some elementary statistics and probability theory. The aim of this unit is to introduce a number of key mathematical concepts needed in the study of Engineering, and to provide a solid foundation for the follow-on unit Mathematics for Engineers 2.

700101.2 Mathematics for Engineers 1 (WSTC AssocD)

Credit Points 10 **Level** 1

Assumed Knowledge

HSC Maths achieved at Band 5 or 6. This is the minimum requirement.

Prerequisite

700103.1 Mathematics for Engineers Preliminary (UWSC Assoc Deg)

Equivalent Units

200237 - Mathematics for Engineers 1, 700019 - Mathematics for Engineers 1 (WSTC)

Incompatible Units

300672 - Mathematics 1A, 300673 - Mathematics 1B, 200191 - Fundamentals of Mathematics, 300743 - Mathematics for Engineers Preliminary

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College in 7022 Associate Degree in Engineering

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The content of this unit covers a number of topics in mathematics essential to the study of engineering. The subject matter includes: matrix algebra, complex numbers, vectors, functions and inverse functions, differential and integral calculus of a single variable and some elementary statistics and probability theory.

700019.7 Mathematics for Engineers 1 (WSTC)

Credit Points 10 **Level** 1

Prerequisite

700100.3 Mathematics for Engineers Preliminary (WSTC)

Students must pass 700100 Mathematics for Engineers Preliminary before enrolling in this unit. Note: this prerequisite does not apply to students in courses 7006 Diploma in Engineering or 7010 Diploma in Engineering Fast Track.

Equivalent Units

200237 - Mathematics For Engineers 1, 700101 - Mathematics for Engineers 1 (WSTC Assoc Deg)

Incompatible Units

300672 - Mathematics 1A, 300673 - Mathematics 1B, 200191 - Fundamentals of Mathematics

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College unless specific permission has been granted by the School of Computing, Engineering and Mathematics. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

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The content of this unit covers a number of topics that underpin the later-stage engineering mathematics units. The subject matter includes: differential and integral calculus of a single variable, complex numbers, aspects of matrix algebra, vectors and some elementary statistics and probability theory.

200238.2 Mathematics for Engineers 2

Credit Points 10 **Level** 1

Prerequisite

200237.3 Mathematics for Engineers 1

Equivalent Units

700022 Mathematics for Engineers 2 (WSTC); 700102 Mathematics for Engineers 2 (WSTC Assoc Deg)

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This unit is the second of two mathematics units to be completed by students enrolled in an Engineering degree during their first year of study. The content covers a number of topics that build on the calculus knowledge from Mathematics for Engineers 1. The subject matter includes: ordinary differential equations, Laplace transforms and multi-variable calculus.

700102.2 Mathematics for Engineers 2 (WSTC AssocD)

Credit Points 10 **Level** 1

Prerequisite

700101.1 Mathematics for Engineers 1 (UWSC Assoc Deg)

Equivalent Units

200238 - Mathematics for Engineers 2, 700022 - Mathematics for Engineers 2 (WSTC)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College in 7022 Associate Degree in Engineering

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The content of this unit covers a number of topics that build on the student's calculus knowledge from Mathematics for

Engineers 1. The subject matter includes: ordinary differential equations, Laplace transforms and multi-variable calculus.

300743.3 Mathematics for Engineers Preliminary

Credit Points 10 **Level** 1

Equivalent Units

700100 - Mathematics for Engineers Preliminary (WSTC), 700103 - Mathematics for Engineers Preliminary (WSTC Assoc Deg)

Incompatible Units

200195 - Mathematical Methods A, 200191 - Fundamentals of Mathematics, 200237 - Mathematics for Engineers 1, 700019 - Mathematics for Engineers 1 (WSTC)

Unit Enrolment Restrictions

All students entering the Bachelor of Engineering (Honours) and Bachelor of Engineering Science will be enrolled in this unit. Students from the Bachelor of Engineering (Honours) course who have sufficient background knowledge in mathematics may attempt a readiness test to allow them to move directly to Mathematics for Engineers 1 if they pass this test.

Special Requirements - Essential Equipment

Scientific calculator

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This unit is specifically designed for students enrolling in the Bachelor of Engineering (Honours) and Bachelor of Engineering Science degree courses, who do not have a mathematical background in differential and integral calculus. The content of the unit consists of topics in arithmetic and algebra, trigonometry and trigonometric functions, logarithmic and exponential functions, differential and integral calculus.

700103.2 Mathematics for Engineers Preliminary (WSTC AssocD)

Credit Points 10 **Level** 1

Equivalent Units

300743 - Mathematics for Engineers Preliminary; 700100 - Mathematics for Engineers Preliminary (WSTC)

Incompatible Units

200191 - Fundamentals of Mathematics

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College in 7022 Associate Degree in Engineering.

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This unit covers the fundamental mathematical concepts and techniques necessary for the study of Engineering. Topics include Arithmetic and Algebra, Trigonometry, Functions, and Introductory Differential and Integral calculus.

700100.4 Mathematics for Engineers Preliminary (WSTC)

Credit Points 10 **Level** 1

Prerequisite

Students enrolled in 6033 Diploma in Engineering/Bachelor of Engineering Studies, 7033 Bachelor of Engineering (WSTC First Year Program), 7034 Diploma in Engineering or 7162 Diploma in Engineering Extended must pass 700146 Mathematics 2 (WSTC Prep) before enrolling in this unit. Students enrolled in 7066 Diploma in Engineering Extended or 7082 Bachelor of Engineering Extended (WSTC First Year Program) must pass 700203 Mathematics 3 (WSTC Prep) before enrolling in this unit.

Equivalent Units

300743 - Mathematics for Engineers Preliminary, 700103 - Mathematics for Engineers Preliminary (WSTC Assoc Deg)

Incompatible Units

200191 - Fundamentals of Mathematics

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

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This unit covers the fundamental mathematical concepts and techniques necessary for the study of Engineering. Topics include Arithmetic and Algebra, Trigonometry, Functions, and Introductory Differential and Integral calculus.

301077.1 Mathematics for Industrial Design

Credit Points 10 **Level** 1

Assumed Knowledge

Students should have assumed knowledge of any two units of English plus at least two units of Business Studies, Visual Arts, Physics or HSC Mathematics.

Equivalent Units

200191 - Fundamentals of Mathematics

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This unit builds confidence and fluency in applying mathematical skills in the context of design work. Students will practice measuring and calculating the areas and volumes of manufactured objects and proposed designs. They will use trigonometry to develop 2D and 3D scale drawings and will use statistics to inform designs, for example when using ergonomic data. They will explore the geometry of curves and will be introduced to the use of mathematical symmetries, sequences and patterns as design tools. Basic matrix operations and linear algebra are a foundation for design work involving software algorithms.

102489.1 Meaning in Language

Credit Points 10 **Level** 2

Assumed Knowledge

Knowledge of introductory linguistic terminology, specifically in morphology and syntax.

Prerequisite

101945.2 Introduction to Linguistics

Equivalent Units

101947 - Pragmatics

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This unit introduces students to how meaning is constructed in language. It gives an overview of context-free meaning (semantics) and context-dependent meaning (pragmatics). Students will learn how we can encode and access meaning in communication and how this can be studied scientifically. This unit builds on and expands knowledge and methods developed in other linguistics units, especially Structure of Language and Pragmatics. It further connects to more advanced units, in particular Historical Linguistics, Second Language Acquisition, Bilingualism, Sociolinguistics and Discourse Analysis.

300764.1 Mechanical Design

Credit Points 10 **Level** 3

Assumed Knowledge

This subject assumes that the student has undertaken first and second year studies in Western Sydney University engineering courses or equivalent.

Prerequisite

300040.1 Mechanics of Materials AND **300035.2** Kinematics and Kinetics of Machines

Equivalent Units

300478 - Design of Servo-Systems

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This unit introduces students to the design of machine components. The unit covers the design of components to ensure their functionality, strength and durability. Components designed include drive components, gears, shafts, belt drives, and bearings and structural components, welds and treaded fasteners.

301018.1 Mechanical System Design

Credit Points 10 **Level** 7

Assumed Knowledge

The students are assumed to have a good understanding on basics of mechanical design, fundamentals and advanced topics in mechanics of materials, fundamentals on fluid mechanics and heat transfer and thermal dynamics.

Unit Enrolment Restrictions

Students must be enrolled in the Master of Engineering, Graduate Certificate in Engineering or Bachelor of Research Studies / Master of Research.

Special Requirements - Essential Equipment

Engineering analysis package - SolidWorks available in SCEM Computer Labs

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This unit advances students understanding on product design and development of machine components and assemblies using systems engineering approaches. The unit covers a review on the design of main components of machinery to ensure their functionality, strength and durability, which includes drive components - gears, shafts, belt drives, and bearings, and structural components - welds and treaded fasteners. The machine assembly design is delivered based on systems engineering. Academic skills on research and communication are ensured to be achieved through conducting systems engineering approached-based mechanical system design projects.

300040.2 Mechanics of Materials

Credit Points 10 **Level** 2

Prerequisite

300463.2 Fundamentals of Mechanics

Equivalent Units

300039 Mechanics and Materials; 700116 Mechanics of Materials (WSTC Assoc Deg)

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Mechanics of Materials is the study of the stresses and deformation of a body made of any elastic solid material, and how these are related to the body's shape and the load applied to it. This unit looks at how and why structural components including bars and beams deform and break. It concentrates on how these are affected by the geometry of the body and loading. Types of loadings considered include normal loads, torsional loads and bending loads. The main objective of the unit is to introduce students to the aspects of stress, strain and internal force development in the components and the methods to determine the deformation and deflections of the components. Energy methods and impact loadings are also considered.

700116.2 Mechanics of Materials (WSTC AssocD)

Credit Points 10 **Level** 2

Prerequisite

700113.2 Fundamentals of Mechanics (WSTC AssocD)

Equivalent Units

300040 - Mechanics of Materials

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College in 7022 Associate Degree in Engineering.

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Mechanics of Materials is the study of the stresses and deformation of a body made of any elastic solid material and how these are related to the body's shape and the load applied to it. This unit looks at how and why structural components including bars and beams deform and break. It concentrates on how these are affected by the geometry of

the body and loading. Types of loadings considered include normal loads, torsional loads and bending loads. The main objective of the unit is to introduce students to the aspects of stress, strain and internal force development in the components and the methods to determine the deformation and deflections of the components. Energy methods and impact loadings are also considered.

300487.3 Mechatronic Design

Credit Points 10 **Level** 3

Prerequisite

300040.2 Mechanics of Materials

Equivalent Units

300041 - Mechatronic Design 1, 300042 - Mechatronic Design 2

The aim of the unit is to integrate basic skills of mechanics, mechanical systems, and automation in the practice of engineering design (Design for X and system engineering) as applied to mechatronic devices and systems. The ability to perform detailed design analysis on important machine elements as bearings, brakes, clutches, shaft and motor in a system is the intended outcome of undertaking this unit and project-based tasks will form part of the learning process to build up team work experience.

300600.3 Mechatronic System Design

Credit Points 10 **Level** 7

Assumed Knowledge

Equivalent Bachelor of Engineering degree.

Incompatible Units

300512 - Servo Systems Design (PG), 300191 - Mechatronic System Design

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

Special Requirements - Essential Equipment

vUWS site SCEM Computer Lab SolidWorks MS Office Suite ANSYS MDSIGN

This unit will advance the skills of mechanics, mechanical systems and automation in the practice of engineering design as applied to mechatronic devices and systems. The ability to perform detailed design analysis of machine elements as well as control systems as applicable to manufacturing and process machinery is the intended outcome of undertaking this unit and project-based tasks will form part of the learning process and team work experience.

300826.1 Medical Microbiology

Credit Points 10 **Level** 3

Prerequisite

300833.1 Microbiology 1 AND **300896.1** Microbiology 2

Equivalent Units

300233 - Medical Microbiology, 300749 - Medical Microbiology

Special Requirements - Essential Equipment

Students require lab coat, safety glasses and closed in shoes for laboratory classes

Infectious diseases worldwide are the most common cause of illness. Medical microbiology is subdivided into four areas: virology, bacteriology, mycology (the study of fungi) and parasitology. The rapid evolution of microbes means that this is an area that does not remain static. This unit has a modern approach to the study of the balance between the host, humans, and the very large army of potential invaders. Students will embark on a journey into the world of pathogenic micro-organisms exploring the molecular mechanisms by which these override host defences leading to disease. Infectious diseases of the human body systems as well those of the immunocompromised and infections contracted in the healthcare setting (nosocomial) are discussed. The theory will be supported with laboratory experience representing diagnostic procedures for the identification of infectious agents.

400813.2 Medical Research Project

Credit Points 60 **Level** 3

Assumed Knowledge

Knowledge from successful completion of years 1 and 2 of Bachelor of Medicine, Bachelor of Surgery (MBBS).

Prerequisite

400861.1 Foundations of Medicine 1 AND **400862.1** Foundations of Medicine 2

Unit Enrolment Restrictions

This program requires the background of at least two years of a medical degree before it can be successfully attempted. It will therefore be available only to currently enrolled Western Sydney University medical students as part of an intercalated year leading the Bachelor of Medical Research. Corequisite: Must pass two of the following- 300786 Methods of Scientific Researching, 400864 Research Methods (Quantitative and Qualitative), 400863 Foundations of Research and Evidence-Based Practice.

This unit is the principal component in the Bachelor of Medical Research. It aims to give students, enrolled in the Western Sydney University MBBS, the opportunity to develop their critical thinking and gain a more detailed experience in medical research than is provided in the medical course. It consists of a research project in any area of medical research for which the School can provide suitable supervision. Students will study the relevant literature, develop and conduct the program of research with the assistance of their supervisor, take part in research seminars in their research group, and present the results as a dissertation. The main learning outcomes are a subset of the 15 Learning Tasks/Outcomes for the medical course as a whole, but will be achieved at a considerably higher level than is expected in the main MB BS program. The task

numbers relate to the complete set in the MB BS learning outcomes.

300892.1 Medical Science Project

Credit Points 10 **Level** 3

Equivalent Units

300542 - Biomolecular Science Project

Unit Enrolment Restrictions

Students must be enrolled in 3577 Bachelor of Medical Science, 3673 Bachelor of Medical Science, 3674 Bachelor of Medical Science (Nanotechnology) or 3682 Bachelor of Medical Science (Advanced). Successful completion of 80 credit points at Level 2 or 3.

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Students will undertake a short research project specific to the field of Medical Science. This will involve undertaking a review of the literature and generating appropriate hypotheses that will subsequently be tested and analysed. Findings will be presented orally and as a written manuscript.

401095.2 Mental Health and Substance Abuse

Credit Points 10 **Level** 2

Prerequisite

401067.2 Paramedic Practice 1

Corequisite

401068.1 Paramedic Practice 2

Unit Enrolment Restrictions

Students must be enrolled in 4669 Bachelor of Health Science (Paramedicine).

Special Requirements - Essential Equipment

Students are expected to have a complete WSU student paramedic uniform as described in the paramedicine student uniform guide. No uniform means the student is unable to complete in practical classes or undertake emergency ambulance placement. Students are expected to have their own stethoscope, safety goggles, penlight torch and sphygmomanometer.

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This unit introduces students to mental health and behavioural presentations, and emergencies arising from legal and illegal substance use. Students will explore the epidemiology, pathophysiology, manifestation, recognition, assessment and management of common mental health problems, behavioural presentations, and cases involving legal and illegal drug use in the context of paramedicine. Students will practice techniques for managing these presentations from an interpersonal communication perspective and a clinical management perspective. Acute and sub-acute presentations will be discussed, with specific attention given to the role of the paramedic regarding risk assessment, counselling, and health promotion. Legalities associated with management of behaviourally disturbed or cognitively impaired patients will be discussed, and issues relating to multi-agency care, collaboration and co-operation will be examined.

300848.1 Metabolism

Credit Points 10 **Level** 2

Prerequisite

300936.1 Functional Proteins and Genes

Equivalent Units

300220 - Biochemistry 2; 300548 - Human Metabolism & Disease

Incompatible Units

300227 - General Biochemistry

Special Requirements - Essential Equipment

Safety glasses, Lab coat, enclosed footwear and Laboratory Notebook

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Organisms degrade food molecules to generate energy and converts excess food molecules into internal fuel stores. This unit will cover topics including: bioenergetics; the structures of key molecules; glycolysis, gluconeogenesis, glycogen synthesis and breakdown; fatty acid oxidation and synthesis; amino acid catabolism; urea synthesis; citric acid cycle; electron transport and oxidative phosphorylation. Emphasis will be on the regulation and integration of these pathways, including their responses to hormonal regulation. The effects of altered dietary and hormonal status on metabolic pathways and their consequences for the organism will be discussed.

101909.1 Methods of Reading

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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This unit aims to build the skills of reading, interpretation and theoretical and contextual analysis that are critical to the study of literary texts, skills that define scholarship in the discipline of English. Focusing on a sustained and careful study of a small number of literary texts the unit provides an in-depth exploration of technical approaches to close reading, cultural and historical contexts for the production and reception of the texts, and different theoretical approaches to their interpretation. The selected primary texts (one novel, one play and a selection of poems) will span two or three literary/historical periods.

300833.1 Microbiology 1

Credit Points 10 **Level** 2

Prerequisite

300802.1 Biodiversity OR **300816.1** Cell Biology

Equivalent Units

300300 - Microbiology 1

Incompatible Units

300331 - General Microbiology

Special Requirements - Essential Equipment

Students are required to purchase a laboratory manual, lab coat, safety goggles and enclosed shoes

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In this unit students will use an inquiry-based approach to explore the origin and diversity of microorganisms and their significance in the environment, in foods and industry as well as in health and disease. Students will be introduced to the structure, reproduction, classification, cultivation and enumeration of bacteria, viruses, fungi and protists. The conditions required for growth and survival of microorganisms will be studied as well as physical and chemical methods of control. In laboratory classes students will develop skills in culturing and observing microorganisms and in designing experiments to test microbiological concepts. This unit is a pre-requisite for Microbiology 2 and Level 3 Microbiology units.

300896.1 Microbiology 2

Credit Points 10 **Level** 2

Assumed Knowledge

Knowledge of the major groups of microorganisms and their structure and functions including DNA and key metabolic pathways.

Prerequisite

300833.1 Microbiology 1

Equivalent Units

300321 - Microbiology 2

Special Requirements - Essential Equipment

Students must have appropriate personal protective equipment (laboratory coat and splash resistant safety spectacles)

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The unit focuses on the origins of genetic variation and the process of gene regulation in prokaryotes and explores the metabolic diversity of microorganisms from a variety of habitats and their application in industry and biotechnology. Using published scientific literature, students will learn how scientists research functional microbial physiology in the postgenomic era. The principles and applications of recombinant DNA techniques are discussed. Laboratory classes introduce students to techniques used to study microbial physiology and biotechnology based on microbial metabolism, such as microbial fuel cells and development of environmental biosensors.

300044.2 Microcontrollers and PLCs

Credit Points 10 **Level** 2

Prerequisite

300025.2 Electronics OR **300021.1** Electrical Fundamentals

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The aim of this unit is for students to develop an understanding of the hardware, architecture and the assembly language of microcontrollers and to control a mechanical system with a programmable logic controller (PLC). The unit looks at the applications of timers, interrupts and serial ports. Furthermore, the general

approach in designing a microcontroller in mechanical systems will be studied. It uses an Omron PLC to control 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.

300076.3 Microprocessor Systems

Credit Points 10 **Level** 2

Prerequisite

300018.2 Digital Systems 1

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This unit introduces students to the internal structure of microprocessors and its fundamental operations. Topics include assembly language programming, interrupt processing, CPU functions, memory organization, and peripheral programming. Intel 8088 microprocessor will be discussed in great detail. Embedded processor will also be covered.

401030.2 Midwifery Knowledge 1

Credit Points 10 **Level** 1

Corequisite

401002.2 Bioscience 1 AND **401219.1** Midwifery Professional Practice 1

Unit Enrolment Restrictions

Students must be enrolled in 4684 Bachelor of Midwifery.

Special Requirements - Essential Equipment

Essential Equipment: Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit introduces students to the meaning of birth in society and the historical and social contexts of midwifery, from its early beginnings, to its current professional standing. The philosophy of midwifery and the role of the midwife within a continuity of care framework will be explored with a particular focus on the provision of care in the antenatal period. This will include approaches for working in partnership with women and their families. Students will investigate, identify and access scientific information and research in order to develop academic literacy at a beginning level. They will identify the principles of communication and explore educational resources for childbirth.

401032.2 Midwifery Knowledge 2

Credit Points 10 **Level** 1

Prerequisite

401030.1 Midwifery Knowledge 1 AND **401219.1** Midwifery Professional Practice 1

Corequisite

401031.1 Bioscience for Midwifery AND **401220.1** Midwifery Professional Practice 2

Unit Enrolment Restrictions

Students must be enrolled in the 4684 Bachelor of Midwifery.

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit introduces students to midwifery knowledge for childbirth within a woman centred partnership model. It provides the theoretical foundations to equip students in understanding the role of the midwife during late pregnancy, labour and birth and the initial care of the newborn. The educational, psychological and social needs of women are explored and integrated with learning from the Bioscience for Midwifery unit. The unit briefly introduces students to midwifery care related to the immediate postnatal and newborn period including lactation and breastfeeding.

401034.2 Midwifery Knowledge 3

Credit Points 10 **Level** 2

Prerequisite

401032.2 Midwifery Knowledge 2

Corequisite

401221.1 Midwifery Professional Practice 3

Unit Enrolment Restrictions

Students must be enrolled in 4684 Bachelor of Midwifery.

Special Requirements - Essential Equipment

Essential Equipment: Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit provides students with the midwifery knowledge related to the postnatal period. It will focus on maternal postnatal and newborn care including infant feeding, bonding and attachment. Breastfeeding is a core maternity indicator and is a focus for improving public health. Midwifery skills and knowledge to assist women in the preparation, initiation and establishment of breastfeeding will be examined as well as the historical and social contexts of infant feeding and challenges that this and other problems may pose for women. The midwives role in supporting women who are breastfeeding is addressed including the need to offer consistent evidence-based information.

401226.1 Midwifery Practice - Global Maternal Health

Credit Points 10 **Level** 3

Prerequisite

401223.1 Midwifery Professional Practice 5 AND **401036.1** Complex Care 1

Equivalent Units

401043 Midwifery Practice - Models of Care

Unit Enrolment Restrictions

Students must be enrolled in 4684 Bachelor of Midwifery.

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit will provide students with an opportunity to explore the full scope of midwifery practice from a global perspective. Students will gain an understanding of the role midwifery plays within the broader context of women's health both in Australia and globally. It will provide an opportunity for students to experience an alternative midwifery model. Students will undertake a three week practice placement. The practice placement can be located locally, nationally or internationally. The purpose of this placement is for students to consider the role of midwifery and its impact on improving women's health in a range of settings. It will support the development of skills in assessing the need and rationale for the provision of midwifery services in different environments and settings.

401219.1 Midwifery Professional Practice 1

Credit Points 10 **Level** 1

Corequisite

401030.1 Midwifery Knowledge 1

Equivalent Units

401045 Introduction to Midwifery Practice Experience

Unit Enrolment Restrictions

Students must be enrolled in 4684 Bachelor of Midwifery.

Special Requirements - Essential Equipment

Calculator, Western Sydney University Midwifery Uniform for Clinical Placement and final skill assessment, and a watch with a second hand. Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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In this unit students will learn the necessary midwifery skills for the provision of woman-centred antenatal care. In a

simulated practice environment students will gain practical skills to provide midwifery care to the woman and her supportive others during pregnancy. This unit will also focus on preparing students for clinical placement. The importance of work health and safety and effective communication and documentation will be reinforced. This unit will include recruitment of women for the continuity of care experience.

401220.1 Midwifery Professional Practice 2

Credit Points 10 **Level** 1

Prerequisite

401219.1 Midwifery Professional Practice 1 AND 401030.1 Midwifery Knowledge 1

Corequisite

401032.1 Midwifery Knowledge 2

Equivalent Units

401033 Midwifery Practice Experience 1

Unit Enrolment Restrictions

Students must be enrolled in 4684 Bachelor of Midwifery.

Special Requirements - Essential Equipment

Calculator, Western Sydney University WSU Midwifery Uniform for Clinical Placement and final skill assessment, and a watch with a second hand. Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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In this unit students will develop skills for the provision of midwifery care across the birthing continuum. The primary focus of this unit will be the acquisition of skills for supporting women during normal pregnancy and birth. Students will apply knowledge gained from Midwifery Knowledge 1 and 2 in simulated practice environments and will gain a comprehensive understanding of the practical aspects of midwifery care for women experiencing normal labour and birth. Students will gain practical experience in designated clinical areas and will follow women through pregnancy, birth and the postnatal period in a continuity of care experience.

401221.1 Midwifery Professional Practice 3

Credit Points 10 **Level** 2

Prerequisite

401220.1 Midwifery Professional Practice 2 AND 401031.1 Bioscience for Midwifery

Corequisite

401034.1 Midwifery Knowledge 3

Equivalent Units

401035 Midwifery Practice Experience 3

Unit Enrolment Restrictions

Students must be enrolled in 4684 Bachelor of Midwifery.

Special Requirements - Essential Equipment

Students will require a calculator for maths in tutorials and CPU; Western Sydney University uniform for clinical placement and final skill assessment, watch with a second hand. Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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In this unit students will learn the necessary midwifery skills for the provision of woman centred post birth care. In a simulated practice environment students will gain practical skills to provide midwifery care to both the woman and her baby up until six weeks postpartum. The importance of effective communication and documentation will also be reinforced. This unit will also include blocks of practical experience in designated clinical areas and the provision of continuity of care.

401222.1 Midwifery Professional Practice 4

Credit Points 10 **Level** 2

Prerequisite

401221.1 Midwifery Professional Practice 3 AND 401034.1 Midwifery Knowledge 3

Corequisite

401036.1 Complex Care 1

Equivalent Units

401038 Midwifery Practice Experience 3

Unit Enrolment Restrictions

Students must be enrolled in 4684 Bachelor of Midwifery.

Special Requirements - Essential Equipment

Calculator, Western Sydney University Midwifery Uniform for Clinical Placement and final skill assessment, and a watch with a second hand. Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

.....

In this unit students will develop the necessary skills to provide midwifery care to women and neonates with complex health needs. In lab based simulation environments students will gain confidence in providing midwifery care following the detection of deviations from normal. Students will gain practical experience in designated clinical areas and will follow women through pregnancy, birth and the postnatal period in a continuity of care experience.

401223.1 Midwifery Professional Practice 5

Credit Points 10 **Level** 3

Prerequisite

401222.1 Midwifery Professional Practice 4

Corequisite

401039.1 Complex Care 2 AND 401040.1 Collaborative Care AND 401225.1 Psychosocial Issues in the Perinatal Period

Equivalent Units

401042 Midwifery Practice Experience 5

Unit Enrolment Restrictions

Students must be enrolled in 4684 Bachelor of Midwifery.

Special Requirements - Essential Equipment

Calculator, Western Sydney University Midwifery Uniform for Clinical Placement and final skill assessment, and a watch with a second hand. Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

.....

In this unit students will further develop midwifery skills for the management of complications and emergency situations. In simulated practice environments students will gain the skills necessary to work collaboratively with interdisciplinary colleagues. Students will gain practical experience in designated clinical areas and will follow women through pregnancy, birth and the postnatal period in a continuity of care experience.

401224.1 Midwifery Professional Practice 6

Credit Points 10 **Level** 3

Prerequisite

401223.1 Midwifery Professional Practice 5 AND 401039.1 Complex Care 2 AND 401040.1 Collaborative Care AND 401225.1 Psychosocial Issues in the Perinatal Period

Corequisite

401226.1 Midwifery Practice - Global Maternal Health

Equivalent Units

401044 Midwifery Practice Experience 5

Unit Enrolment Restrictions

Students must be enrolled in 4684 Bachelor of Midwifery.

Special Requirements - Essential Equipment

Calculator, Western Sydney University Midwifery Uniform for Clinical Placement and final skill assessment, and a watch with a second hand. Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit provides the opportunity for students to consolidate their knowledge and skills in preparation for their role as a midwife. Students will be assessed across the seven standards of the Midwife standards for practice. Students will gain practical experience in designated clinical areas and will follow women through pregnancy, birth and the postnatal period in a continuity of care experience.

300960.4 Mobile Applications Development

Credit Points 10 **Level** 3

Prerequisite

For students enrolled in 3506 Bachelor of Computer Science - 300147 Object Oriented Programming OR 300582 Technologies for Web Applications. For students enrolled in 3639 Bachelor of Information and Communications Technology - 300581 Programming Techniques. For students enrolled in 3684 Bachelor of Information and Communications Technology (Advanced) - 300903 Programming Techniques (Advanced). For students enrolled in 3687 Bachelor of Information Systems, 3688 Bachelor of Information Systems Advanced, 3744 Bachelor of Information Systems/Bachelor of Business, 3745 Bachelor of Information Systems Advanced/Bachelor of Business or 6036 Diploma in Information and Communications Technology/Bachelor of Information Systems - 300582 Technologies for Web Applications.

Corequisite

For students enrolled in 3506 Bachelor of Computer Science - 300147 Object Oriented Programming.

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This unit teaches technologies and programming languages for developing applications on common mobile platforms, such as Android and iOS. Students will learn skills for developing programs on the above platforms, along with in-class sample applications that highlight platform-specific implementation details.

300043.4 Mobile Robotics

Credit Points 10 **Level** 4

Prerequisite

300463.2 Fundamentals of Mechanics

Unit Enrolment Restrictions

Successful completion of 160 credit points

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To develop an understanding of the basic concepts involved in Mobile Robotics. The areas of mobile robot mechanics, localisation, map building and path planning of mobile robots will be introduced. Various sensors and their applications in mobile robotics are also to be introduced.

101978.1 Modern Australian Poetry and Poetics

Credit Points 10 **Level** 2

Equivalent Units

63270 - Poetry and Poetics, 100880 - Poetry and Poetics

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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This unit examines Australian poetries of the 20th and 21st centuries in context of parallel events in international poetry. It looks at histories and definitions of poetic 'innovation' and asks how Australian poetry has dealt with different waves of modernism. It studies dialogues between local and international avant-gardes, and surveys new poetic genres emerging in online environments. The unit aims to enrich students' critical understanding of poetry and poetics, and where relevant, to enhance their own creative writing practice. Topics addressed include poetic tradition and counter-tradition; form and experiment; colonialism, exile and belonging; literary communities; critical histories; digital and e-poetries.

301158.1 Modern Construction Enterprises

Credit Points 10 **Level** 4

Assumed Knowledge

An understanding of the construction industry context and familiarity with organisational structures common in construction businesses.

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In this unit the pace of change in the construction industry will be addressed. Particular emphasis is placed on the ways in which construction businesses need to adapt their practices to deal with increased digitisation, industrialisation and globalisation. The impact of disruptive innovation on 'back of house' operations in construction enterprises will be studied and trends identified.

301159.1 Modern Construction Projects

Credit Points 10 **Level** 4

Assumed Knowledge

An understanding of standard building processes and familiarity with how they impact on project delivery.

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In this unit, accelerating changes in the way construction projects are procured and delivered will be studied. Innovations relating to pre-site construction and to productivity measurement will be evaluated. Quality assurance and risk management will be considered in the light of new project delivery systems. Ways to improve end user satisfaction with construction project delivery will be addressed.

102000.1 Modern European History and Politics

Credit Points 10 **Level** 1

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This unit introduces students to the major events and ideas that have shaped Europe in the late modern period. There is a strong focus on the dramatic events of the twentieth century following the demise of empire, and the subsequent rise of competing nationalisms and radical politics. The unit

is concerned equally with the cultural and social contexts in which these events occurred. Students will study the diverse ways in which historians have approached the history of the twentieth century from the study of high politics to the focus on daily life. Methodological questions that will be addressed include the relative role of individual agency and of structural constraints in explaining historical change. The unit will encourage students to evaluate the period as a whole drawing on scholarship which engages the modernity - democracy - violence nexus.

100271.3 Modern Japanese History

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit considers Japan's trajectory from the battle of Sekigahara in 1600 until the atomic bombings in 1945. We will examine the samurai and ritual suicide, the tea ceremony and Zen Buddhism. We will read tales told by those who frequented the "floating world," populated by wealthy merchants, geisha, and sumo wrestlers. We will consider the creation of Imperial Japan, and we will study its emergence as the only non-Western Great Power. We will enquire into Japan's fledgling democracy in the 1920s, and its descent into militarism and aggression in the 1930s. Finally, we will consider Japan's participation in World War II: its victories, its losses, its propaganda, and its abject defeat.

101033.4 Modernism

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit aims to introduce students to important works of literature from the earlier part of the 20th century. Throughout the course we will be concentrating on literature but will make reference to other art forms (in particular the visual arts) to provide the intellectual context necessary to understanding the ideas of the period. There will be a close study of a small number of important novels or works of poetry from the period, with a close consideration of techniques of writing and the way these techniques contribute to an understanding of the themes in the works.

101001.3 Modernity and Cinema

Credit Points 10 **Level** 3

Equivalent Units

VP215A - Modernity and Cinema

Unit Enrolment Restrictions

Successful completion of 60 credit points

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This unit will engage with the question of how social and aesthetic issues interact in films by examining specific

questions which are related to cinema history. Issues of identity will be used to focus upon the ways in which historical contexts interrelate with artistic practice. The unit will consider the process of creating emotions, the consideration of techniques of production and the manipulation of cinema language, the use of narrative or non-narrative form to convey the sense of reality, (or the unreal, the uncertain).

300817.1 Molecular Biology

Credit Points 10 **Level** 2

Prerequisite

300936.1 Functional Proteins and Genes OR **300845.1** Genetics OR **300848.1** Metabolism

Equivalent Units

300234 - Molecular Biology, 300549 - Human Molecular Biology

Special Requirements - Essential Equipment

Laboratory Safety Glasses, Laboratory coat, closed shoes, laboratory note book

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Molecular biology is central to many fields of the biomedical and natural sciences, and includes genetics, immunology, cell biology, biochemistry, and forensics. Through comparative studies of different organisms, this unit will describe fundamental concepts and methods in the study of DNA and RNA and the application of molecular biology in advanced fields such as genomics. Subjects will include DNA replication; transcriptional, post-transcriptional and epigenetic regulation of gene expression; microarrays, and an introduction to bioinformatics. Practical work will provide opportunities to become familiar with the methods of molecular biology, with an emphasis on the development of problem solving and analytical skills

300927.2 Molecular Medicine

Credit Points 10 **Level** 3

Prerequisite

Students are required to pass two units from the following - 300820 - Genes, Genomics and Human Health, 300845 - Genetics, 300817 - Molecular Biology, 300936 - Functional Proteins and Genes, 300848 - Metabolism, 300850 - Advanced Cell Biology

Equivalent Units

300551 - Molecular Basis of Disease, 300407 - Mammalian Molecular Medicine

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Molecular Medicine is an inquiry based capstone unit that integrates core concepts in molecular and cell biology with a focus on cancer as a framework to discuss autoimmune, infectious and genetic diseases. This unit aims to enhance critical thinking for the professional environment and prepares students for future innovations in prevention, management and cure of catastrophic diseases. Current research, diagnosis, treatment and policy issues, related to health and disease states, are placed in the context of real world experiences and changing imperatives.

300912.1 Molecular Pharmacokinetics

Credit Points 10 **Level** 3

Prerequisite

300849.1 Physical Chemistry

Equivalent Units

300475 - Molecular Pharmacokinetics

Special Requirements - Essential Equipment

Students are required to have a laboratory coat and safety glasses.

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This Unit examines the Kinetics of the bioavailability, degradation and removal of drug molecules from the body and its response to drug structure, stability and delivery system.

301127.1 Mortuary Practice

Credit Points 10 **Level** 3

Prerequisite

300935.2 Evidence and Crime Scene Management AND **300898.3** Appendicular Skeleton AND **301126.1** Concepts in Human Anatomy AND **300806.1** Forensic Science

Corequisite

300894.2 Anatomy of the Thorax and Abdomen

Unit Enrolment Restrictions

Students must be enrolled in 3733 BMedSc (Forensic Mortuary Practice).

Special Requirements - Essential Equipment

University 'uniform'/shirt

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This unit introduces the student to processes and techniques used in a forensic mortuary context. Students will undertake activities that prepare them for clinical placement with an operational forensic mortuary setting, which includes a brief placement within a NSW Forensic and Analytical Science Service (FASS) facility or NSW Organ and Tissue Donation Service. Student must have demonstrated full compliance with NSW Health placement requirements in the first year of their candidature before enrolling in this unit and 301128 Advanced Mortuary Practice. This unit, together with completion of 301128 Advanced Mortuary Practice is essential for graduates of this course seeking employment as a forensic mortuary technician with FASS.

102273.2 Motion Design

Credit Points 10 **Level** 2

Assumed Knowledge

Students are expected to have computer literacy including working in a networked environment on a Macintosh computer; management, transportation and storage of digital information and digital production processes such as scanning, pdf production and file storage. Literacy with image manipulation software - Photoshop and Illustrator is required.

Prerequisite

101922.1 Web and Time-based Design OR **102317.1** Visual Effects OR **300582.3** Technologies for Web Applications

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This unit introduces students to the fundamentals of motion design practice. Students will discover how elements of static graphic design can be incorporated with sequence, time, space and sound to enhance the exchange of information and meaning in a variety of project contexts and kinetic media outcomes. Additionally, students will discover the purpose and function of motion design and be able to identify professional pathways associated with these skills and knowledge. Students will be exposed to a range of motion design preproduction and production methods, from fundamentals and guidelines to experimental and expressive approaches. Students will learn the importance of planning, mapping and evaluating linear narrative, in combination with the introduction of key software supported by online video courses, for successful motion design outcomes.

400886.3 Motor Control and Skill Acquisition

Credit Points 10 **Level** 3

Equivalent Units

100679 - Motor Control and Learning; 400895 - Aquatic Sports

Unit Enrolment Restrictions

Students must be enrolled in 4658 Bachelor of Health Science (Sport and Exercise Science), 4659 Bachelor of Health Science (PDHPE), 4742 Bachelor of Health Science (Health and Physical Education) Pathway to Teaching (Secondary), 4747 - Bachelor of Health Science (Health and Physical Education) or 6001 Diploma in Health Science/ Bachelor of Health Science (Health and Physical Education)

Special Requirements - Essential Equipment

Calculator or smart device

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Motor Control and Skill Acquisition is an investigation of the physiological and psychological processes involved in both the control and the learning of movement. As such, it considers the control mechanisms which are innate to the learner, how these mechanisms change by virtue of both maturation and experience, and how the latter type of changes may be facilitated by manipulation of the learning environment.

400891.2 Movement and Skill Development

Credit Points 10 **Level** 1

Prerequisite

300361.3 Introduction to Human Biology AND **400880.2** Fundamentals of Exercise Science

Incompatible Units

400794 - PDHPE: Exploring Movement Skills, 400796 - PDHPE: Efficient Movement Principles

Unit Enrolment Restrictions

Students must be enrolled in course 4659 Bachelor of Health Science (PDHPE), 4549 - Bachelor of Health Science (PDHPE), 4742 Bachelor of Health Science (Health and Physical Education)-Pathway to Teaching (Secondary), 4747 Bachelor of Health Science (Health and Physical Education) or 6001 Diploma in Health Science/ Bachelor of Health Science (Health and Physical Education)

Special Requirements - Essential Equipment

Calculator/ ipad

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This unit examines the scientific basis for movement and sports skill development. An understanding of the principles of movement and motor skill and how they apply to performance is examined through a range of movement tasks required for track and field athletics and some team sports. Laboratory activities will focus upon the basic movement tasks of throwing, jumping, balancing, striking, running and rotary activities. An examination of the instruments used in efficient movement analysis is undertaken.

401180.1 Musculoskeletal Disorders and Imaging

Credit Points 10 **Level** 2

Assumed Knowledge

Completion of all core units to this semester/year of study is assumed knowledge

Prerequisite

400905.2 Introduction to Podiatry AND **401181.1** Pathomechanics and Podiatric Medicine AND **400881.3** Functional Anatomy

Corequisite

400933.2 Podiatry Pre-Clinical

Equivalent Units

400936 - Podiatric Techniques 1B

Unit Enrolment Restrictions

The unit is Podiatry specific and restricted only to students enrolled in courses 4708 Bachelor of Podiatric Medicine and 4709 Bachelor of Podiatric Medicine (Honours). The unit will be building on previous clinical skills. It is essential that students have been able to demonstrate baseline competencies in theoretical content, patient management, infection control and safe work practices (i.e completed the preceding prerequisite units). Students must meet all inherent requirements for the podiatry course.

Special Requirements - Essential Equipment

Western Sydney University Podiatric Medicine UniClinic Uniform

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This unit will introduce students to clinical and theoretical foundations of musculoskeletal disorders that can impact on the function of the lower extremity and reduce patient quality of life. Musculoskeletal disorders including rheumatic diseases, inflammatory arthropathies, connective tissue disorders, bone disease and tumours will be covered. Advanced assessment evaluation will be taught with a

Units

focus on diagnostic imaging techniques including ultrasound, X-rays, magnetic resonance imaging, computer tomography and bone scans. This will assist in the clinical diagnosis of disease processes that present in podiatric settings

401199.1 Musculoskeletal Physiotherapy A

Credit Points 10 **Level** 3

Prerequisite

400982.3 Core Competencies in Physiotherapy Practice AND **400981.2** Clinical Pharmacology AND **400871.2** Professional Health Competencies AND **101614.2** Psychology and Health

Corequisite

400997.3 Exercise Rehabilitation AND **400986.1** Neurological Physiotherapy AND **401197.1** Clinical Education (General)

Equivalent Units

400983 - Orthopaedic Physiotherapy

Unit Enrolment Restrictions

Students must be enrolled in 4706 Bachelor of Physiotherapy and 4733 Bachelor of Physiotherapy (Hons).

Special Requirements - Essential Equipment

Students are required to wear their student uniform when attending practical viva exams and a student name badge.

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This unit builds on the knowledge and skills developed in the first two years of physiotherapy study. It focuses on client assessment and evidence-based management in musculoskeletal physiotherapy contexts. This will require strong communication skills, ethical and professional behaviour and an appreciation of interprofessional care. Professional competencies addressed in this unit include developing skills in musculoskeletal physiotherapy assessment, interpretation and prioritisation of findings along with the implementation and evaluation of appropriate treatment strategies.

401200.1 Musculoskeletal Physiotherapy B

Credit Points 10 **Level** 3

Assumed Knowledge

Human anatomy, human physiology and pathophysiology equivalent to that covered in 400868 - Human Anatomy and Physiology 1, 400869 - Human Anatomy and Physiology 2 and 400138 - Pathophysiology 1.

Prerequisite

401197.1 Clinical Education (General)

Equivalent Units

400999 - Musculoskeletal Physiotherapy

Unit Enrolment Restrictions

Students must be enrolled in 4706 - Bachelor of Physiotherapy and 4733 - Bachelor of Physiotherapy (Hons). Students in this program are required to participate fully in practical classes. This involves disrobing to shorts and singlet or swim-suit equivalent in mixed gender classes. Students will practice hands-on physiotherapy

examination and treatment techniques on both genders, and will personally experience these techniques which will be performed on them by other students and relevant academic staff.

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This unit focuses on client assessment and treatment using manual physiotherapy techniques. An emphasis is placed on diagnostic reasoning and evaluation, understanding the implications of pathology in a physiotherapy context, prioritising problems and integrating manual therapy with other physiotherapy treatments. This requires strong communication skills, ethical and professional behaviour and an appreciation of interprofessional care.

102573.1 Music and Critical Thought

Credit Points 10 **Level** 3

Equivalent Units

101529 - Music and Meaning, 101742 - Music and Philosophy

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Music and Critical Thought considers definitions of music and how music is constituted. It asks how we encounter and experience music, and what makes a piece of music aesthetically pleasing and who decides. It asks whether the meanings attributed to music are as much intrinsic as they are cultural. The unit considers emotions and feelings in music, and why we would listen to music if it makes us feel sad. When music is used as an instrument of torture is it still music? How do we view the composer in the musical work? Where does creativity reside in a musical work? Is there a difference between musical thinking and thinking about music? Is music representational or immanent or both? Is music political? The unit provides an historical overview of the important debates and considers the poststructuralist critique of these debates. Students will design a question chosen from the topics covered in the unit, and retrieve and critically evaluate the appropriate literature for their project.

102429.1 Music Careers Research

Credit Points 10 **Level** 3

Equivalent Units

101532 - Music in Theory and Practice

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What music careers were sustainable in the past? How has the music industry changed over the last 3 decades? What would sustainable music careers look like in the future? Students will work on research projects that focus on music careers and the music industry. They will gain a good understanding of the careers available in music, including the qualifications and skills needed for jobs in music. They will also evaluate the research focused on music careers, including assessing the currency of websites that provide lists of music careers. Students will evaluate the degree to which the Bachelor of Music learning outcomes sufficiently prepare graduates for their chosen careers. Students will be introduced to a range of relevant methodologies. They will be expected to propose a topic, report on the progress of their research, retrieve and critically evaluate an appropriate literature for their project, and discuss the

methods intended or used for their data collection and analysis.

102555.1 Music Group Performance

Credit Points 10 **Level** 2

Assumed Knowledge

It is assumed that students can perform at level 2 standard (determined either by having successfully completed some pre-requisite units or through an audition process) where they demonstrate musical fluency on chosen instrument/voice/other media.

Prerequisite

101524.2 Free and Notated Music Performance OR **101525.2** Introduction to Music Performance OR **102554.1** Music Performance 2 OR **102553.1** Music Performance 1

Equivalent Units

101091 - Music Performance 3: Australian Repertoire, 101521 - Collaboration and Live Music Performance

Special Requirements - Essential Equipment

Students with portable musical instruments (guitars, woodwind instruments, brass instruments, etc.) are required to bring them to this unit.

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This unit replaces 101521- Collaboration and Live Music Performance. Through a series of lectures and workshops, students will pursue two main threads of practical study imperative to any working musician. The first is collaboration, which will be practised in workshops (with repertoire determined by lecturers) and probed in a written task. The second area of study is the development of a suite of onstage skills and strategies including physical gesture, audience communication and facility with musical equipment.

102553.1 Music Performance 1

Credit Points 10 **Level** 1

Assumed Knowledge

Students to undertake audition/interview. On entry into this unit students need to demonstrate that they can perform music at an equivalent level of the audition standard.

Equivalent Units

101525 - Introduction to Music Performance

Special Requirements - Essential Equipment

Students with portable musical instruments (guitars, woodwind instruments, brass instruments, etc) are required to bring them to this unit as well as their own music.

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In this unit, students will develop their performance skills through participating in three modularised workshops. The first two workshops will run in parallel with each other and will be rotated: module 1 will focus on improvisation; and module 2 will focus on (western or non-western) music from an oral tradition. Module 3 will then extend students' skills in reading and arranging music, utilising their preferred performing media (voice or instrument). In this third module, they will perform set technical tasks (such as scales and arpeggios) and, in groups, they will arrange and

perform one set piece of music from a basic notated score, and they will choose, arrange and perform another piece. They will perform one piece chosen from modules 1, 2, or 3 in a public venue on campus. The unit will also introduce basic music business skills, such as how to advertise and mount a public performance.

102554.1 Music Performance 2

Credit Points 10 **Level** 1

Assumed Knowledge

It is assumed that students can perform at a level (determined either by having successfully completed any pre-requisite units) or through an audition process where they demonstrate musical fluency on chosen instrument/voice/other media.

Prerequisite

101525.2 Introduction to Music Performance OR **102553.1** Music Performance 1

Equivalent Units

101089 - Music Performance 2: Notated and Free Musics, 101524 - Free and Notated Music Performance

Special Requirements - Essential Equipment

Students with portable musical instruments (guitars, woodwind instruments, brass instruments, etc) are required to bring them to this unit as well as their own music.

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Students will extend their performance skills acquired in Music Performance 1 through participating in three modularised workshops. The first two workshops will run in parallel with each other and will be rotated: module 1 will focus on free and notated improvisation; and module 2 will focus on choral performance. Module 3 will extend the skills of reading and arranging music in students' preferred performing media (voice or instrument). In this module, they will perform set technical tasks (such as scales and arpeggios), adding to the skills acquired in Music Performance 1 and, continuing to work in small groups, they will arrange and perform one set piece of music from a basic notated score, and choose, arrange and perform another piece that is different from the music performed in Music Performance 1. They will perform one piece chosen from modules 1, 2, or 3 in a public venue on campus. The unit will also introduce music business skills, such as how to publicise and mount a performance, and how to upload a sample of work to YouTube.

102558.1 Music Production

Credit Points 10 **Level** 1

Equivalent Units

101140 - Digital Musics 1: Musical Contexts, 101526 - Introduction to Sound Technologies

Unit Enrolment Restrictions

Available places limited by technological infrastructure.

.....

This unit is the first of two foundation level units providing a practical overview of the basic concepts and applications of electronic and digital music production technology in current music and media arts practice. Areas to be

examined include the fundamentals of musical acoustics, stereo recording and mixing techniques, and an introduction to MIDI systems and sequencing. Technical concepts are contextualised within a survey of contemporary music production practice.

102564.1 Music Theory Fundamentals

Credit Points 10 **Level** 1

Assumed Knowledge

It is assumed that students have had experience with music either as performers, composers and song writers or through music technology. While an understanding of music theory is advisable, experience working aurally with these concepts is acceptable.

Equivalent Units

101086 - Composition, Craft and Theory 1, 101520 - Basic Composition, Craft and Theory

Unit Enrolment Restrictions

Students undertake audition/interview.

Special Requirements - Essential Equipment

The computer programs Auralia (aural training) and Musition (music theory training) will be used to do the online Aural and Theory quizzes, and these will be downloaded by students or accessed on the computers in the music area. Students will also sit multiple choice theory quizzes on vUWS.

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This unit introduces basic theoretical knowledge such as scales, intervals, chords, progressions, melody-writing, etc. It provides aural training, some keyboard skills and an introduction to Finale software. Students will learn to analyse harmony and to compose melodies and simple chordal accompaniments, leading to the ability to compose in song and theme and variation forms. Some classes will entail working with keyboards and the aural classes will build on the theoretical content presented in lectures.

102551.1 Music, Culture and Discourse

Credit Points 10 **Level** 2

Equivalent Units

101134 - Contemporary Arts: Music (Histories), 101523 - Cultural Paradigms and Music

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This unit builds a critical theoretical foundation for music while preparing students for more advanced musicological studies. It examines cultural theories, focusing on theories of authorship, identity, discourse, corporeality, aesthetics, and power, and their relationship to music. It explores the intersection of music with technology, considers how musical taste is formed, and looks at the ways in which institutional practices shape music and musicians. It considers the relationships to music of the overarching paradigms of humanism and post-humanism, liberalism and neo-liberalism, and modernism and postmodernism. Completing this unit will teach students how to critically evaluate music, to recognise how power functions in music's historical narratives, and to question the assumptions on which these narratives are based. It

provides students with a broadly informed view of current issues in contemporary music practice.

102495.1 Mystical Islam: The Emergence of Sufism in World History

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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Global Islamism has projected a particularly severe, even militant face of Islam across much of the world. Much less well known is the fact that for much of its history Islam has had a quite different face: it has been mystical and contemplative more than proselytising. The Sufist tradition was formed within the first three centuries of Islamic history; its influence spread far and wide across the Muslim World where "Sufis" played a pivotal role in engaging non-Muslim peoples both within and on the fringes of their world. The unit explores religious pluralism and an alternative narrative in Islam.

102343.1 Napoleon: the Making of a Legend

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit appraises the achievement of Napoleon Bonaparte and the manner in which he has been portrayed in his own propaganda, by his contemporaries and by historians. It also considers the historical impact of the Napoleonic and anti-Napoleonic myths in the history of France and Europe. At the heart of the module is the paradox of Napoleon's enduring popularity in France, despite his responsibility for crushing defeats in 1812-1814 and again 1815.

102181.2 Nation, Power and Difference

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit examines the concepts of nation, power and difference as part of understanding and engaging with difference and diversity. It begins with an examination of different theoretical perspectives on nation from Benjamin Anderson's Imagined Communities to the impact of current economic, technological and social changes such as the digital revolution in information technology, global financial crises and mass movement of peoples as a result of wars and other crises on the concept of the nation state. Building on this, the unit engages students in an exploration of differences and relations of power focussing on gender, sexuality, and race. Students will examine these relational concepts and the operation of power in the Australian context and have the opportunity within assignments to explore these differences in other nation states. The unit

provides students with critical skills and knowledge to critique, engage and intervene in relations of difference in different social and political national contexts.

300932.1 Natural Science Research Methods

Credit Points 10 **Level** 2

Equivalent Units

300290 - Research Communities and their Environments, 300662 - Research Methods, 300561 - Animal Research

Unit Enrolment Restrictions

Successful completion of 60 credit points at Level 1.

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This unit aims to introduce students to the theories and practices underpinning the scientific processes. Students will learn to identify an issue, review the literature to identify gap(s) and formulate a hypothesis or a question to address the gap(s). Students will then explore research methods and designs to safely and ethically conduct an experiment or study to collect data to answer the hypothesis/question. They will also learn to analyse and interpret the data and report on the findings of the research in a written format. The unit is structured so that lectures will provide theoretical expertise and workshops will reinforce student learning with practical experience. This knowledge and skills are essential for stage 3 units and a career in science.

301105.1 Negotiation in the Built Environment

Credit Points 10 **Level** 3

Equivalent Units

200485 - Decision Making for Construction Professionals

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Construction and Property development is the most complex activity in the Australian economy. There are many professional groups involved in the sector. This unit will train students in the negotiation skills required to successfully complete projects from the perspective of a construction manager, building surveyor, planner, civil engineer, construction lawyer and property developer.

200613.2 Negotiation, Bargaining and Advocacy

Credit Points 10 **Level** 3

Prerequisite

200300.2 Managing People at Work

Equivalent Units

61430 - Negotiation, Bargaining and Advocacy

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In 'Negotiation, Bargaining and Advocacy' students identify and assess contrasting approaches to negotiation and identify the importance of strategy and judgement in negotiation. Students develop their skills through a team-based online negotiation and a critique of the experience of this negotiation. Through case studies, students examine conciliation, mediation and arbitration with a particular focus on advocacy practice in industrial tribunals. An important theme in the unit is the assessment of the contextual and

regulatory factors that shape negotiation, bargaining and advocacy practice. This aspect draws on contemporary debates in these spheres most notably concerning the Australian context.

300143.4 Network Security

Credit Points 10 **Level** 3

Assumed Knowledge

Good understanding of the principles of information security, and computer networks and internets.

Prerequisite

300094.2 Computer Networking Fundamentals OR **300565.2** Computer Networking OR **300946.1** Computer Networking (Advanced)

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This unit is concerned with the protection of information transferred over computer networks. It includes discussion of techniques for securing data transported over local and wide area networks. At the conclusion of the unit students will have a good understanding of the practical aspects of securing a computer network against internal and external attacks.

300575.2 Networked Systems Design

Credit Points 10 **Level** 3

Prerequisite

300095.3 Computer Networks and Internets

Equivalent Units

300088 - Broadband Networking

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This unit builds on and consolidates the skills and knowledge gained in Computer Networking and Computer Networks and Internets. Students successfully completing this unit will acquire the necessary design skills and knowledge required to build and configure enterprise scale networks. The unit provides students with an opportunity to develop problem-solving techniques and decision-making skills to resolve networking issues. Students completing this unit and its prerequisites should also now be prepared to attempt world recognized network industry certification (CCNA).

300754.3 Neuroanatomy

Credit Points 10 **Level** 3

Prerequisite

300818.1 Introduction to Physiology OR **400868.2** Human Anatomy and Physiology 1

Equivalent Units

300322 - Neuroanatomy, 400964 - Clinical Neurosciences, 400166 - Clinical Neurosciences

Unit Enrolment Restrictions

Successful completion of 80 credit points. Due to space limitations, students must be enrolled in the following courses: 3577 Bachelor of Medical Science, 3673 Bachelor of Medical Science, 3682 Bachelor of Medical Science (Advanced), 3657 Bachelor of Medical Science/Bachelor of

Information and Communication Technology, 4661 Bachelor of Health Science/Master of Podiatric Medicine, 4662 Bachelor of Health Science/Master of Physiotherapy, 4663 Bachelor of Health Science/Master of Occupational Therapy, 4666 Bachelor of Health Science (Honours)/Master of Podiatric Medicine, 4668 Bachelor of Health Science (Honours)/Master of Physiotherapy, 4711 Bachelor of Occupational Therapy, 4712 Bachelor of Occupational Therapy (Honours) or 6002 Diploma in Science/Bachelor of Medical Science. Note: Enrolment of students in other programs may be approved by the Unit Coordinator for the Summer session, subject to vacancies and meeting equivalent prerequisite knowledge. Please lodge a Rule Waiver request for enrolment.

Special Requirements - Essential Equipment

Laboratory coat

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This unit builds on the human anatomy and physiology studied in first and second year, equipping students with detailed knowledge of functional neuroanatomy, with particular emphasis on the central nervous system. Cadaver specimens are used to facilitate the learning of spatial relationships between structures. The study of neurological function and dysfunction integrates many previously learned scientific principles.

400986.2 Neurological Physiotherapy

Credit Points 10 **Level** 3

Prerequisite

400982.4 Core Competencies in Physiotherapy Practice AND **300754.3** Neuroanatomy AND **400981.2** Clinical Pharmacology AND **400864.3** Research Methods (Quantitative and Qualitative) AND **400866.3** Culture, Diversity and Health

Corequisite

400997.3 Exercise Rehabilitation AND **401199.1** Musculoskeletal Physiotherapy A AND **401197.1** Clinical Education (General)

Unit Enrolment Restrictions

Students must be enrolled in 4706 Bachelor of Physiotherapy or 4733 Bachelor of Physiotherapy (Hons).

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This unit builds on the knowledge and skills developed in the first 2 years of physiotherapy study. It focuses on client assessment and evidence-based management in acute neurological physiotherapy contexts. This will require strong communication skills, ethical and professional behaviour and an appreciation of interprofessional care. Professional competencies addressed in this unit include introductory skills in neurological physiotherapy assessment, interpretation and prioritisation of findings along with the implementation and evaluation of appropriate treatment strategies.

400998.3 Neurological Rehabilitation

Credit Points 10 **Level** 3

Assumed Knowledge

Human anatomy, human physiology, neuroanatomy, and pathophysiology

Prerequisite

400986.1 Neurological Physiotherapy AND **401197.1** Clinical Education (General)

Unit Enrolment Restrictions

Students must be enrolled in 4706 Bachelor of Physiotherapy or 4733 Bachelor of Physiotherapy (Hons). Students in this program are required to participate fully in practical classes. This involves disrobing to shorts and singlet or swim-suit equivalent in mixed gender classes. Students will practice hands-on physiotherapy examination and treatment techniques on both genders, and will personally experience these techniques which will be performed on them by other students and relevant academic staff.

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This unit focuses on client assessment and evidence-based physiotherapy management in neurological rehabilitation. This will require strong communication skills, ethical and professional behaviour and an appreciation of interprofessional care. Professional competencies addressed in this unit include clinical reasoning in neurological physiotherapy assessment and treatment, implementation and evaluation of evidence-based interventions and management of complex conditions.

800192.1 Neuroscience Methods

Credit Points 10 **Level** 7

Assumed Knowledge

Students should have at least background/undergraduate knowledge in one or more of the following: mathematics, biology, chemistry, physics, physiology, electronics or similar

Equivalent Units

800172 - Quantitative Methods in Neuroscience

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A multidisciplinary team will provide an introduction to several aspects of neuroscience including cellular, computational, behavioural and biomedical neuroscience. The program will provide a strong foundation in modern neuroscience for those wishing to pursue further independent research in the field. With a focus on real-world neuroscience research, topics include introductory biology, computational modelling, biosignal acquisition, signal processing and data mining. The unit will include lecture and laboratory work.

102662.1 New Genres in Research Writing

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit focuses on new, innovative, interdisciplinary genres of writing arising after the putative end of critique and with the rise of non-representational thought. These new writing practices mix genres and meld theoretical, critical and creative modes. Focusing on fictocriticism, creative nonfiction, documentary fiction and the multi-media essay, we explore the experimental ethos and affective and new materialist methodologies to which these forms lend themselves. Students will develop a body of original creative-critical work in any genre through a series of seminars and writing workshops.

200849.1 New Venture Finance

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course or be enrolled in the Master of Information and Communications Technology (Advanced), Master of Information and Communications Technology or Master of Research.

New Venture Finance introduces students to essential theories, frameworks, principles and requirements for understanding and seeking funding for new ventures, with a focus on investor philosophy. A dynamic approach to seeking initial and subsequent funding for developing innovations and entrepreneurship is emphasised in this unit, recognizing that most new ventures are not fully funded as they launch. The unit also explores approaches related to new ventures at the stage at which they are maturing into defined businesses. Students will be introduced to commercialisation and strategies for the development of business plans designed to seek funding and support.

300488.4 Numerical Methods in Engineering

Credit Points 10 **Level** 3

Prerequisite

[200238.2](#) Mathematics for Engineers 2 AND [300040.2](#) Mechanics of Materials

The finite element method is a powerful numerical tool for analysing a wide range of engineering problems. The objective of this unit is to introduce the basic and fundamental principles of the finite element techniques by primarily focusing on their applications in the area of structural, solid and soil mechanics.

400204.2 Nursing Honours Thesis (Part-time)

Credit Points 60 **Level** 5

Assumed Knowledge

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

This unit aims to provide an opportunity for students to plan and implement a research project related to nursing which results in the production of a thesis. In consultation with an academic supervisor, the student will select a topic,

conduct a literature review, design a research study, and report the findings and their implications. Attendance and participation at research seminars/colloquia is expected.

400202.2 Nursing Honours Thesis A (Full-time)

Credit Points 20 **Level** 5

Assumed Knowledge

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

This unit aims to provide an opportunity for students to plan and implement a research project related to nursing which results in the production of a thesis. In consultation with an academic supervisor, the student will select a topic, conduct a literature review, design a research study, and report the findings and their implications. Attendance and participation at research seminars/colloquia is expected.

400203.2 Nursing Honours Thesis B (Full-time)

Credit Points 40 **Level** 5

Assumed Knowledge

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

This unit aims to provide an opportunity for students to plan and implement a research project related to nursing which results in the production of a thesis. In consultation with an academic supervisor, the student will select a topic, conduct a literature review, design a research study, and report the findings and their implications. Attendance and participation at research seminars/colloquia is expected.

300933.1 Nutrition and Health 1

Credit Points 10 **Level** 2

Assumed Knowledge

Sound understanding of undergraduate Level 1 chemistry and biology.

Equivalent Units

300649 - Nutrition and Health 1

Nutrition is the science that applies knowledge of the nutritional components of foods to ensure the wellbeing of the human body. This unit presents the basic principles and concepts of human nutrition including nutrient requirements, functions, deficiency symptoms and the effects of dietary excess as well as energy balance and weight control. Students will gain a general understanding of the macronutrients such as carbohydrates, proteins and lipids in human metabolism, energy release and common diseases and disorders such as obesity, malnutrition, diabetes etc. The role of water and electrolytes in cellular and tissue functions, as well as alcohol metabolism and its impact on human health will be covered. The micronutrients are also studied, including the properties, general requirements, functions and the effects of

deficiency and excess consumption of vitamins and essential minerals.

300934.1 Nutrition and Health 2

Credit Points 10 **Level** 2

Assumed Knowledge

An understanding of human nutrition, food and the metabolism of micro- and macro-nutrients and computer literacy.

Prerequisite

300933.1 Nutrition and Health 1

Equivalent Units

300650 - Nutrition and Health 2

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This unit explores the basic concepts of human nutrition in relation to various stages of the lifespan from infants to late adulthood. It also explores nutrition in relation to chronic health conditions such as obesity, cardiovascular disease and eating disorders. Students will learn about the development of the Australian Dietary Guidelines and Nutrient Reference Values. Students will also learn to make informed decisions with regard to nutritionally critical moments of the life span, emerging nutrition opinions or contemporary uses of nutrition in physical activity, sports and chronic health conditions.

300144.5 Object Oriented Analysis

Credit Points 10 **Level** 2

Assumed Knowledge

General understanding of what an information system is and how information systems development is undertaken and • Introductory knowledge about system analysis and design, including - basic problem solving experience in computerised information systems - ability to derive systems requirements from problem definitions - ability to produce system models using process, data, object and network modelling. - understanding design and implementation issues include, (but may not be limited to), elementary database design, input, output and user interface design and prototyping. • General knowledge on programming languages - Understanding difference between procedure programming and object oriented programming - Introductory knowledge of classes and objects and the class construction - Introductory knowledge on object orientation, including encapsulation, inheritance

Prerequisite

300585.2 Systems Analysis and Design

Equivalent Units

700039 Object Oriented Analysis (WSTC)

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The core strength of this unit is to analyse and model business objectives and critical requirements of software systems to be developed using object-oriented (OO) approaches. The system analysis is taken to greater depths within the context of Object Orientation. The Unified Modelling Language version 2.0 (notably use cases, user case diagrams, activity diagrams, class diagrams and sequence diagrams) is used as the modelling standard for

creating OO models in the problem space. The unit also covers the rational unified process methodology and applications of design patterns for software development through practical case studies.

300888.2 Object Oriented Analysis (Advanced)

Credit Points 10 **Level** 2

Assumed Knowledge

General understanding of what an information system is and how information systems development is undertaken and • Introductory knowledge about system analysis and design, including - basic problem solving experience in computerised information systems - ability to derive systems requirements from problem definitions - ability to produce system models using process, data, object and network modelling. - understanding design and implementation issues include, (but may not be limited to), elementary database design, input, output and user interface design and prototyping. • General knowledge on programming languages - Understanding difference between procedure programming and object oriented programming - Introductory knowledge of classes and objects and class construction - Introductory knowledge on object orientation, including encapsulation, inheritance and polymorphism.

Prerequisite

300585.2 Systems Analysis and Design

Incompatible Units

300144 - Object Oriented Analysis

Unit Enrolment Restrictions

Students must be enrolled in 3684 Bachelor of Information and Communications Technology (Advanced)

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The core strength of this unit, as the advanced version of 300144 Object Oriented Analysis, is to analyse and model business objectives and critical requirements of software systems to be developed using object-oriented (OO) approaches. The system analysis is taken to greater depths within the context of Object Orientation. The Unified Modelling Language version 2.0 (notably use cases, user case diagrams, activity diagrams, class diagrams and sequence diagrams) is used as the modelling standard for creating OO models in the problem, solution and background modeling spaces. The unit also covers the rational unified process methodology and applications of design patterns for software development through real world case studies.

700039.3 Object Oriented Analysis (WSTC)

Credit Points 10 **Level** 2

Assumed Knowledge

General understanding of what an information system is and how information systems development is undertaken and Introductory knowledge about system analysis and design, including - basic problem solving experience in computerised information systems - ability to derive systems requirements from problem definitions - ability to produce system models using process, data, object and network modelling. - understanding design and

implementation issues include, (but may not be limited to), elementary database design, input, output and user interface design and prototyping.

Prerequisite

Students enrolled in 7004 Diploma in Information and Communications Technology Fast Track, 7005 Diploma in Information and Communications Technology, 7067 Diploma in Information and Communications Technology Extended, 7041 Bachelor of Information and Communications Technology (WSTC First Year Program), 7134 Diploma in Information and Communications Technology Extended – ICT, 7138 Diploma in Information and Communications Technology Extended - ICT, 7139 Diploma in Information and Communications Technology Extended, 7140 Diploma in Information and Communications Technology Extended - Information Systems, 7163 Diploma in Information and Communications Technology, 6035 Diploma/Bachelor of Information and Communications Technology, 6036 Diploma in Information and Communications Technology/Bachelor of Information Systems, 6039 Diploma/Bachelor of Information and Communications Technology and 6040 Diploma in Information and Communications Technology / Bachelor of Information Systems, must pass 700013 Systems Analysis and Design before enrolling in this unit.

Equivalent Units

300144 Object Oriented Analysis

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diploma courses must have passed 40 credit points of preparatory units in order to enrol in this unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

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The core strength of this unit is to analyse and model business objectives and critical requirements of software systems to be developed using object-oriented (OO) approaches. The system analysis is taken to greater depths within the context of object orientation. The Unified Modelling Language version 2.0 (notably use cases, activity diagrams, class diagrams and sequence diagrams) is used as a modelling standard for creating OO models in the problem space. The unit also covers the rational unified process methodology and applications of design patterns for software development through practical case studies.

300147.4 Object Oriented Programming

Credit Points 10 **Level** 2

Prerequisite

300580.2 Programming Fundamentals

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This unit presents the concepts and principles of programming languages with the emphasis on object oriented paradigm. It addresses the importance of the separation of behaviour and implementation as well as effective use of encapsulation, inheritance and polymorphism. The students will gain intensive training in

programming skills with supervised laboratory sessions and task oriented assignments.

401072.2 Obstetrics and Paediatrics

Credit Points 10 **Level** 3

Prerequisite

401073.1 Paramedic Practice 3 AND **401074.1** Out-of-hospital Medical Care 1

Unit Enrolment Restrictions

Students must be enrolled in 4669 Bachelor of Health Science (Paramedicine).

Special Requirements - Essential Equipment

Students are expected to have a complete WSU student paramedic uniform as described in the paramedicine student uniform guide. No uniform means the student is unable to participate in practical classes or undertake emergency ambulance placement. Students are expected to have their own stethoscope, safety goggles, penlight torch and sphygmomanometer.

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The aim of this unit is to prepare the student for out-of-hospital care and management of obstetric, neo-natal and paediatric emergencies. It focuses on understanding human birth and development, normal and complicated delivery and the changes that occur in the pregnant woman. Developmental changes throughout childhood and the skills required to manage a broad range of clinical paediatric emergencies are explored.

400176.4 Occupation and Ageing

Credit Points 10 **Level** 3

Prerequisite

400908.2 People, Environment and Occupations

Unit Enrolment Restrictions

This is a specialty unit offered as a compulsory core unit of the occupational therapy program. It is profession specific, preparing students to practice as an occupational therapist and not relevant as an elective for non-occupational therapy students. Students must be enrolled in courses 4663 Bachelor of Health Science/Masters of Occupational Therapy and 4664 Master of Occupational Therapy or 4711 Bachelor of Occupational Therapy or 4712 Bachelor of Occupational Therapy.

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In this unit, students will examine the ageing process using the biopsychosocial model, and reflect on their own attitudes towards ageing, including how social stereotypes of older people must be challenged to promote a positive view of this stage of life. Students will gain knowledge about how occupational performance may be impacted due to ageing, including common conditions assessed and treated by occupational therapists. Students will use research evidence to prepare occupational therapy intervention plans that promote quality of life and maximum social participation for clients' and their families.

400169.4 Occupation and Mental Health

Credit Points 10 **Level** 3

Prerequisite

300754.3 Neuroanatomy AND **101614.2** Psychology and Health AND **400908.2** People, Environment and Occupations

Unit Enrolment Restrictions

Students must be enrolled in 4663 Bachelor of Health Science/Masters of Occupational Therapy or 4711 Bachelor of Occupational Therapy or 4712 Bachelor of Occupational Therapy (Honours).

This unit provides an understanding of the impact of major mental illnesses and disorders on occupational participation. These illnesses/disorders are examined from varying perspectives including consumer, recovery, population health and biomedical. Mental health legislation, policies, strategies and standards are examined in relation to clinical practice in this field. Occupational therapy theory, assessments, interventions and outcomes are incorporated together with cross-disciplinary approaches and current evidence to provide a foundation for practice in mental health settings.

400171.4 Occupation and Neurology

Credit Points 10 **Level** 3

Prerequisite

Students enrolled in 4663 Bachelor of Health Science/Masters of Occupational Therapy or 4711 Bachelor of Occupational Therapy 4 must have completed units 300754 - Neuroanatomy and 400908 - People, Environment and Occupations.

Unit Enrolment Restrictions

Students must be enrolled in 4663 Bachelor of Health Science/Masters of Occupational Therapy or 4711 Bachelor of Occupational Therapy or 4712 Bachelor of Occupational Therapy (Honours).

This unit prepares occupational therapy students to work in a variety of settings with individuals who have a neurological condition. The impact of common neurological conditions on the person, their environment and their occupations will be examined. Students will be exposed to a variety of assessments, interventions and evaluation tools suitable for this client population.

400165.4 Occupation and the Environment

Credit Points 10 **Level** 3

Prerequisite

400908.2 People, Environment and Occupations

Unit Enrolment Restrictions

Students must be enrolled in 4663 Bachelor of Health Science/Masters of Occupational Therapy or 4664 Master of Occupational Therapy or 4711 Bachelor of Occupational Therapy.

In this unit students will understand how the environment not only provides a context for the activities people choose to engage in, but also how well they can complete them. Students will learn how the social, cultural, physical and institutional environments that they live in can influence health and well-being, provide structures for social inclusion or exclusion, and enable or limit people to participate in everyday activities. Using an occupational lens, students will gain skills in analysing environmental barriers to occupational performance and modifying environments to increase participation.

300919.1 Occupational Health and Safety

Credit Points 10 **Level** 3

Equivalent Units

300794 - Occupational Health and Safety

Unit Enrolment Restrictions

Successful completion of 60 credit points at Level 1 and 20 credit points at Level 2.

This unit provides students with an essential working knowledge of occupational health and safety (OHS), work health and safety (WHS) legislation and risk management required which is a requirement for graduate employment across a broad range of workplaces and industries. The unit provides a foundation in the principles and practice of hazard identification and risk management, including an introduction to specific workplace hazards such as; moving and fixed plant, electrical, biomechanical (ergonomic), gravitational (slips, trips and falls), manual handling. Students will also explore the chemical, biological and physical hazards that may be encountered in a variety of graduate employment industries, as well as the management of health and safety hazards in relation to current WHS legislation, Codes of Practices and Australian and International Standards.

401123.2 Occupational Justice

Credit Points 10 **Level** 4

Prerequisite

400169.4 Occupation and Mental Health

Corequisite

400165.3 Occupation and the Environment

Equivalent Units

400170 - Occupation and Social Participation

Incompatible Units

400916 - Occupational Justice

Unit Enrolment Restrictions

Students must be enrolled in 4711 - Bachelor of Occupational Therapy or 4712 Bachelor of Occupational Therapy (Honours). This is a specialty unit offered as a compulsory core unit of the occupational therapy program. It is profession specific, preparing students to practice as an occupational therapist and not relevant as an elective for non-occupational therapy students.

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This unit critically examines practice in the community with a focus on social inclusion and occupational justice. Life perspectives of people experiencing occupational injustice are explored. Current and historical ideologies which underpin global and national legislation and policies on human rights are examined. The promotion of occupational participation through occupational therapy practice is outlined. This unit challenges popular myths and stereotypes of people with disabilities. Issues such as de-institutionalisation, duty of care, dignity of risk, choice-making, rights and negligence are critiqued against legal, ethical and personal perspectives. This unit assists students develop critical thinking and reflection skills for practice.

400907.4 Occupational Therapy Practice 1

Credit Points 10 **Level** 1

Prerequisite

400160.4 Introduction to Occupational Therapy

Corequisite

400732.2 Communication in Health

Equivalent Units

400161 - Occupational Therapy Clinical Practice 1

Unit Enrolment Restrictions

Students must be enrolled in 4663 Bachelor of Health Science/Master of Occupational Therapy or 4711 Bachelor of Occupational Therapy. This unit is profession-specific, preparing students to practice as an occupational therapist and not relevant as an elective for non-occupational therapy students.

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This unit introduces students to the principles of professional practice. Students will be provided with learning opportunities through a variety of experiential and community engagement activities that will begin to develop their skills and competence. Professional competencies addressed include communication, documentation, reflection and professional and ethical behaviour. A professional practice placement is incorporated in this unit. Students will complete practice hours in accordance with World Federation of Occupational Therapy accreditation guidelines.

400909.4 Occupational Therapy Practice 2

Credit Points 10 **Level** 2

Prerequisite

400907.4 Occupational Therapy Practice 1 AND **400732.2** Communication in Health

Equivalent Units

400167 - Occupational Therapy Clinical Practice 2

Unit Enrolment Restrictions

Students must be enrolled in 4711 Bachelor of Occupational Therapy or 4712 Bachelor of Occupational Therapy (honours). This is a specialty unit offered as a compulsory core unit of the occupational therapy program. It is profession specific, preparing students to practice as

an occupational therapist and not relevant as an elective for non-occupational therapy students.

Special Requirements - Essential Equipment

Students must have a complete occupational therapy practice placement uniform for placement.

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This unit provides opportunities for students to implement skills and integrate theory with practice. In class students will be provided with learning opportunities through a variety of experiential and self-directed learning exercises that will continue to develop their skills and competence in professional practice. Students will participate in a 75 hour community project placement in accordance with World Federation of Occupational Therapy accreditation guidelines. This placement will allow students to work on one of a wide variety of projects of relevance to occupational therapy.

400910.2 Occupational Therapy Practice 3

Credit Points 10 **Level** 3

Prerequisite

400909.4 Occupational Therapy Practice 2

Corequisite

400169.4 Occupation and Mental Health AND **400171.4** Occupation and Neurology AND **400162.4** Child and Adolescent Occupations

Equivalent Units

400174 - Occupational Therapy Clinical Practice 3A

Unit Enrolment Restrictions

Students must be enrolled in 4663 Bachelor of Health Science/Masters of Occupational Therapy or 4711 Bachelor of Occupational Therapy or 4712 Bachelor of Occupational Therapy (Honours) as this is a specialty unit involving a placement and thus students only from occupational therapy programs are permitted.

Special Requirements - Essential Equipment

Occupational therapy uniform available for purchase on campus.

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This unit will enable students to consolidate academic knowledge and practice skills. On campus practicums will focus on occupational therapy skill development to equip students with the skills to provide occupational therapy interventions during off-site professional practice placements. There will be opportunities to actively participate in assessment, analysis, goal setting, intervention and evaluation under the supervision of an occupational therapist. Students will experience full time work with occupational therapists in practice settings. Students will complete practice hours in accordance with World Federation of Occupational Therapy accreditation guidelines.

401161.1 Occupational Therapy Practice 4 (Honours)

Credit Points 20 **Level** 5

Prerequisite

400910.1 Occupational Therapy Practice 3 AND **400945.1** Honours Research 1

Incompatible Units

400949 - Occupational Therapy Practice 4 (Honours)

Unit Enrolment Restrictions

Students must be enrolled in 4712 Bachelor of Occupational Therapy (Honours). This unit is only relevant to occupational therapy honours students as part of their embedded program of study. This unit will be specifically tailored to accommodate the course and progression requirements of these students, in particular the need to attend fieldwork placements, and therefore would not be relevant as a general elective.

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This unit will allow students to consolidate academic knowledge and practice skills in preparation for becoming a competent beginning practitioner. Students will be expected to actively participate in assessment, analysis, goal setting, intervention and evaluation under the supervision of an occupational therapist. Students will complete practice hours in accordance with World Federation of Occupational Therapy accreditation guidelines. Career development workshops will be conducted to prepare students for entry into the profession of occupational therapy. In addition, honours students will examine their role as beginning practitioner researchers during their placement and the role of research in underpinning clinical decisions.

401126.1 Occupational Therapy Practice 4A

Credit Points 20 **Level** 4

Assumed Knowledge

Completion of all core units is assumed knowledge.

Prerequisite

400910.1 Occupational Therapy Practice 3 AND **401124.1** Occupational Therapy Specialties

Incompatible Units

400915 - Occupational Therapy Practice 4 Workshop

Unit Enrolment Restrictions

Students must be enrolled in 4711 Bachelor of Occupational Therapy. This is a specialty unit offered as a compulsory core unit of the occupational therapy program. It is profession specific, preparing students to practice as an occupational therapist and not relevant as an elective for non-occupational therapy students.

Special Requirements - Essential Equipment

Occupational Therapy student clinical placement uniform.

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This unit is the first of two final clinical placement units in the 4th year of the program. This unit aims to facilitate the transition from student to occupational therapy practitioner by allowing students to consolidate academic knowledge

and practice skills in preparation for becoming a competent beginning practitioner. Students will be expected to actively participate in assessment, analysis, goal setting, intervention and evaluation under the supervision of an occupational therapist. Students will complete practice hours in accordance with World Federation of Occupational Therapy accreditation guidelines.

401127.1 Occupational Therapy Practice 4B

Credit Points 20 **Level** 4

Assumed Knowledge

Completion of all core units is assumed knowledge

Prerequisite

400910.1 Occupational Therapy Practice 3

Corequisite

401126.1 Occupational Therapy Practice 4A

Incompatible Units

400914 - Occupational Therapy Clinical Practice 4

Unit Enrolment Restrictions

Students must be enrolled 4711 Bachelor of Occupational Therapy. This is a specialty unit offered as a compulsory core unit of the occupational therapy program. It is profession specific, preparing students to practice as an occupational therapist and not relevant as an elective for non-occupational therapy students.

Special Requirements - Essential Equipment

Students must have Occupational Therapy student clinical placement uniform.

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This unit is the second of two final clinical placement units in the 4th year of the program. This unit aims to facilitate the transition from student to occupational therapy practitioner by allowing students to consolidate academic knowledge and practice skills in preparation for becoming a competent beginning practitioner. Students will be expected to actively participate in assessment, analysis, goal setting, intervention and evaluation under the supervision of an occupational therapist. Students will complete practice hours in accordance with World Federation of Occupational Therapy accreditation guidelines. This unit also emphasises career planning and preparation for entering the professional world as an occupational therapist.

401122.1 Occupational Therapy Project

Credit Points 10 **Level** 4

Assumed Knowledge

Knowledge of issues and concerns relevant to the occupational therapy profession and occupational therapy clients and consumers. This knowledge will ideally have been gained in part by undertaking several fieldwork experiences in preceding years of the course.

Prerequisite

400865.2 Evidence-Based Practice

Incompatible Units

400913 - Occupational Therapy Project

Unit Enrolment Restrictions

Students must be enrolled in course 4711 Bachelor of Occupational Therapy. This is a specialty unit offered as a compulsory core unit of the occupational therapy program. It is profession specific, preparing students to practice as an occupational therapist and not relevant as an elective for non-occupational therapy students.

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The aim of this unit is for students to critically apply their knowledge of professional theory, practice, research and evaluation skills to the investigation of an occupational therapy professional issue of interest or concern. Students will apply unobtrusive research methods to investigate their chosen topic. Students develop an extensive knowledge of their chosen topic and critically analyse the implications of their findings in terms of theory, policy and contemporary health care practice. Students will synthesise their findings into a scholarly research project report and present their findings at a professional-level capstone student conference.

401124.1 Occupational Therapy Specialties

Credit Points 10 **Level** 4

Prerequisite

[400162.3](#) Child and Adolescent Occupations AND
[400169.3](#) Occupation and Mental Health AND [400176.3](#)
Occupation and Ageing

Incompatible Units

400917 - Occupational Therapy Specialties

Unit Enrolment Restrictions

Students must be enrolled in course 4711 Bachelor of Occupational Therapy. This is a specialty unit offered as a compulsory core unit of the occupational therapy program. It is profession specific, preparing students to practice as an occupational therapist and not relevant as an elective for non-occupational therapy students.

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This unit provides occupational therapy students with the opportunity to select from, and undertake advanced study in, a range of occupational therapy clinical specialty areas. Several streams will run concurrently in this unit representing key clinical areas of specialisation in occupational therapy. Students will be able to focus their study, by selecting a combination of clinical specialty streams. Streams will cover relevant clinical content, examining the unique occupational therapy contribution in each specialty area.

300149.3 Operating Systems

Credit Points 10 **Level** 3

Assumed Knowledge

Basic structure and functioning of computer hardware.

Prerequisite

[300167.3](#) Systems Programming 1

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This unit provides an introduction to the theory and practice of the internal structure, implementation and functionality of

operating systems. The unit is relevant not only for systems programmers, but also for applications developers who need to understand how operating systems control computer hardware, and how they provide convenience, efficiency and security for application development and implementation.

300698.4 Operating Systems Programming

Credit Points 10 **Level** 3

Assumed Knowledge

Students are expected to have a general understanding on computer systems; computer fundamentals, and programming techniques.

Prerequisite

[300581.4](#) Programming Techniques OR [300903.1](#) Programming Techniques (Advanced) OR [300147.4](#) Object Oriented Programming

Equivalent Units

300149 - Operating Systems

Incompatible Units

300943 - Operating Systems Programming (Advanced)

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This unit provides the knowledge of the internal structure and functionality of Operating Systems. An operating system defines an abstraction of hardware behavior and provides a range of services more suitable for ICT application development than what raw hardware could deliver, in terms of convenience, efficiency and security. It is important that ICT Professionals have some understanding of how these services are realized. For ICT Professionals whose role includes supporting the operating system this unit provides the introduction to the relevant theory and practice.

300943.1 Operating Systems Programming (Advanced)

Credit Points 10 **Level** 3

Prerequisite

[300903.1](#) Programming Techniques (Advanced) OR
[300581.2](#) Programming Techniques

Incompatible Units

300689 - Operating Systems Programming, 300149 - Operating Systems

Unit Enrolment Restrictions

Students must be enrolled in 3684 Bachelor of Information and Communications Technology (Advanced)

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This unit provides the knowledge of the internal structure and functionality of Operating Systems. Through the use of case studies the abstraction that Operating Systems provide will be investigated, and techniques for programming with these abstractions will be developed.

300876.1 Organic Chemistry

Credit Points 10 **Level** 2

Prerequisite

300803.1 Essential Chemistry 2

Equivalent Units

300553 - Molecules of Life: Synthesis and Reactivity,
300301 - Organic Chemistry

Special Requirements - Essential Equipment

Splash proof safety glasses and laboratory coat, laboratory notebook and closed shoes are required.

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Organic molecules are at the heart of the chemistry of life and industry. This unit builds on the fundamental chemical principles, exploring reaction mechanisms and the concept of reactivity and stereo- and regio-selectivity of many of the central reactions that form the basis of living processes, modern research, and contemporary industrial transformations. The unit contains a problem-based module on the application of spectroscopic methods to organic structure elucidation, focusing on spectroscopic data and a practical section on organic synthesis. The unit will focus on complex organic molecules including biologically relevant molecules, and examples from chemical industries, medicinal and pharmaceutical industries.

200585.4 Organisational Behaviour

Credit Points 10 **Level** 1

Equivalent Units

MG204A - Organisational Behaviour, 700031 - Organisational Behaviour (UWSC)

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Organisational Behaviour examines individual, group and organisational behaviours and the influence these have on each other. This unit is based on developing skills that can help you navigate through these processes and behaviours. The focus is on participation, to guide students to both reflect on and develop their own skills to become better managers, as well as employees.

200157.4 Organisational Learning and Development

Credit Points 10 **Level** 3

Assumed Knowledge

Students are expected to have understanding of business environments.

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Organisational Learning and Development is a Level 3 undergraduate unit which analyses practices and processes designed to transform and renew organisations, in order to enable them to respond effectively to change. This unit will use case studies and other experientially based activities to promote a better understanding of structural and human resources interventions used to ensure organisational survival in rapidly changing environment.

201001.1 Our Sporting Future

Credit Points 10 **Level** 3

Prerequisite

201000.1 The World of Sport Business

Incompatible Units

200273 - Managing Service and Experience

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Sport has become increasingly globalised, commercialised and professionalised, and is influenced by advances in technology and innovation. It is now recognised that sport can play an important role in areas such as economic regeneration, diplomacy, social integration and improving health and wellbeing. This unit will develop students' understanding of how to encourage participation and drive growth in sports business in the face of a rapidly changing landscape.

400808.4 Outdoor Recreation

Credit Points 10 **Level** 1

Equivalent Units

100666 - Outdoor Recreation 1, 700063 - Outdoor Recreation (WSTC), 102206 - Experience based Outdoor Education

Unit Enrolment Restrictions

Students must be enrolled in 4549 Bachelor of Health Science (Personal Development, Health and Physical Education), 4659 Bachelor of Health Science (Personal Development, Health and Physical Education), 4742 Bachelor of Health Science (Health and Physical Education)-Pathway to Teaching (Secondary), 4747 Bachelor of Health Science (HPE), 4741 Bachelor of Sport Development or 6001 Diploma in Health Science/Bachelor of Health Science (Health and Physical Education).

Special Requirements - Essential Equipment

Suitable footwear and appropriate clothing must be worn during the bushwalk and overnight camp.

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Students will learn about the variety of outdoor recreation and educational pursuits available to individuals, in school or community settings. Through active participation and guided instruction, students will also learn how to supervise specific forms of outdoor recreation and education in activities such as hiking, canoeing and camping. Learning content will reinforce the rationale for the development, administration and delivery of school-based and community outdoor recreation and education programs within Australia.

401074.1 Out-of-hospital Medical Care 1

Credit Points 10 **Level** 2

Prerequisite

400138.3 Pathophysiology 1

Corequisite

401073.1 Paramedic Practice 3

Unit Enrolment Restrictions

Students must be enrolled in 4669 Bachelor of Health Science (Paramedicine).

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The aim of this unit is to extend knowledge and clinical skills required for the assessment and management of cardiovascular, respiratory and neurological medical emergencies. The unit combines pathophysiological principles development of skills and interpretation of diagnostic technology with clinical decision-making to implement advanced life support.

401096.2 Out-of-hospital Medical Care 2

Credit Points 10 **Level** 3

Prerequisite

400868.3 Human Anatomy and Physiology 1 AND
400869.3 Human Anatomy and Physiology 2 AND
401074.1 Out-of-hospital Medical Care 1

Corequisite

401069.1 Paramedic Practice 4

Unit Enrolment Restrictions

Students must be enrolled in 4669 Bachelor of Health Science (Paramedicine)

.....

The aim of this unit is to extend knowledge and clinical skills required for the management of gastrointestinal, renal, genitourinary, gynaecological and endocrine medical emergencies. The unit combines pathophysiological principles with development of skills in the use and interpretation of diagnostic technology with clinical decision-making to implement advanced life support.

401106.2 Paediatric Physiotherapy

Credit Points 10 **Level** 4

Assumed Knowledge

A good understanding of approach to assessment and management of impairments arising from disorders of the musculoskeletal system, neurological system and cardiopulmonary system is desirable. In addition approach to physical activity and/or exercise prescription is also desirable. This knowledge should have been acquired in previous physiotherapy-specific units run in the Physiotherapy program. Knowledge of EBP is also relevant and desirable.

Prerequisite

401197.1 Clinical Education (General) AND **400984.2** Cardiorespiratory Physiotherapy AND **400865.3** Evidence-Based Practice OR **400944.2** Evidence-Based Practice (Advanced)

Corequisite

401107.1 Physiotherapy for Chronic Illness and Disease

Incompatible Units

401047 - Paediatric Physiotherapy

Unit Enrolment Restrictions

Students must be enrolled in 4706 Bachelor of Physiotherapy, 4733 Bachelor of Physiotherapy (Honours) or 4707 Bachelor of Physiotherapy (Honours).

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This unit aims to prepare the student as a competent entry-level practitioner in paediatric physiotherapy. It focuses on understanding the changes which occur from infancy to maturity and the impact of congenital or acquired conditions, or lifestyle diseases causing dysfunction. Clinical and ethical reasoning and family-centred practice are both stressed. The approach will also emphasise the role of physiotherapy within inter-professional teams to prepare for different work settings (acute care, rehabilitation and/or community). The unit integrates prior learning from previous years (especially units related to neurology, musculoskeletal, cardiopulmonary physiotherapy and exercise rehabilitation).

300957.2 Parallel and Distributed Computing

Credit Points 10 **Level** 3

Prerequisite

300565.2 Computer Networking OR **300946.1** Computer Networking (Advanced)

Equivalent Units

300112 - Digital Communication Technology

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Modern computer systems rely increasingly on distributed computing mechanisms, implemented often as clusters, web services, grids and Clouds. Distributed computing systems can provide seamless access to a variety of networked resources, e.g. processing cores, large data stores and information repositories, expensive instruments, and multimedia services for a wide range of applications. This unit provides foundation knowledge and understanding of the basic mechanisms required to implement distributed computing systems, especially Clusters, Grids and Clouds. This includes basic concepts such as virtualization and abstraction, integration, services and SOA, operating systems of distributed systems, the development of distributed applications, network operating systems and middleware. Students will build knowledge of distributed systems and applications and learn about the development trends of distributed systems. Students will learn about virtualization and the role it plays in current computing. They will also investigate how these techniques and algorithms can be used in the design and implementation of distributed systems.

401067.2 Paramedic Practice 1

Credit Points 10 **Level** 1

Prerequisite

401066.1 Introduction to Paramedicine

Unit Enrolment Restrictions

Students must be enrolled in 4669 Bachelor of Health Science (Paramedicine).

Special Requirements - Essential Equipment

Students are expected to have a complete Western Sydney University student paramedic uniform including: - Helmet - Boots - Belt - Hi-visibility wet-weather gear (jacket and pants) - Cargo pants - Long-sleeved shirt - Jumper - Hi-visibility vest - Cap - Safety glasses - Students are expected to have their own stethoscope. All uniform and equipment must be taken to every shift. Students who attend a shift without the necessary equipment will be refused attendance by the Ambulance Service of New South Wales.

.....

This unit allows the student to develop professional and clinical skills and techniques in preparation for paramedic practice. Students will be exposed to manual handling techniques to enable safe lifting and movement of patients and equipment, and discuss principles of infection control and scene safety. Students will learn how to undertake a holistic patient assessment and perform basic diagnostic tests. Students will have the opportunity to practice new skills and become oriented to the prehospital setting during clinical placements on non-emergency transport ambulances, preparing them for an extended emergency ambulance clinical placement in the following semester.

401068.2 Paramedic Practice 2

Credit Points 10 **Level** 2

Prerequisite

401067.2 Paramedic Practice 1 AND **400868.3** Human Anatomy and Physiology 1 AND **400869.3** Human Anatomy and Physiology 2

Unit Enrolment Restrictions

Students must be enrolled in 4669 - Bachelor of Health Science (Paramedicine).

Special Requirements - Essential Equipment

Students are expected to have a complete WSU student paramedic uniform as described in the paramedicine student uniform guide. No uniform means the student is unable to complete in practical classes or undertake emergency ambulance placement. Students are expected to have their own stethoscope, safety goggles, penlight torch and sphygmomanometer.

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This unit focuses on the core competencies for paramedic practice in real world situations. These competencies will be developed through on-campus simulation learning, clinical placements with an emergency ambulance crew over a period of 3 weeks, and through an evidence-based exploration of paramedic practice. The core competencies include communication, documentation, reflections and professional ethical behaviour. In addition, students will practice patient assessment and supervised procedures appropriate to their level.

401073.1 Paramedic Practice 3

Credit Points 10 **Level** 2

Prerequisite

401068.1 Paramedic Practice 2

Corequisite

401074.1 Out-of-hospital Medical Care 1

Unit Enrolment Restrictions

Students must be enrolled in 4669 Bachelor of Health Science (Paramedicine).

Special Requirements - Essential Equipment

Students must have the Western Sydney University student paramedic uniform (pants, long sleeve shirt, polo, safety glasses, safety helmet, non-steel cap black boots, stethoscope, reflective vest and rain jacket).

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This unit continues the development of paramedic professional and clinical skills and techniques in preparation for the second work placement with a paramedic team. Students will further develop patient assessment and examination skills in a systems-based approach. Advanced paramedicine skills will be taught including invasive procedures such as intravenous access, advanced airway management, intraosseous access and advanced life support. The clinical decision making, patient assessment, and communication skills developed in previous units will be drawn together with this content and integrated into simulated case scenarios, preparing students for their second emergency ambulance clinical placement in the following semester. Students will complete up to 5 days of clinical placement in non-state based ambulance service healthcare settings.

401069.2 Paramedic Practice 4

Credit Points 10 **Level** 3

Prerequisite

401073.1 Paramedic Practice 3

Corequisite

401096.1 Out-of-hospital Medical Care 2

Unit Enrolment Restrictions

Students must be enrolled in the Bachelor of Health Science (Paramedicine).

Special Requirements - Essential Equipment

Students are expected to have a complete Western Sydney University student paramedic uniform and appropriate personal protective equipment as per the Western Sydney University Paramedicine Uniform Guidelines. Students are expected to have their own stethoscope, safety goggles, penlight torch and sphygmomanometer. All uniform and equipment must be taken to every shift. Students who attend a shift without the necessary equipment will be refused attendance by the Ambulance Service of New South Wales.

.....

This unit focuses on the core competencies for paramedic practice in real world situations. Students will review high fidelity simulation scenarios to facilitate simulation debrief sessions exploring scene management, interpersonal communication, decision making, inter-professional cooperation and clinical management. Students will then consolidate and extend these skills through supervised clinical placements with an emergency ambulance crew over a period of 5 weeks. Experiences and exposure

gained during the placement will form the basis for analysis of case studies and reflective learning.

300889.1 Pathological Basis of Disease

Credit Points 10 **Level** 2

Assumed Knowledge

Knowledge of cell structure and function of cellular components (consistent with the unit Cell Biology); Knowledge of biochemical pathways and energy production (consistent with the unit Functional Proteins and Genes).

Prerequisite

[300818.1](#) Introduction to Physiology

Equivalent Units

300323 - Pathological Basis of Disease

Incompatible Units

400138 - Pathophysiology 1

Unit Enrolment Restrictions

Students must be enrolled in 3577 Bachelor of Medical Science, 3657 Bachelor of Medical Science/Bachelor of Information and Communications Technology, 3673 Bachelor of Medical Science, 3682 Bachelor of Medical Science (Advanced), or 3674 Bachelor of Medical Science (Nanotechnology) or 6002 Diploma in Science/Bachelor of Medical Science Note: Enrolment of students in other programs may be approved by the Unit Coordinator for the Summer session, subject to vacancies and meeting equivalent prerequisite knowledge. Please lodge a Rule Waiver request for enrolment.

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Pathology is the study of disease. Students will gain an understanding of human pathogenesis, general and systems pathological processes, and the scientific basis of diagnostic and treatment options. The unit also introduces normal human tissue and organ histology, and examines histopathological changes evident in disease states.

401181.1 Pathomechanics and Podiatric Medicine

Credit Points 10 **Level** 2

Assumed Knowledge

Completion of all core units to this semester/ year of study is assumed knowledge Anatomy is particularly important for the successful completion of this unit. An understanding of the structure and function of the lower extremity is needed as the focus of this unit is on pathologies of the foot and lower extremity and subsequent assessment, diagnosis and management.

Prerequisite

[400881.3](#) Functional Anatomy AND [400905.2](#) Introduction to Podiatry

Corequisite

[401140.1](#) Biomechanics

Incompatible Units

400935 - Podiatric Techniques 1A

Unit Enrolment Restrictions

The unit is Podiatry specific and restricted only to students enrolled in courses 4708 Bachelor of Podiatric Medicine and 4709 Bachelor of Podiatric Medicine (Honours).

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This unit will introduce students to clinical/practical and theoretical foundations of human biomechanics of the foot and lower extremity, and the assessment, diagnosis and treatment of common foot and lower extremity pathologies. The unit consists of co-ordinated lectures and practical components to cover the theory and application of foot and lower extremity biomechanics and gait analysis, relevant physical examinations (bones, joints, soft tissues), diagnosing common foot and lower extremity conditions and related treatment options.

400138.3 Pathophysiology 1

Credit Points 10 **Level** 2

Prerequisite

[400868.2](#) Human Anatomy and Physiology 1 AND [400869.2](#) Human Anatomy and Physiology 2

Incompatible Units

300323 - Pathological Basis of Disease

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This unit is intended for students enrolled in a range of health science courses within the School of Science and Health. It is designed to equip students with a detailed knowledge of pathophysiological processes evident in a number of key human diseases that are vocationally relevant to these students. The content is organised using a systems based approach. Problem-based learning methods will be adopted in the tutorial component of this unit to help students develop crucial problem solving skills.

400267.3 Pathophysiology 2

Credit Points 10 **Level** 2

Prerequisite

[300323.3](#) Pathological Basis of Disease OR [400138.3](#) Pathophysiology 1

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This unit extends the scope of topics explored in Pathophysiology 1 and is designed to equip students enrolled in health science courses of the School with detailed knowledge of pathophysiological processes evident in a number of key human diseases that are vocationally relevant to these students. Problem-based learning methods will be adopted in the tutorial component of this unit to help students develop crucial problem solving skills.

300984.1 Pavement Materials and Design

Credit Points 10 **Level** 2

Prerequisite

[300965.1](#) Engineering Materials

Equivalent Units

300482 - Engineering Geology and Concrete Materials,
700239 - Pavement Materials and Design

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This unit will provide students the basic knowledge and concepts on pavement materials and design. It will cover the common materials used in pavement construction such as aggregates, cement, asphalt, and concrete. It will also cover the pavement design system, pavement construction, design of flexible pavements, design of rigid pavements, and pavement maintenance.

700239.1 Pavement Materials and Design (WSTC AssocD)

Credit Points 10 **Level** 2

Prerequisite

700147.2 Engineering Materials (WSTC AssocD)

Equivalent Units

300984 - Pavement Materials and Design

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College in 7022 Associate Degree in Engineering.

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This unit will provide students with the basic knowledge and concepts on pavement materials and design. It will cover the common materials used in pavement construction such as aggregates, cement, asphalt and concrete. It will also cover the pavement design system, pavement construction, design of flexible pavements, design of rigid pavements and pavement maintenance.

300150.3 PC Workshop

Credit Points 10 **Level** 1

Assumed Knowledge

Basic knowledge of personal computers.

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This unit introduces students to the hardware and software components of a stand-alone personal computer (PC). Students become familiar with the CPU, memory, secondary storage, IO peripherals and communications devices commonly found in a PC. They learn to assemble and disassemble a PC and to install hardware and software components according to supplier specifications. Students also learn to use and customise the PC operating system to maintain and optimise PC performance.

400798.3 PDHPE: Games for Diverse Groups

Credit Points 10 **Level** 2

Prerequisite

Students must have completed a Child Protection Course.

Unit Enrolment Restrictions

Students must be enrolled in 4659 - Bachelor of Health Science (Health and Physical Education), 4741 - Bachelor of Sport Development, 4742 - Bachelor of Health Science (Health and Physical Education) Pathway to Teaching,

4747 - Bachelor of Health Science (Health and Physical Education) or 6001 Diploma in Health Science/Bachelor of Health Science (Health and Physical Education)

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This unit focuses on teaching and coaching young children in a range of Indigenous, striking/fielding, and target sports. The aim is to build on students' knowledge and application of various teaching /coaching styles with a focus on the game sense approach. In particular, the unit addresses issues of diversity and inclusion in school, sport, and recreation activities. As part of the unit, students will implement a teaching program in a local primary school and complete introductory coaching certificates in a variety of sports.

101571.2 Peace & Development Project

Credit Points 10 **Level** 3

Assumed Knowledge

This unit is a capstone unit for students doing the Peace & Development major. Students should have a knowledge of concepts, theories from & strategies used within the Peace & Development field.

Prerequisite

101573.2 Human Rights, Peace and Development

Equivalent Units

101326 - Work-based Learning Project: Humanitarian, Peace and Health Studies

Unit Enrolment Restrictions

Successful completion of 100 credit points.

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The Peace & Development major is concerned with understanding and addressing inequities of power, wealth & opportunity that contribute to international and local conflicts and environmental degradation. In this capstone unit students will have the opportunity to consolidate their understanding, knowledge and skills of peace and development issues through planning, implementing and writing up individual or collective projects. Students will identify individual and collective actions that can be taken to improve conditions so that opportunities for peaceful, equitable & sustainable living are created locally & globally.

101575.2 Peace-Making and Peace-Building

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points.

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The concept of Peace is more than just an absence or cessation of conflict, but also the achievement of social justice and equitable standards of living. Humanitarian work/interventions in response to war and natural and human-made disasters that result in refugee crises are referred to as peace-making whilst the implementation of sustainable Community Development programs aimed at achieving the empowerment and improved standards of living for vulnerable groups is referred to as peace-building. This unit examines and critiques some of the strategies of peace-

making and peace-building that have been adopted both within Australia and internationally.

400908.2 People, Environment and Occupations

Credit Points 10 **Level** 2

Prerequisite

400160.3 Introduction to Occupational Therapy AND
400907.3 Occupational Therapy Practice 1

Equivalent Units

400734 - Functional Analysis

Unit Enrolment Restrictions

Students must be enrolled in course 4663 - Bachelor of Health Science/Master of Occupational Therapy or 4711 Bachelor of Occupational Therapy. This is a specialty unit offered as a compulsory core unit of the occupational therapy program. It is profession specific, preparing students to practice as an occupational therapist and not relevant as an elective for non-occupational therapy students.

Analysing an individuals participation in meaningful occupations is an essential clinical reasoning process to be mastered by occupational therapists. Therapists must be able to analyse three factors to do so: the persons abilities; the demands of the occupation; and the impact of the environmental context on participation. This unit will facilitate the development of these skills so that students can maximise the person-environment-occupation fit to optimise participation for people with a variety of health challenges or disabilities.

200860.1 People, Work and Society

Credit Points 10 **Level** 3

Prerequisite

200300.2 Managing People at Work

Equivalent Units

200616 - Workplace Behaviour, 61441 - Workplace Behaviour

'People, Work and Society' draws on psychology and sociology to deepen participants' practical human resource management (HRM) expertise. Designed for those aiming at careers as HRM professionals, participants will use HRM knowledge to develop policy and procedure that takes account of the psychology of individuals and groups as well as rising expectations for socially- responsible management. The complexities and rewards around managing diverse workforces receive particular attention. Through the challenge of real-world activities, participants are introduced to the difficult judgements that confront HRM professionals around people at work.

300196.3 Personal Communication Systems

Credit Points 10 **Level** 7

Assumed Knowledge

Communications Systems. Digital Communications.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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.

102166.1 Person-Centred Practice

Credit Points 10 **Level** 7

Assumed Knowledge

Professionals with teaching or other relevant qualifications.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

The shift in educational policy and legislation to one of inclusion has been accompanied by a move to models of service delivery which are person- and family-centred and which also recognise the need for tiers in intervention. Whilst the range of service delivery models currently operating across educational and community settings for varied levels of need and developmental stages will be explored and evaluated, emphasis will be given to person-centred practice. Through an analysis of the literature encompassing both evidence-based practice and practice-based evidence students will evaluate the implications of the model for individuals, families, teachers, other professionals, schools, services, their own practice and for systems practice.

102037.1 Perspectives in Criminology

Credit Points 10 **Level** 3

Prerequisite

101560.1 Introduction to Crime and Criminal Justice AND
102039.1 Crime, Deviance and Society

Equivalent Units

101563 - Contemporary Perspectives in Criminology

Unit Enrolment Restrictions

Successful completion of 80 credit points or the pre-requisites above.

Contemporary criminological knowledge typically concerns explanations of offending, victimisation, prevention and safety, but debates about these matters also reflect unequal power, social division and exclusion. The unit will focus on the criminological concern with individual offenders and the implications of this for responses to crimes including those of the powerful. Additionally, it will analyse the impacts of the blurred lines between the public and private, the national and global, citizens and aliens, as well as evidence about the expansion of more intensive forms of policing and surveillance in contemporary societies.

400774.2 Perspectives on Nursing

Credit Points 10 **Level** 7

Equivalent Units

400234 - Nursing Knowledge: Concepts, Models and Theories

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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

300920.1 Pharmacological Chemistry

Credit Points 10 **Level** 3

Assumed Knowledge

This unit is aimed at undergraduates with a grounding in chemistry and biochemistry.

Equivalent Units

300324 - Pharmacological Chemistry

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This unit is aimed at undergraduates with grounding in chemistry and biochemistry who have an interest in a career related to medicinal chemistry. Because it concerns the manner in which foreign molecules can interact with the body's mechanisms it is of direct relevance not only to the pharmaceutical industry but also to the food, agricultural, cosmetic (etc) industries. It conveys the fascination of designing chemical structures for particular uses within biological systems and which overlap the disciplines of chemistry, biochemistry, cell biology and pharmacology. Emphasis is placed upon design of the chemical structure itself rather than an investigation of the specific chemical structure of its site of action in the body. This is reflected in the laboratory work which traces the historical development of drug design, essentially through a process of a series of inorganic syntheses, relevant to a range of common drugs.

300884.2 Pharmacology

Credit Points 10 **Level** 2

Assumed Knowledge

Introductory biochemistry and general anatomy and physiology of the major body systems such as central and peripheral nervous systems, cardiovascular, respiratory, digestive, endocrine, and urinary systems.

Prerequisite

300818.1 Introduction to Physiology OR **700098.2** Introduction to Physiology (WSTC)

Equivalent Units

300505 - Pharmacology

Incompatible Units

400981 - Clinical Pharmacology, 400135 - Clinical Pharmacology and Microbiology

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Pharmacology is the study of the therapeutic interactions of drugs with the human body, focusing on mechanisms of action at the biochemical and cellular level, on adverse reactions and on clinical applications. This unit provides students with a sound understanding of fundamental aspects of this field to prepare for further study of advanced pharmacology or other biomedical sciences. General principles of pharmacokinetics and pharmacodynamics, will be discussed in detail. The major drug categories that affect different organ systems will be addressed, and research methods in pharmacology and the drug development process will also be introduced.

401182.1 Pharmacology for Podiatrists

Credit Points 10 **Level** 3

Assumed Knowledge

Completion of all core units to this semester year of study is assumed knowledge

Prerequisite

400981.2 Clinical Pharmacology

Corequisite

400929.2 Podiatric Practice 1

Unit Enrolment Restrictions

The unit is Podiatry specific and restricted only to students enrolled in courses 4708 Bachelor of Podiatric Medicine and 4709 Bachelor of Podiatric Medicine (Honours). The unit involves pharmacology in the context of podiatric clinical practice. Students will be building on previous clinical skills and knowledge in the podiatry program.

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This unit will cover the pharmacological foundations and principles of drugs with a particular emphasis on those that may be prescribed by podiatrists upon appropriate qualification, including indications, contraindications, drug-drug interactions and adverse drug reactions. Student knowledge of national legislation relating to the effective and safe use of drugs will be developed, alongside an understanding of the process for obtaining prescribing rights and the attendant responsibilities. Upon successful completion of this unit and registration as a podiatrist, students will be eligible to seek further training to gain endorsement to prescribe.

102380.1 Philosophical Aesthetics

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit involves study of aesthetics, which may include philosophical approaches to art and artistic genres such as literature and cinema, and to beauty itself. It will include an historical overview of the field, an analysis of one particular set of problems or debates, and a close examination of a specific school or thinker. It will explore concepts of aesthetic judgement and value, as well as the relationship between aesthetics and other aspects of philosophy.

100275.4 Philosophies of Love and Death

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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The Western experience of the fundamental questions of love and death will be examined. What is love? Is love between friends more important than romantic love? Is death always a bad thing? Is 'coming to terms with death' important for a meaningful life? Ancient Greek, Christian and medieval attitudes will be contrasted with romantic and contemporary views.

102417.1 Philosophy and Environment

Credit Points 10 **Level** 3

Equivalent Units

101843 - Philosophy and Environment

Unit Enrolment Restrictions

Successful completion of 60 credit points in currently enrolled course.

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Philosophy and Environment focuses on how we understand and value our interactions with the natural environment, how humans have changed the world and themselves through those interactions and the questions and problems created through that dynamic. Contemporary issues such as climate change, resource depletion, land degradation, conflict over resources, and treatment of animals have become prominent ethical, political and philosophical concerns. This unit looks at these sort of environmental problems through philosophical methods that reveal the traditions of thought, attitude and action underlying them. Students will be introduced to the major approaches and questions most relevant to explaining contemporary environmental problems.

102616.1 Philosophy and Literature

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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The relationship between philosophy and literature is as old as philosophy itself. In fact, philosophy begins and defines itself in Ancient Greece by setting itself apart from literature – specifically, epic and tragic writings – and claiming for itself a more original role in the effort to understand what is

true, what matters, and how one should be with others. From Ancient Greece, through Hellenism and the Roman world, and into the Medieval and Modern periods there was an enduring concern in philosophical traditions with literature, literary themes, and questions of style. However, at the end of the Modern period the concern with literature became so pronounced that philosophers began to write literary texts and to experiment with new styles of expression. Beginning with Kierkegaard and Nietzsche, and moving up to Sartre and Camus, this question of the relation of philosophy and literature has become a central concern of many contemporary philosophical traditions. This unit will be devoted to exploring both the history of this relation between philosophy and literature, as well as looking more carefully at various moments in that history.

101881.2 Philosophy and the Good Life

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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What does it mean to live a "good life"? One conception of philosophy that goes back to the teachings of the ancient Greeks and Romans is that it is the discipline pre-eminently concerned with teaching people how to live a good life. This unit will investigate the idea of "the good life" through an examination of select texts in ancient and modern philosophy. It will address questions that both ancient and modern philosophers have grappled with: on the right relation between reason and emotion, on the role of pleasure in human life, on the development of character, on the "care of the self," and on pursuing a meaningful life.

102493.1 Philosophy of History

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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What is History? This question has been an object of inquiry as much for philosophers as for historians themselves. Large historical forces were at work in the Enlightenment—both in the sciences and in politics—and philosophers like Rousseau and Kant sought to understand these movements philosophically. For Rousseau, the lens was genealogical as he worked to produce a "natural history" of politics and society; for Kant, the historical lens was teleological as he narrated instead a philosophical history full of notions of progress and improvement. In the 19th century, philosophers like Hegel and Marx were concerned to think about history as a dialectical movement, while Nietzsche applied Darwin's new theory of evolution to his understanding of history and morals alike. The great shockwaves wrought by the two World Wars of the 20th century brought new philosophical writers to the problem of history, though now with an eye back toward the seemingly failed vision of inevitable progress so successfully peddled by the Enlightenment. This philosophical tradition and its changing approaches to history will be the focus of this unit.

102582.1 Philosophy of History and Politics

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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What is History? What justifies the State? These questions have been an object of inquiry as much for philosophers as for historians and political theorists. Large socio-political forces were at work during the Enlightenment and philosophers like Rousseau and Kant sought to understand these movements philosophically. For Rousseau, the lens was genealogical as he worked to produce a "natural history" of politics and society; for Kant, the historical lens was teleological as he narrated instead a philosophical history full of notions of progress and improvement. In the 19th century, philosophers like Hegel and Marx were concerned to think about history and politics as a dialectical movement, while Nietzsche applied Darwin's new theory of evolution to his understanding of history and morals alike. The great shockwaves wrought by the two World Wars of the 20th century brought new philosophical writers to the problems of history and politics, though now with an eye back toward the seemingly failed vision of inevitable progress so successfully peddled by the Enlightenment. This philosophical tradition and its changing approaches to history and politics will be the focus of this unit.

102619.1 Philosophy of Nature

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit examines questions and problems concerning the concept of nature or 'naturalness'. What does it mean to call something 'natural' and how are natural things to be distinguished from artificial things or things that are human made? How does technology influence our understanding of nature? What are the ethical implications arising from human relations with the natural world? As well learning time-honoured answers to such questions, students will appreciate the practical relevance of philosophical theorising about nature.

101965.1 Philosophy of Religion

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit examines central issues in the philosophy of religion. Students will look at a variety of ideas emanating from a philosophical consideration of religious belief and practice. Issues include arguments for and against the existence of God, conceptions of religious experience and faith, the relationship between science and religion, and religion and ethics.

102620.1 Philosophy, History and Interpretation

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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The focus of this unit will be a topic, or range of topics, particularly relevant in philosophy, which will be analysed both in their historical context and through subsequent interpretations by other philosophers or philosophical traditions. The unit will combine the hermeneutic interpretation of texts together with conceptual and argumentative analysis. Close attention will be paid to the language and systematic content of the philosophical issues examined. Moreover, students will be guided in factoring in the historical situation both for the philosopher (s) examined and for us as interpreters.

400892.2 Physical Activity, Nutrition and Health

Credit Points 10 **Level** 2

Equivalent Units

400780 - Nutrition, Physical Activity & Mental Health

Unit Enrolment Restrictions

Students must be enrolled in course 4659 - Bachelor of Health Science (Personal Development, Health and Physical Education), 4742 - Bachelor of Health Science (Health and Physical Education)-Pathway to Teaching (Secondary), 4747 - Bachelor of Health Science (Health and Physical Education) or 6001 Diploma in Health Science/ Bachelor of Health Science (Health and Physical Education)

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This unit examines the interdependence between physical activity, nutrition and health and the role of key lifestyle behaviours in improving health outcomes, longevity, and quality of life. Throughout this theoretical and practical unit, students explore personal and socio-cultural health issues, and identify how these health issues can be addressed in a proactive, holistic, and sustainable manner at an individual and population level.

300849.2 Physical Chemistry

Credit Points 10 **Level** 2

Assumed Knowledge

This unit requires a knowledge of introductory concepts in differential and integral calculus.

Prerequisite

300800.2 Essential Chemistry 1 OR **300808.2** Introductory Chemistry AND **300803.1** Essential Chemistry 2

Equivalent Units

CH205A - Chemistry 2; J2776 - Physical Chemistry 2; 300236 - Physical Chemistry 2; 300540 - Bimolecular Dynamics

Special Requirements - Essential Equipment

Lab coats, enclosed footwear, safety glasses

Physical Chemistry describes the fundamentals of energy changes in chemical systems (thermodynamics), the rates and mechanisms of chemical reactions (kinetics), and electrochemistry and/or ion and electron transport. These concepts will be applied to a range of chemical and/or biochemical processes. A major focus of the unit will be to develop the ability to study quantitative chemical/biochemical problems, and develop useful physical chemistry experimental and data-analysis skills.

300828.1 Physics 1

Credit Points 10 **Level** 1

Assumed Knowledge

HSC 2 Unit Mathematics Band 4 (Not General Mathematics) or equivalent.

Equivalent Units

300558 - Physics 1

Special Requirements - Essential Equipment

Students must have a Scientific Calculator and Laboratory Notebook (good quality A4 size book in which graphs, computer printouts and other relevant information may be added in as required).

This unit provides an introduction to physics for science and medical science students as well as providing a basis for further study of more advanced physics for students pursuing courses in nanotechnology, chemical, physical and mathematical sciences. It provides a foundation to understand the physical principles which underlay scientific instrumentation and analysis. Topics covered include systems of units; Introductory mechanics, Newton's laws, work, conservation of energy and momentum; Electricity, electrostatics, DC and AC circuits and components, introductory electromagnetism; Waves and optics, electromagnetic radiation, reflection, refraction, image formation, polarisation, interference and diffraction.

700035.4 Physics 1 (WSTC)

Credit Points 10 **Level** 1

Assumed Knowledge

HSC Mathematics or equivalent

Equivalent Units

14227 - Engineering Physics, 300050 - Physics 1, 300077 - Physics 1D, 300558 - Physics 1, 300828 - Physics 1

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in the Extended Diploma courses (7086 - Diploma in Science Extended, 7087 - Bachelor of Science Extended (WSTC First Year Program) must have passed 40 credit points in order to enrol in this unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

This unit provides an introduction to physics for science and medical science students as well as providing a basis for further study of more advanced physics for students pursuing courses in nanotechnology, chemical, physical and mathematical sciences. It provides a foundation to understand the physical principles which underlay scientific instrumentation and analysis. Topics covered include systems of units; Introductory mechanics, Newton's laws, work, conservation of energy and momentum; Electricity, electrostatics, DC and AC circuits and components, introductory electromagnetism; Waves and optics, electromagnetic radiation, reflection, refraction, image formation, polarisation, interference and diffraction.

300829.1 Physics 2

Credit Points 10 **Level** 1

Assumed Knowledge

HSC 2 Unit Physics or one semester of university level Physics or equivalent plus HSC 2 Unit Mathematics Band 4 (Not General Mathematics) or one semester of university level Mathematics or equivalent.

Equivalent Units

300559 - Physics 2

Special Requirements - Essential Equipment

Students must have a Scientific calculator and laboratory notebook (this should be a good quality A4 size book into which graphs, computer printouts and other relevant information may be added as required).

This unit develops a deeper understanding of physics for students pursuing courses in nanotechnology, chemical, physical and mathematical sciences. Topics covered include Mechanics: Equilibrium, stress and strain, harmonic oscillators, rotational motion, moment of inertia. Gravitation, types of force in nature. Thermal Physics: temperature, specific & latent heat, heat transfer, kinetic theory of gases, first law of thermodynamics, isothermal, isobaric & adiabatic processes. Introduction to Modern Physics: special relativity, time dilation, length contraction, momentum, mass, rest energy, velocity addition. Basic quantum theory, Planck's hypothesis, wave nature of matter, quantum mechanical view of atoms. Nuclear physics, radiation, half-life, nuclear reactions.

401107.2 Physiotherapy for Chronic Illness and Disease

Credit Points 10 **Level** 4

Prerequisite

400998.3 Neurological Rehabilitation AND **401200.1** Musculoskeletal Physiotherapy B AND **400865.3** Evidence-Based Practice OR **400944.2** Evidence-Based Practice (Advanced)

Corequisite

401110.1 Clinical Education B (Rehabilitation) AND **401111.1** Clinical Education C (Ambulatory Care) AND **401112.1** Clinical Education D (Paediatrics) AND **400985.2** Clinical Education A (Acute Care)

Incompatible Units

401048 - Physiotherapy for Chronic Illness and Disease

Unit Enrolment Restrictions

Students must be enrolled in 4706 Bachelor of Physiotherapy or 4733 Bachelor of Physiotherapy (Honours) or 4707 Bachelor of Physiotherapy (Honours)

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This unit focuses on the role of physiotherapy in chronic disease management. A case-based learning approach will be undertaken to provide students with the theory, research and practice which underpins the assessment and treatment of people with chronic disease. The role of lifestyle factors in the development of chronic disease will be explored, along with health promotion and preventative strategies. The importance of client-centred care, which respects culture and diversity, and the multidisciplinary team approach will also be investigated in the context of frequently occurring chronic conditions.

101752.2 Pigments of the Imagination

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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This unit is available to all Undergraduate students who have open electives. Pigments of the Imagination challenges the accepted view that there is such a thing as 'race' based on skin colour and that identity is based on it. This unit will encourage students to consider their own definitions of race and explore the view that it is an imaginary concept. Students will examine the various ways race as an imaginary concept permeates our education practices and cultural representations influencing the construction of racially classified positions for Indigenous Australians as well as all Australians. Students will be encouraged, by critically analysing a range of cultural texts to re-imagine Indigenous and Non-Indigenous relations.

300990.1 Pile Foundations

Credit Points 10 **Level** 4

Prerequisite

301001.1 Engineering Geomechanics OR **300485.3** Foundation Engineering

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This unit covers analysis and design criteria for pile foundations subjected to axial, lateral and dynamic loading based on the Australian Standards. Computer software necessary to carry out analysis and design will be introduced. Also field testing methods available for pile integrity testing will be discussed.

101634.2 Planning and Environmental Regulation

Credit Points 10 **Level** 7

Equivalent Units

300708 - Planning and Development Control

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This unit provides students with an understanding of the planning process from both a State government and Local Government perspective. The unit will cover concepts related to the planning process, focusing on development control and regulation issues, planning instruments and development applications. It will also address the areas of planning and environment law, with specific reference to the legal framework that regulates planning and development in NSW.

101593.3 Planning the City: Development, Community and Systems

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 80 credit points

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This unit aims to provide students with a fundamental understanding of the role of government, focusing on the role and nature of planning across all levels of government from a variety of theoretical frameworks. It presents a critical examination of the urban development and planning processes, with particular attention given to the environmental and political issues associated with planning at the local government level. It looks at the changes and challenges confronting local government in view of the demands made on them by the changing social and economic conditions and societal values such as those relating to requirements for public participation, transparency and accountability. The unit also examines the role of private sector in planning and assessment processes.

300921.1 Plant Health and Biosecurity

Credit Points 10 **Level** 3

Assumed Knowledge

Foundation in chemical and biological sciences, quantitative thinking

Equivalent Units

300787 - Plant Microbiology and Protection

Incompatible Units

300336 - Plant Microbiology Interactions, 300643 - Plant Protection

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This unit explores needs of world food production systems for improved plant health and biosecurity, from paddock to plate and environmental consequences of management practices. Through their studies, students will learn to recognise the significance of plant pests (invertebrates, microorganisms and weeds) and their impact on human society and food security, and methods of reducing their damage to plants and plant products. Major areas of study include: recognition of pests and diseases and assessment of field damage; strategies for reducing pest damage (including legislative, physical, biological, genetic and chemical control methods) and their benefits and limitations; the theory and practice of integrated pest and

disease management systems; and issues associated with quarantine and biosecurity.

300865.1 Plant Physiology

Credit Points 10 **Level** 2

Assumed Knowledge

Sound knowledge of biology and chemistry equivalent to undergraduate Level 1 units.

Equivalent Units

300333 - Introductory Plant Physiology, 300609 - Plant Physiology

Special Requirements - Essential Equipment

Goggles, lab coat, enclosed shoes

Plants are the primary producers of terrestrial ecosystems and moderators of climate change. This unit introduces students to how plants grow and interact with their environment. Students will learn how leaves turn sunlight energy into sugars; stems transport water, solutes and organic compounds; roots acquire water and mineral nutrients by themselves or in association with soil microbes; and hormones regulate plant development and responses to the environment. This knowledge set is crucial for managing our Century's key challenges of food security and climate change. Students will be required to travel to the Hawkesbury campus where the practicals take place.

401117.2 Podiatric Clinical Block

Credit Points 20 **Level** 4

Assumed Knowledge

Advanced clinical and theoretical podiatric knowledge is necessary to ensure that students in this unit can undertake appropriate assessment techniques to diagnose, treat and provide short and long term health outcomes. Students are expected to have sufficient knowledge and scope to evaluate and manage complex clinical cases in the areas of surgery, paediatrics, high risk foot and musculoskeletal disorders. Completion of all core units prior to undertaking Unit 401117 Podiatric Clinical Block will equip students will equip students with this assumed knowledge.

Prerequisite

401114.1 Podiatric Practice 3 AND **401183.1** Podiatric Surgery

Equivalent Units

400928 - Podiatric Clinical Block

Unit Enrolment Restrictions

Must be enrolled in 4708 Bachelor of Podiatric Medicine Podiatry specific - students will be participating in patient assessment and management. It is essential that they have been able to demonstrate competencies in patient assessment, documentation, treatment programs and communication within allied health / community settings. The podiatric practice units in combination with the clinical block placement have been designed to be an integrated suite of units where one unit builds on the clinical competencies of the others.

Special Requirements - Essential Equipment

Podiatric Medicine student uniform.

This unit is the major clinical placement unit in the 4th year of the program. Students will participate in clinical activities in public and private sector placements. The unit builds on previous clinical and academic knowledge to further develop students' clinical reasoning skills encouraging appropriate selection of assessment techniques to diagnose, treat and provide optimal health outcomes. Students under supervision will manage foot and lower limb pathologies across the scope of practice including treating diverse patient cohorts and complex cases (including the high risk foot) transitioning towards a competent graduate entry podiatrist.

401115.1 Podiatric Paediatrics and Sports Medicine

Credit Points 10 **Level** 4

Assumed Knowledge

Completion of all core units to this semester/ year of study is assumed knowledge

Prerequisite

400929.2 Podiatric Practice 1 AND **400930.3** Podiatric Practice 2 AND **401181.1** Pathomechanics and Podiatric Medicine

Corequisite

401114.1 Podiatric Practice 3

Incompatible Units

400939 - Podiatric Techniques 3A, 400940 - Podiatric Techniques 3B

Unit Enrolment Restrictions

Students must be enrolled in 4708 - Bachelor of Podiatric Medicine and 470 - Bachelor of Podiatric Medicine (Honours).

Special Requirements - Essential Equipment

Podiatric Medicine UniClinic Uniform

This unit will introduce students to clinical and theoretical foundations of biomechanical alignment, trauma, psychological and behavioural factors leading to pain and restricted function of the foot and lower extremity affecting daily living activities. Particular focus will be placed on the mechanics, diagnosis and treatment options of problems experienced in paediatrics and sports in normal daily activities or the sporting arena. This integration will enhance the previously taught assessment and diagnostic techniques in the development of appropriate management and treatment programs of the lower extremity in different populations.

400929.3 Podiatric Practice 1

Credit Points 10 **Level** 3

Assumed Knowledge

Completion of all core units to this semester/ year of study is assumed knowledge

Prerequisite

400933.2 Podiatry Pre-Clinical AND **401180.1** Musculoskeletal Disorders and Imaging

Equivalent Units

400141 - Podiatry Practice 1

Unit Enrolment Restrictions

The Podiatric Practice units have been designed to be an integrated suite of units where one unit builds on the clinical competencies of the others. Students participate in patient assessment, diagnosis and management. It is essential that students have been able to demonstrate baseline competencies in theoretical content, patient management, infection control and safe work practices (i.e completed the preceding prerequisite units including Podiatry PreClinical). The unit is Podiatry specific and restricted only to students enrolled in 4708 Bachelor of Podiatric Medicine and 4709 Bachelor of Podiatric Medicine (Honours). Students must meet all inherent requirements for the podiatry course.

Special Requirements - Essential Equipment

Podiatric Medicine UniClinic Uniform

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This unit is the first of four podiatry clinical practice units. Building on previous core and podiatry specific theory units this unit introduces students to basic and general clinical skills, including history taking, patient communication, assessment, diagnosis, management and documentation in the clinical environment of common foot disorders under supervision. The student will also be introduced to basic skills in mechanical therapy as part of the clinical therapies component of the unit. Clinical activities will include UniClinic sessions, Clinical Therapies, Tutorials, and External Clinical Placement.

400930.4 Podiatry Practice 2

Credit Points 10 **Level** 3

Assumed Knowledge

Completion of all core units to this semester/ year of study is assumed knowledge.

Prerequisite

400929.2 Podiatry Practice 1

Equivalent Units

400145 - Podiatry Practice 2

Unit Enrolment Restrictions

Podiatry specific - students will be participating in patient assessment and management. It is essential that they have been able to demonstrate baseline competencies in patient assessment and infection control procedures. The podiatric practice units have been designed to be an integrated suite of units where one unit builds on the clinical competencies of the others.

Special Requirements - Essential Equipment

Podiatric Medicine student clinical placement uniform.

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This unit will further develop students assessment skills encouraging the student to make the appropriate selection of techniques (biomechanical assessments) and to

introduce the student to the diagnosis and management of a variety of simple foot pathologies. In this unit, the second of the four clinical practice units, students will participate in assessments of patients under supervision and continue with the management of foot pathologies. Clinical activities will be divided into five areas: General Medicine Clinic, Biomechanical Assessment Clinical, Tutorial, Clinical Therapies and External Clinical Placement.

401114.1 Podiatric Practice 3

Credit Points 10 **Level** 4

Prerequisite

400930.3 Podiatric Practice 2 AND **401183.1** Podiatric Surgery

Incompatible Units

400931 - Podiatric Practice 3

Unit Enrolment Restrictions

Students must be enrolled in 4708 Bachelor of Podiatric Medicine and 4709 Bachelor of Podiatric Medicine (Honours).

Special Requirements - Essential Equipment

Podiatric Medicine student clinical placement uniform.

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This unit is the third of four clinical practice units. Building on previous clinical units and academic knowledge the unit develops student assessment skills encouraging the student to make the appropriate selection of assessment techniques to diagnose, treat and provide short and long term health outcomes. Students will continue to participate in clinical activities under supervision to manage foot pathologies with increased scope to evaluate and manage more complex cases (i.e. surgery, paediatrics, high risk foot). Clinical activities include UniClinic sessions, Clinical Therapies, Tutorials, and External Clinical Placement.

401118.2 Podiatric Practice 4

Credit Points 10 **Level** 4

Assumed Knowledge

All core units to this semester of study are assumed knowledge to facilitate competent clinical practice

Prerequisite

401114.1 Podiatric Practice 3 AND **401184.1** The High Risk Foot AND **401183.1** Podiatric Surgery

Incompatible Units

400932 - Podiatric Practice 4

Unit Enrolment Restrictions

The unit is Podiatry specific and restricted to students enrolled in 4708 - Bachelor of Podiatric Medicine and 4709 - Bachelor of Podiatric Medicine (Honours).

Special Requirements - Essential Equipment

Podiatric Medicine student clinical placement uniform.

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This unit is the final of four clinical podiatric practice units. The unit builds on student clinical reasoning encouraging the student to make the appropriate selection of

assessment techniques to diagnose and manage a spectrum of foot and lower limb pathology. Students under supervision will consolidate skills managing diverse patient cohorts and complex cases (including surgery, paediatrics, sports injury and the high risk foot) transitioning towards a competent graduate entry podiatrist. Clinical activities include UniClinic sessions, Clinical Therapies, Clinical tutorials, and Specialist Clinical Activity.

401119.1 Podiatric Professional Practice Studies

Credit Points 10 **Level** 4

Assumed Knowledge

Podiatry Pre-clinical, Podiatric Techniques 3A (Podiatric Sports medicine and paediatrics), 3B (Dermatology and Gerontology, 3C (High Risk Foot)

Prerequisite

[401114.1](#) Podiatric Practice 3

Corequisite

[401117.1](#) Podiatric Clinical Block AND [401118.1](#) Podiatric Practice 4

Incompatible Units

400934 - Podiatric Professional Practice Studies

Unit Enrolment Restrictions

Students must be enrolled in 4708 Bachelor of Podiatric Medicine. The unit is Podiatry specific

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This unit will introduce students to the principles of professional development and appropriate requirements to function as a registered podiatrist. As podiatrists may work as a primary provider, as part of a multidisciplinary team, in the public or private health care setting, they require extensive knowledge of many aspects of the management of a practice or business. During seminars, students will be introduced to a number of principles specific to professional, ethical and legal issues associated with working as a podiatrist, and practice and workplace administrative policies and procedures.

401183.1 Podiatric Surgery

Credit Points 10 **Level** 3

Assumed Knowledge

Completion of all core units to this semester/ year of study is assumed knowledge

Prerequisite

[400869.3](#) Human Anatomy and Physiology 2 AND [400881.3](#) Functional Anatomy AND [400929.2](#) Podiatric Practice 1 AND [400981.2](#) Clinical Pharmacology

Incompatible Units

400937 - Podiatric Techniques 2A

Unit Enrolment Restrictions

Students must be enrolled in 4708 Bachelor of Podiatric Medicine and 4709 Bachelor of Podiatric Medicine (Honours). For registration, students must be competent in performing partial nail avulsions as an accreditation requirement for state registration to practice as a podiatrist.

It is essential that students have been able to demonstrate baseline competencies in theoretical content, patient management, infection control and safe work practices (i.e. completed the preceding podiatric practice unit and prerequisite units).

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This unit will introduce students to local anaesthesia, the theory of surgical procedures and the practice of skin and nail surgical techniques. As such, this unit allows students to assess patients' suitability for administration of local anaesthesia; understand procedures involved in obtaining voluntary consent, appreciate, and reasonably predict and describe the possible adverse effects of administering local anaesthesia. Surgery will focus the medico-legal requirements, principles of theatre protocol, peri-operative and post-surgical management of the patient and nail and skin surgery, in preparation for student undertaking surgery during Podiatric Practice 3 and 4.

400933.4 Podiatry Pre-Clinical

Credit Points 10 **Level** 2

Assumed Knowledge

Introduction to Podiatry, Anatomy, Communication skills and Biomechanics.

Prerequisite

[400905.2](#) Introduction to Podiatry AND [400871.2](#) Professional Health Competencies AND [400732.2](#) Communication in Health AND [401140.1](#) Biomechanics AND [401181.1](#) Pathomechanics and Podiatric Medicine

Corequisite

[401180.1](#) Musculoskeletal Disorders and Imaging

Incompatible Units

400133 - Podiatry Pre-clinical Studies

Unit Enrolment Restrictions

The unit is Podiatry specific and restricted only to students enrolled in 4708 Bachelor of Podiatric Medicine and 4709 Bachelor of Podiatric Medicine (Honours). Students in this unit undertake 4 days of scheduled clinical activity. It is therefore essential students have the required clinical and academic knowledge scaffolded throughout content in course codes 4708 and 4709. Students must meet all inherent requirements for the podiatry course.

Special Requirements - Essential Equipment

Podiatric Medicine student clinical uniform, surgical scissors, tractograph, Neuropen Kit, Tapemeasure.

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This unit will prepare students for working with patients in the UniClinic and external placement through consolidation and application of podiatric theory and assessment skills first introduced in Year 1. This unit will emphasize UniClinic handbook procedures, and equip students with basic management, communication and correspondence skills. The unit will also apply student knowledge of functional anatomy, dermatological, vascular, neurological and biomechanical assessment techniques and management into the context of common podiatric conditions.

400238.3 Policy, Power and Politics in Health Care Provision

Credit Points 10 **Level** 7

Prerequisite

Students enrolled in course 4673 must have passed the following three units before they can enrol in this unit - 400220 Contemporary Professional Practice in Mental Health Nursing and 400206 Evidence-based Nursing and 400235 Leadership in Clinical Practice.

Equivalent Units

HC815A - Policy, Power and Politics in Health Care Provision

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Computer and internet access

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

101895.1 Political Economy of Development

Credit Points 10 **Level** 7

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The unit introduces students to the main theories and the diverse political economy dimensions of development. It consists of three modules. The first deals with key concepts that interrogate the meaning of development, origins of prosperity and the concepts of poverty, inequality and redistribution, which are contentious in their applications to various groups. The second module examines core issues in the political economy of development, which include globalisation, foreign aid, democracy, conflict and the role of the state. The last module engages with pertinent case studies focusing on Asia, the Pacific as well as problems with development in the Western world.

102384.1 Political Philosophy

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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According to Aristotle's famous definition, the human is a political animal. Since the first theorization of the political in ancient Greek philosophy, politics has been thought from a variety of different angles. These range from traditional approaches such as the forms of government or the ways in which the sovereign can exercise power, to contemporary alternative approaches, such as theories of radical democracy which emphasize the participatory and agonistic aspects of the political. This unit will cover some fundamental texts and ideas in political philosophy.

101797.2 Political Terror

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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Since the terrorist attacks of 11 September, 2001, threats of terrorism have been entrenched in both headlines and the collective psyche. Across the globe, terrorism, anti-terrorism and the politics of fear are influential factors in the formulation of domestic and foreign policies. The current wave of terror and counter-terror raises important questions. What do we mean by terror? Is the war on terror really a war like no other? Is the current terrorist threat unprecedented? This unit will examine historical precedents and theories of terrorism.

100277.4 Politics of Australia and Asia Relations

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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In this unit students will become familiar with Australian diplomacy and appreciate the range of pressing historical, political and cultural issues that affect Australia's place in the Asia Pacific region. It explores the factors that have shaped Australia's relationships with key countries in the region and considers the vital impact of political actors and their ideological stances. In developing a depth of knowledge on the importance of Australia's regional policies, this unit provides students with the opportunity to be involved in a simulation task dealing with a 'hot topic' for Australia's relations within the Asia Pacific region.

100278.2 Politics of Post-War Japan

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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The unit studies the post-war Japanese political experience: a vanquished country transformed into an economic super power with a 'peace' constitution and now in relative decline. In particular the unit will examine the impact of the dominance of the Liberal Democratic Party on domestic politics and the intersection between domestic political developments and security and foreign policy matters.

100882.3 Politics of Sex and Gender

Credit Points 10 **Level** 2

Equivalent Units

63196 - Sex, Gender and Social Relations

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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This unit introduces students to the contemporary analysis of sex, gender, and sexualities. Students study key concepts and learn to apply these concepts in the analysis of contemporary issues. Concepts covered include the meanings of sex, gender and sexuality; gender as 'doing'; equality and difference; gendered bodies; biology and social constructionism; and intersectionality (how gender intersects with other differences such as ethnicity, sexuality and class).

101985.1 Politics, Power and Resistance

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit examines the effects of politics on society and of the social on politics. Politics is understood as a struggle for defining how we live in common with others. We examine how power is attained and maintained and how some ideologies dominate over others to shape opportunities for challenging the status quo. Our focus is the contemporary nation-state in the context of globalisation, increased transnationalism, and shifting balances of power. Key themes include economic and social inequality in the modern state, the colonial power matrix, discipline and punishment, gender and race, and resistance to oppression. Each week will combine theoretical approaches and case-study based 'perspectives' on the topic.

102281.1 Popular Music Communities

Credit Points 10 **Level** 2

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Music is a means through which people create, socialise, consume, disseminate information, engage in power relationships, and agitate for political and social change. People form communities from their shared musical tastes and interests, and hierarchies are formed around particular kinds of music. Music can symbolise and facilitate solidarity, and expresses identity in ways that transcend physical boundaries. This unit examines popular music communities in a variety of contexts, from the local to the global to the virtual. It explores the functions and uses of music that commonly inform human activity, while also considering how these functions and uses have been articulated through recent changes in technology.

102547.1 Popular Music Histories

Credit Points 10 **Level** 1

Equivalent Units

101741 - Music History 2; 102428 - Western Art Music 2

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Students will explore some of the most significant trajectories of popular music of the last 100 years. Each week will look a different facet of popular music history, stretching from the stars of the early years of the recorded music industry to the development of electronic dance music. The unit will touch upon folk, jazz, blues, rock, soul, funk, pop, disco, metal, punk, and hip hop to offer a necessarily incomplete tapestry of music scenes, chains of influence, and theories on the points of origin of styles and genres. Concepts that will be investigated include the relationship of recording and dissemination technologies with popular music creation; the notion of a "mainstream" and its margins; and the idea of a grand narrative of popular music history, including the problems of canonicity.

400870.2 Population Health and Society

Credit Points 10 **Level** 1

Equivalent Units

700066 - Population Health and Society (WSTC)

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This unit deals with foundational concepts and factors relating to population health in our society. Issues that determine both social and environmental aspects of disease, health and wellbeing will be examined. Contemporary problems impacting on states of health will be explored, including current day trends in communicable and non-communicable disease.

700066.3 Population Health and Society (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

400870 - Population Health and Society, 400781 - Dynamics of Health, 400270 - Meanings of Health and Models of Care

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

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This unit deals with foundational concepts and factors relating to population health in our society. Issues that determine both social and environmental aspects of disease, health and wellbeing will be examined. Contemporary problems impacting on states of health will be explored, including current day trends in communicable and non-communicable disease.

101987.1 Postcolonial Australian Cinema

Credit Points 10 **Level** 3

Equivalent Units

100990 - Cinema, Culture, Memory

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit will examine the role of cinema in forming images of national and cultural identity. The unit will explore the development of Indigenous and postcolonial cinema in Australia. The unit will discuss political debates and issues in postcolonial Australian cinema, and will raise questions about the nature of memory as it is mediated by cinematic experience, the representation of history, and the history of representation of indigenous cultures and peoples. The unit will examine these questions through a study of postcolonial Australian cinema produced by both Indigenous and non-Indigenous filmmakers.

102434.1 Postcolonial Literatures: Partition, Dependence and Exile

Credit Points 10 **Level** 3

Assumed Knowledge

A basic knowledge of literary forms, techniques, and styles (as acquired in core units for the English major) is desirable as the unit focuses on specific aspects of literary writing.

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit introduces the postcolonial literatures that emerged in the wake of decolonisation in the second half of the twentieth century. We will read literary works from across the postcolonial world, including from the Middle East, South and South-East Asia, Africa, the Caribbean and Australia, and look at the way in which writers contended simultaneously with the legacy of the colonial system and major historical crises that emerged in the wake of its collapse. We will trace the emergence of the postcolonial reality as writers registered the impact of partition, separatism, persistent dependency, and the large-scale movements of people to the first world, whether as migrants or refugees. Alongside the literature, we will read major works of postcolonial theory: one of the most influential intellectual movements in recent history.

300869.1 Postharvest

Credit Points 10 **Level** 3

Assumed Knowledge

This unit assumes that students have a basic knowledge of biology, plant morphology and anatomy, chemistry and mathematics. Students are also assumed to be familiar with the World Wide Web and the tools for database searching and basic computer packages such as WORD and EXCEL.

Equivalent Units

300452 - Postharvest

Unit Enrolment Restrictions

Successful completion of 40 credit points

Special Requirements - Essential Equipment

Students are required to have personal protection equipment e.g. laboratory coat, safety goggles, and closed-in shoes.

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This unit explores the factors affecting the retention of quality of fresh fruit, vegetables and cut flowers from grower to consumer. Topics include: the role of fresh produce for the health and happiness of people; the growth and maturation and physiology of fresh produce; the importance of managing temperature and relative humidity of the storage environment; the responses of fresh produce to changes in temperature and water loss; the role of ethylene in fruit ripening and senescence; the practical issues of assessing harvest maturity; packaging; distribution and the control of postharvest diseases and pest and the concepts of market access.

300052.2 Power and Machines

Credit Points 10 **Level** 2

Prerequisite

300005.2 Circuit Theory

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This unit introduces basic concepts of power and machines, including an introduction to modern power systems and transformers, and fundamentals of electromechanical energy conversion. It also covers magnetic circuits, modern permanent magnet materials and their characteristics, and balanced and unbalanced three-phase power systems.

102348.1 Power as a Cultural System

Credit Points 10 **Level** 3

Prerequisite

102344.1 Different Ways of Being in the World: Introduction to Social Anthropology

Unit Enrolment Restrictions

Successful completion of 80 credit points in currently enrolled course.

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In this unit students will explore notions of power, domination, authority and conflict from an anthropological perspective. Students will draw upon specific case studies of the social and political organisation of a variety of communities to understand how social order is perceived, achieved and maintained cross-culturally, through local systems of governance but also through social categories such as race, kinship, ethnicity and nations. Through these examinations students will also apply anthropological insights in order to understand how social practices such as participation, collaboration, resistance and violence operate in local political contexts. In the final part of the unit students will assess the various ways anthropologists work with and against local power structures and to what extent ethnography and applied anthropological work can intervene in systems of oppression.

300772.1 Power Electronics

Credit Points 10 **Level** 4

Assumed Knowledge

Basic knowledge of power frequency devices and systems

Prerequisite

300052.2 Power and Machines AND **300025.3** Electronics

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The unit covers various types of power electronics systems, their applications and use in Electrical Drive Systems. It also covers application considerations and modern developments in electronic systems. This course provides the fundamentals of Power Electronics and Industrial Electronics.

300995.1 Power Quality

Credit Points 10 **Level** 4

Assumed Knowledge

Students are expected to be familiar with basic power system calculations including balanced and unbalanced three-phase systems

Unit Enrolment Restrictions

Students must be enrolled in courses 3689 Bachelor of Engineering, 3740 Bachelor of Engineering (Honours) or 3690 Bachelor of Engineering Advanced (Honours) and must have successfully completed 150 credit points.

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This unit is to introduce students to power quality phenomena such as voltage sag/swell, distortions, unbalance, and flicker that occur in power systems. The unit also introduces terms and definitions associated with power quality, following which each phenomenon, that is, voltage sag/swell, transient overvoltage, and harmonics. In addition, flicker is presented and discussed in detail for students to understand the sources and impact of these occurrences on power system as well as typical mitigation techniques. Finally, students are introduced to power quality benchmarking, monitoring and assessment.

300197.3 Power System Planning and Economics

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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This unit covers planning techniques for energy and electrical power systems. It also covers the economics of various options and reliability of electrical power systems.

300771.1 Power Systems

Credit Points 10 **Level** 3

Assumed Knowledge

Basic knowledge of power frequency devices and systems

Prerequisite

300052.2 Power and Machines

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This unit provides students with a global picture of electrical energy systems. It introduces basic processes of generation, transmission and distribution, power system analysis and planning as well as power systems operation under steady-state and transient conditions. Various aspects of power system operation including harmonics, fundamentals of protection, environmental issues and renewable energy systems are covered in this unit.

102618.1 Practical Philosophy

Credit Points 20 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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The unit Practical Philosophy deals with the application of philosophical understanding to human activity. 'Practical philosophy' in principle encompasses questions of the meaning and appropriateness of various practices, as well as theoretical questions about the nature of practices themselves, questions such as 'What should we do?' and 'What is it that we are doing?' The unit may thus involve considering philosophical perspectives on ethical, political, educational, and legal questions, and more abstract considerations relating to practices such as the philosophy of action.

102490.1 Pragmatics

Credit Points 10 **Level** 2

Prerequisite

101945.2 Introduction to Linguistics

Equivalent Units

101441 - English Semantics and Pragmatics

Incompatible Units

101947 - Pragmatics

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This is an optional unit of the Linguistics Major which introduces students to pragmatics, the study of language use in context. It combines theoretical elements with practical applications through examples, exercises and authentic data analysis, which enable students to understand the significance of this field of linguistics to language professions, such as interpreting and translation and language teaching.

301034.1 Predictive Modelling

Credit Points 10 **Level** 3

Prerequisite

For students NOT enrolled in 3734 Bachelor of Data Science - 300700 Statistical Decision Making or 200263 Biometry or 200032 Statistics for Business.

Corequisite

For students enrolled in 3734 Bachelor of Data Science - 301108 Thinking About Data.

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Predictive Modelling forms the basis for understanding relationships between input characteristics and outcomes. Predicting insurance risk, defaults on loans and probability of life on other planets are all examples of Predictive Modelling. In this unit we will look at traditional statistical approaches and some machine learning for predictive modelling.

401001.2 Primary Health Care in Action

Credit Points 10 **Level** 1

Unit Enrolment Restrictions

Students must be enrolled in 4691 Bachelor of Nursing, 4693 Bachelor of Nursing (Advanced) or 4684 Bachelor of Midwifery.

Special Requirements - Essential Equipment

Essential Equipment: Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/wuonline_student_support for further information.

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This unit introduces nursing and midwifery students to Primary Health Care (PHC) as a social model of health and a World Health Organization (WHO) strategy for achieving just and humane health care. The unit explores the impact and relevance of PHC as a framework for organising an Australian health care system that decreases health inequities and optimises the health of all people. Students will examine the dimensions of PHC that assist in establishing collaborative partnerships in which people are supported to take responsibility for their health, including members of culturally diverse groups.

102168.1 Principles and Practices of Evaluation

Credit Points 10 **Level** 7

Equivalent Units

101659 - Evaluating Learning Programs

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This unit provides opportunities to examine and apply evaluation strategies to assess and evaluate learning, educational and social programs and policies. Theories drawn from evaluation will be used to assist students to develop evaluative frameworks and approaches to critically evaluating programs.

200525.3 Principles of Economics

Credit Points 10 **Level** 1

Equivalent Units

200076 - Introductory Economics, 200046 - Microeconomics, EC102A - Principles of Economics, 700006 - Principles of Economics (WSTC)

Unit Enrolment Restrictions

External offerings for this unit during Autumn and Spring are only available to students who are enrolled in a Property course or specialisation.

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This unit is an introduction to economic concepts and contemporary economic issues. It introduces students to basic concepts such as markets and their operation, the behaviour of firms, the efficiency and potential failings of markets, the role of government, key macroeconomic problems such as recessions, inflation and unemployment, as well as contemporary fiscal and monetary policies. It illuminates concepts via application to contemporary economic issues and debates over different theoretical perspectives. This unit also exposes students to recent developments and policy controversies in economics.

300980.1 Principles of Evolution

Credit Points 10 **Level** 2

Prerequisite

300802.1 Biodiversity AND **300816.1** Cell Biology

Special Requirements - Essential Equipment

Students are required to have laboratory coat and covered shoes for practicals

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This unit is designed to impart an understanding of the core concepts in modern evolutionary theory, and an appreciation of the central position it plays in unifying all sub-disciplines of biology. The unit will cover modern synthesis, phylogenetics, phylogeography, origin of variation, genetic drift, natural selection, and coevolution, with a major emphasis on evolutionary mechanisms and analytical techniques.

200964.1 Principles of International Law

Credit Points 10 **Level** 7

Assumed Knowledge

Bachelor of Laws or equivalent qualification

Unit Enrolment Restrictions

Students must be enrolled in courses 8083 Bachelor of Research Studies/Master of Research, 8084/8085 Master of Research and 2784 or 2810 Master of Laws (International Governance).

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This unit explores the nature, role and characteristics of international law; the concepts of statehood; sovereignty and jurisdiction; the relationships between domestic and international law; the role of law and treaties; and the role of international organisations such as the United Nations

and International Court of Justice. The unit also examines contemporaneous and contentious issues of international law.

100483.2 Principles of Professional Communication 1

Credit Points 10 **Level** 1

Equivalent Units

63901 Written and Oral Presentation 2, H1745 Business Skills for Professionals, J1751 Professional Skills for Science and Technology, 700040 Principles of Professional Communication 1 (WSTC)

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The unit provides students with an introductory understanding of a range of communication theories and practices necessary for academic work and professional success.

700040.3 Principles of Professional Communication 1 (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

100483 - Principles of Professional Communication 1

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

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This unit provides students with an introductory understanding of a range of communication theories and practices necessary for academic work and professional success.

300979.1 Principles of Zoology

Credit Points 10 **Level** 2

Prerequisite

300802.1 Biodiversity

Special Requirements - Essential Equipment

Students are required to have laboratory coat and safety goggles.

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Explores the diversity of invertebrate and vertebrate life in a phylogenetic context. Taxonomy, anatomy, ecology, ethology and physiology of major groups of animals are examined. Patterns will be examined from an evolutionary perspective and the unit will focus on structure and function to examine specialisations and adaptations of animals to their environment. The unit will use lectures and laboratory sessions to allow an interactive appreciation of the diversity of biological mechanisms and processes in the Animal Kingdom.

102036.1 Prisons, Punishment and Criminal Justice

Credit Points 10 **Level** 2

Equivalent Units

101558 - Prisons and Punishment

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The demise of corporal punishment and the regular use of imprisonment are defining features of control in modern states. This unit provides an historical and sociological examination of the models, practices and justifications for punishment and incarceration. It begins with an overview of early liberal notions of the social contract, the modern movement away from corporal punishment towards incarceration, and criminology's emphasis on treatment, reform and rehabilitation. Following from this, the unit explores the development of probation and parole systems, decarceration, community corrections, mass imprisonment, and the contemporary control of risk and 'dangerous' populations. These themes are considered through the role of intersecting structural factors such as age, gender, sexuality, social class, racial/ethnic identity and disability, and the impact of imprisonment and corrections on different individuals and groups.

200575.3 Processes and Evaluation in Employment Relations

Credit Points 10 **Level** 3

Prerequisite

200300.2 Managing People at Work

Equivalent Units

200381 - Human Resources Development Seminar

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This unit applies theory and skills developed throughout the discipline in Human Resource Management to real-world organisational and policy challenges and opportunities. Students will develop and use employment relations concepts and "metrics" to design implementation plans and to evaluate policies, practices and change initiatives. Students' skills in communication and problem solving will be assured in this unit.

401205.1 Professional Communication in Nursing

Credit Points 10 **Level** 1

Equivalent Units

401003 Professional Communicatoin

Unit Enrolment Restrictions

Students must be enrolled in 4691 Bachelor of Nursing or 4693 Bachelor of Nursing (Advanced).

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/

services_and_facilities/uwsonline_student_support for further information.

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This unit develops the written and interpersonal skills of students in preparation for professional practice. Students are introduced to the concepts of language, literacy and learning styles that are required for both academic and professional life. Cultural sensitivity, safety and competence that facilitate appropriate intercultural communication are explored within the context of contemporary healthcare.

700283.2 Professional Communication Skills for Engineering (WSTC Prep)

Credit Points 10 **Level** Z

Equivalent Units

700209 Introduction to Academic Communication 1 (WSTC Prep) 900107 Introduction to Academic Communication 1 (WSTC) 700280 Essential Skills for Academic Success (WSTC Prep) 700275 Communication Skills for Construction Management (WSTC Prep) 700276 Academic and Professional Communication(WSTC Prep)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College in 7162 Diploma in Engineering Extended.

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This unit is designed to prepare students for real-life communication scenarios in academic and professional contexts, using authentic tasks and assignments. There is a focus on oral and written English skills using introductory level engineering texts and relevant lexical/ grammatical structures of subject areas.

300975.1 Professional Competencies

Credit Points 10 **Level** 1

Equivalent Units

300674 Engineering, Design & Construction Practice;3 01213 Construction Communication; 700038 Engineering Design & Construction Practice (UWSC); 700107 Engineering, Design & Construction Practice; 700154 Professional Competencies (WSTC)

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From 2019 this unit is replaced by 301213 Construction Communication. This unit encourages students to explore professional responsibilities and challenges faced by construction professionals. Students are introduced to the construction profession through the use of industry case studies and project problems. Students engage in a research and problem-solving task that addresses sustainability imperatives and fosters fundamental research and communication skills. Special emphasis is placed on academic and business literacy, project management and teamwork which equip students for subsequent academic and professional contexts.

700154.2 Professional Competencies (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

300674 - Engineering, Design & Construction Practice, 300975 - Professional Competencies, 700038 - Engineering, Design & Construction Practice (UWSC), 700107 - Engineering, Design & Construction Practice (UWSC Assoc Deg)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

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This unit encourages students to explore professional responsibilities and challenges faced by construction professionals. Students are introduced to the construction management profession through the use of industry case studies and project problems. Students engage in a research and problem-solving task that addresses sustainability imperatives and fosters fundamental research and communication skills. Special emphasis is placed on academic and business literacy, project management and teamwork which equip students for subsequent academic and professional contexts.

300578.3 Professional Development

Credit Points 10 **Level** 3

Assumed Knowledge

Understanding of systems analysis and design.

Equivalent Units

300372 - Professional Preparation and Project Management

Unit Enrolment Restrictions

Successful completion of 140 credit points.

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This is a final year unit that builds on foundation and intermediate computing units to prepare students for professional experience. The unit covers the content in three modules as 1) Ethics and Professional Code of Conduct, 2) Project Management, and 3) Legal, Social, Environmental issues, Quality Assurance and IT Compliance. The content covered in these three modules are carefully designed to fill in the gaps in knowledge that is not so far covered in previous units in preparing students for the challenging projects units and professional working life ahead. This unit is a pre-requisite to the capstone project, covered in Professional Experience Project unit.

300579.6 Professional Experience

Credit Points 10 **Level** 3

Assumed Knowledge

Software development methodologies; Software analysis and design modelling tools and techniques; Programming languages; Implementing databases management systems; Software construction and testing.

Prerequisite

300104.4 Database Design and Development OR **300941.1** Database Design and Development (Advanced) AND **300582.3** Technologies for Web Applications AND **300578.3** Professional Development

Equivalent Units

300097 - Computing Project 1

Unit Enrolment Restrictions

Students must successfully complete 140 credit points, with at least 30 credit points of Level 2 units owned by the School of Computing, Engineering & Mathematics. Due to the capstone nature students must be enrolled in 2768 Bachelor of Information and Communications Technology/ Bachelor of Laws, 2800 Bachelor of Information Systems/ Bachelor of Laws, 3506 Bachelor of Computer Science, 3639 Bachelor of Information and Communications Technology, 3654 Bachelor of Information and Communications Technology/Bachelor of Arts, 3684 Bachelor of Information and Communications Technology (Advanced), 3687 Bachelor of Information Systems, 3711 Bachelor of Information and Communications Technology (Health Information Management), 3737 Bachelor of Information and Communications Technology/ Bachelor of Business, 3738 Bachelor of Information and Communications Technology/Bachelor of Business (Accounting), 3744 Bachelor of Information Systems/ Bachelor of Business, 6034 Diploma/Bachelor of Information and Communications Technology (Health Information Management), 6035 Diploma/Bachelor of Information and Communications Technology or 6036 Diploma in Information and Communications Technology/ Bachelor of Information Systems. This is not an open elective. 300136 IT Support Practicum will not be considered for advanced standing for this unit.

Professional Experience is a final year 'capstone' project unit. This unit provides opportunities for students to gain hands-on experience in software systems requirements definition, analysis, design and implementation, in a real-world setting. Students work in groups, guided by an academic supervisor or an industry mentor, in achieving the goals set by the client that provides the project. Suitable projects are sourced from external organisations or within Western Sydney University by way of giving the students professional experience in independent learning and reflective practice.

300900.2 Professional Experience (Advanced)

Credit Points 10 **Level** 3

Assumed Knowledge

Software development methodologies; Software analysis and design modelling tools and techniques; Programming languages; Implementing databases management systems; Software construction and testing; System documentation; Project Management

Prerequisite

300104.4 Database Design and Development OR **300941.1** Database Design and Development (Advanced) AND **300582.4** Technologies for Web Applications AND **300578.3** Professional Development

Incompatible Units

300098 Computing Project 2; 300136 IT Support Practicum

Unit Enrolment Restrictions

This unit is not an open elective. Permission is required to enrol in this unit for students not in courses 3684 Bachelor of Information and Communications Technology (Advanced); 3688 Bachelor of Information Systems Advanced or 2801 Bachelor of Information Systems Advanced/Bachelor of Laws. Students must be enrolled in any of the SCEN undergraduate computing degrees and must have a course GPA of 5.0 or more and be chosen as a suitable candidate for work placement by the pre-enrolment selection process.

Professional Experience (Advanced) is a final year 'capstone' work-placement unit. This advanced unit provides the opportunity for students to gain hands-on experience in software systems requirements definition, analysis, design, implementation and project management, in an external organisation under the supervision of industry experts. During the work placement students work in a real-life project applying the theories and technical skills learned in previous units in an industry setting. Students are allowed to propose a work-placement of their choice within an external organisation. School will assess the suggested work-placement for its suitability in meeting the set unit outcomes, prior to approval.

400871.2 Professional Health Competencies

Credit Points 10 **Level** 1

Equivalent Units

700067 - Professional Health Competencies (WSTC)

This unit introduces skills for studying and working in health science. Students will gain an understanding of the interdisciplinary and multi-disciplinary nature of health science practice in the 21st century, and how this interacts with the specialty health professions, client and community expectations of health care and employment opportunities in health science. Students will learn foundation competencies that will underpin their academic development and their safe, responsible and ethical practice in health science service environments.

700067.2 Professional Health Competencies (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

400871 - Professional Health Competencies

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College in the courses listed at D1.7. Students enrolled in Extended Diploma courses (7068, 7069, 7078, 7079, 7090, 7091) must have passed 40 credit points of the preparatory units in order to enrol in this unit.

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This unit introduces skills for studying and working in health science. Students will gain an understanding of the interdisciplinary and multi-disciplinary nature of health science practice in the 21st century, and how this interacts with the specialty health professions, client and community expectations of health care and employment opportunities in health science. Students will learn foundation competencies that will underpin their academic development and their safe, responsible and ethical practice in health science service environments.

401312.1 Professional Issues

Credit Points 10 **Level** 4

Unit Enrolment Restrictions

Students must be enrolled in 4763 Bachelor of Speech Pathology or 4764 Bachelor of Speech Pathology (Honours).

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Covering a range of ethical and professional issues for speech pathologists, the Professional Issues unit includes recent professional developments in speech pathology relevant to entry level practitioners, ethical and medico-legal issues, registration as a speech pathologist, communication and working with others (including interprofessional issues), safety, continuing education, workload control strategies, duty of care responsibilities, quality improvement processes (including critical reflection), employment strategies and career pathways.

102430.1 Professional Music Project

Credit Points 10 **Level** 3

Equivalent Units

101472 - Music Project

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This unit is a study of music practice that provides students with the opportunity to create and present musical projects in the community or undertake industry internships and in so doing, develop professional practice knowledge and career readiness. It is designed to offer students insight into the practical realities of music careers post tertiary education. Musical projects may incorporate performance, composition, sound technologies, theoretical or industry-related work, music in the broader community, or any combination of these to possible or actual audiences within and beyond Western Sydney University. Students will

participate in aspects of a music festival undertaken on-campus, in the years that this occurs. The unit allows students to generate extended material, to work in groups or as individuals, to document and analyse their process, to engage in practice-led writing and aspects of music business, and to bring together skills and knowledge developed in previous years. It asks the students to determine who their audience is, how they reach the identified audience and how to bring that audience to their project.

400783.2 Professional Pathways in Health Science

Credit Points 10 **Level** 1

Equivalent Units

400769 - Foundations of Health Sciences, 400242 - Foundation of Therapeutic Recreation, 700075 - Professional Pathways in Health Science (UWSC)

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The unit introduces students to the health science workforce. It discusses professional issues, history and philosophy in health sciences as they relate to health promotion, health service management, therapeutic recreation and public health. In addition, this unit explores the career pathways for health science students, discusses the Australian health system, and examines the impacts of potential changes in the health system to a career in health science. This unit helps students define what area within health science they would like to examine and study in more detail.

700075.2 Professional Pathways in Health Science (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

400783 - Professional Pathways in Health Science, 400769 - Foundations of Health Science, 400242 - Foundations of Therapeutic Recreation.

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

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This unit introduces students to professional issues, history and the philosophy in health sciences: health promotion, health service management and therapeutic recreation. Theories and key concepts of health promotion, health service management and therapeutic recreation are introduced. Students will be introduced to an understanding of human development and the health science processes. Students will examine how human growth and development influences development of socio-economic, cultural, gender, environmental, health science issues. Students will begin an electronic portfolio to help them take more control over their education and assist students to make

connections with their learning experiences while building critical and reflective skills.

300053.4 Professional Practice

Credit Points 10 **Level** 3

Assumed Knowledge

Some experience with the range of employment opportunities that are available in the Australian construction industry.

Prerequisite

300975.1 Professional Competencies OR **300964.1** Introduction to Engineering Practice

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This unit focuses on ethical conduct for construction managers and on the range of procurement systems utilised in the modern construction industry. It deals with matters of professional responsibility to the community, as well as, honourable and lawful practices in the conduct of business. The issues of confidentiality of information and conflict of interest are examined in the context of real project histories. Risk management and its relationship with quality project delivery are considered in the light of the changing nature of an industrialised, digitalised and globalised construction industry.

401000.2 Professional Practice Experience 1

Credit Points 10 **Level** 1

Corequisite

401205.1 Professional Communication in Nursing

Equivalent Units

400745 - Nursing, Health and Wellbeing

Unit Enrolment Restrictions

Students must be enrolled in 4691 Bachelor of Nursing or 4693 Bachelor of Nursing (Advanced).

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit introduces beginning students of nursing to the principles, concepts and skills used to identify, problem-solve, promote, maintain and support health and well-being across the lifespan.

401004.2 Professional Practice Experience 2

Credit Points 10 **Level** 1

Assumed Knowledge

Baseline skills and knowledge. Information that informs safe, competent pract

Prerequisite

401000.2 Professional Practice Experience 1

Corequisite

401006.2 Bioscience 2

Equivalent Units

400749 - Nursing and Health Breakdown

Unit Enrolment Restrictions

Students must be enrolled in 4691 Bachelor of Nursing or 4693 Bachelor of Nursing (Advanced).

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit focuses on the role and skills of nursing in promoting, maintaining and supporting health across the lifespan. Principles and practices of nursing care will be applied in simulated, service learning and practice environments, particularly in the health priority areas of Injury prevention and control and obesity. Theoretical underpinnings specifically related to this unit are found in Human Relationships and Life Transitions, Bioscience 2 and Approaches to Professional Practice. The unit includes 80 hours of clinical placement.

401008.2 Professional Practice Experience 3

Credit Points 10 **Level** 2

Assumed Knowledge

Foundational knowledge of primary health care, professional communication, roles and responsibilities of registered nurse and human biological and behavioural sciences.

Prerequisite

Pre-requisites for courses 4691 and 4693: 401000 Professional Practice Experience 1 and 401004 Professional Practice Experience 2. Pre-requisites for course 4692: 401029 Foundations for Nursing Practice.

Corequisite

Co-requisites for courses 4691 and 4693: 401207 Health Variations 1: Perioperative. Co-requisites for course 4692: 401207 Health Variations 1: Perioperative and 401218 Graduate Entry Practice Experience.

Unit Enrolment Restrictions

Students must be enrolled in 4691 Bachelor of Nursing, 4693 Bachelor of Nursing (Advanced) or 4692 Bachelor of Nursing Graduate Entry.

Special Requirements - Essential Equipment

Essential Equipment: Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

This unit extends on the concepts and skills introduced in Year 1 nursing studies. The unit is theoretically aligned with Health Variations 1. The unit will focus on the role and skill development of the nurse in assessing and caring for people across the lifespan who are experiencing acute but usually resolvable conditions. The unit integrates the perioperative experience with the National Health Priority areas relating to Arthritis and Musculoskeletal conditions; Cancer Control and Injury Prevention and Control. The unit includes 160 hours of clinical placement.

401012.2 Professional Practice Experience 4

Credit Points 10 **Level** 2

Assumed Knowledge

Foundational knowledge of primary health care, professional communication, roles and responsibilities of the registered nurse, perioperative nursing, and human biological and behavioural sciences.

Prerequisite

Pre-requisites for courses 4691 and 4693: 401000 Professional Practice Experience 1, 401004 Professional Practice Experience 2 and 401008 Professional Practice Experience 3. Pre-requisites for course 4692: 401008 Professional Practice Experience 3 and 401029 Foundations for Nursing Practice.

Corequisite

Co-requisite units for 4691: 401207 Health Variations 1: Perioperative, 401209 Health Variations 2: Chronic Illness and Disability and 401210 Health Variations 3: Acute Exacerbations of Chronic Conditions. Co-requisites for 4692: 401207 Health Variations 1: Perioperative, 401209 Health Variations 2: Chronic Illness and Disability, 401210 Health Variations 3: Acute Exacerbations of Chronic Conditions and 401218 Graduate Entry Practice Experience. Co-requisite units for 4693: 401207 Health Variations 1: Perioperative, 401215 Health Variations 2 (Advanced): Chronic Illness and Disability and 401210 Health Variations 3: Acute Exacerbations of Chronic Conditions.

Unit Enrolment Restrictions

Students must be enrolled in 4691 Bachelor of Nursing, 4693 Bachelor of Nursing (Advanced) or 4692 Bachelor of Nursing Graduate Entry.

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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Professional Practice Experience 4 focuses on the care of people experiencing an acute exacerbation of a chronic condition. Principles and practices of nursing care will be undertaken in simulated and practice environments, particularly in the National Health Priority areas of cardiovascular health, asthma, diabetes mellitus, arthritis and musculoskeletal conditions, and mental health. The unit includes 160 hours of clinical placement.

401016.2 Professional Practice Experience 5

Credit Points 10 **Level** 3

Assumed Knowledge

Year 1 and Year 2 Undergraduate Nursing Studies

Prerequisite

Pre-requisites for 4691: 401000 Professional Practice Experience 1, 401004 Professional Practice Experience 2, 401008 Professional Practice Experience 3 and 401012 Professional Practice Experience 4. Pre-requisites for 4692: 401008 Professional Practice Experience 3, 401012 Professional Practice Experience 4, 401029 Foundations for Nursing Practice and 401218 Graduate Entry Practice Experience. Pre-requisites for 4693: 401000 Professional Practice Experience 1, 401004 Professional Practice Experience 2, 401008 Professional Practice Experience 3, 401012 Professional Practice Experience 4.

Corequisite

Co-requisites for 4691 and 4692: 401211 Health Variations 4 - Acute Life Threatening Conditions and 401212 Health Variations 5 - Palliative and End of Life Care. Co-requisites for 4693: 401216 Health Variations 4 (Advanced) - Acute Life Threatening Conditions and 401212 Health Variations 5 - Palliative and End of Life Care.

Unit Enrolment Restrictions

Students must be enrolled in 4691 Bachelor of Nursing, 4693 Bachelor of Nursing (Advanced) or 4692 Bachelor of Nursing Graduate Entry.

Special Requirements - Essential Equipment

Essential Equipment: Students must wear the School of Nursing and Midwifery clinical uniform, including correct fully enclosed ALL black shoes [that meet WHS requirements - Shoes must be low heeled, fully enclosed, non-slip soles (Reeboks, joggers, sandshoes, sneakers, gym shoes, sandals, slippers, ballet shoes, etc. are NOT acceptable.)] to all CPU classes and the clinical placement. The uniform can be purchased from the retail store on campus. Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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The focus of this unit is to provide nursing students with the problem-solving skills required in assessing and caring for people across the lifespan who are experiencing acute life-threatening illness and end of life conditions. Through a primary health care approach, the unit will use the National Health Priorities of Cardiovascular Health, Injury Prevention and Control, Cancer Control, Mental Health and dementia to exemplify the inter-relationship between acute and chronic conditions and the nursing responsibilities related to life threatening illness and end of life care. The unit includes 240 hours of clinical placement.

401020.3 Professional Practice Experience 6

Credit Points 10 **Level** 3

Prerequisite

Pre-requisites for 4691 and 4693: 401000 Professional Practice Experience 1, 401004 Professional Practice Experience 2, 401008 Professional Practice Experience 3 and 401012 Professional Practice Experience 4. Pre-requisites for 4692: 401008 Professional Practice Experience 3, 401012 Professional Practice Experience 4, 401029 Foundations for Nursing Practice, and 401218 Graduate Entry Practice Experience.

Corequisite

Co-requisites for 4691 and 4692: 401017 Promoting Mental Health and Wellbeing 2 and 401016 Professional Practice Experience 5. Co-requisites for 4693: 401025 Promoting Mental Health and Wellbeing 2 (Advanced) and 401016 Professional Practice Experience 5.

Unit Enrolment Restrictions

Students must be enrolled in 4691 Bachelor of Nursing, 4693 Bachelor of Nursing (Advanced) or 4692 Bachelor of Nursing Graduate Entry.

Special Requirements - Essential Equipment

Students must wear the School of Nursing and Midwifery clinical uniform, including correct fully enclosed ALL black shoes [that meet WHS requirements - Shoes must be low heeled, fully enclosed, non-slip soles (Reeboks, joggers, sandshoes, sneakers, gym shoes, sandals, slippers, ballet shoes, etc. are NOT acceptable.)] to all CPU classes and the clinical placement. The uniform can be purchased from the retail store on campus. Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit provides a unique opportunity to consolidate and extend the students skill base in preparation for graduate practice. Students will gain an understanding of the congruence between the provision of health care and professional regulatory frameworks in dynamic healthcare contexts. The role of the graduate nurse will be explored through critical reflection and critical thinking of case studies that reflect person-centered practice. The unit includes 240 hours of clinical placement.

700118.2 Professional Practice for Engineer Associates (WSTC AssocD)

Credit Points 10 **Level** 2

Prerequisite

700109.2 Engineering Management for Engineer Associates (WSTC AssocD)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College in 7022 Associate Degree in Engineering.

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This unit will provide the knowledge and skills to enable students to support the achievement of organisational goals through applying knowledge of environment and internal culture. The unit evaluates planning processes and goal setting to achieve superior performance and compares alternative approaches to motivation of work team members. Students will consider types of managerial communications and their associated communications channels in achieving best professional practice.

400968.2 Professional Practice in Aged Care and Disability

Credit Points 10 **Level** 3

Equivalent Units

400248 - Professional Practice in Aged Care, 400790 - Professional Practice in Aged Care and Disability

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This unit provides the student with an understanding of current trends underlying policies and services in the aged care and disability industry, which will help them to understand the dynamics of the changing aged care and disability service sector. Students will examine the strategic environments of aged care and disability to develop global and national perspectives, identify drivers of change and development, and the major players in aged care and disability policies. Students will develop an understanding of the aged care and disability competencies and determinants of well-being for aged and disabled persons, which can be used in their future roles in the health industry. Through reflections on practice in aged care and disability, students will develop an individual approach to aged care and disability service issues which they can use in the future as health care professionals.

401125.1 Professional Reasoning

Credit Points 10 **Level** 4

Prerequisite

400176.3 Occupation and Ageing AND **400162.3** Child and Adolescent Occupations

Corequisite

400910.1 Occupational Therapy Practice 3

Incompatible Units

400925 - Professional Reasoning

Unit Enrolment Restrictions

Students must be enrolled in 4711 Bachelor of Occupational Therapy or 4712 Bachelor of Occupational Therapy (Honours). This is a specialty unit offered as a compulsory core unit of the occupational therapy program. It is profession specific, preparing students to practice as an occupational therapist and not relevant as an elective for non-occupational therapy students.

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This final year unit focuses on the transition from student to practitioner. The aim of this unit is to provide students with learning opportunities that will consolidate and enhance their competence in professional practice throughout their career. Professional competencies of central concern include advanced clinical reasoning skills, evidence based-

Units

practice, reflective practice, personal and career management strategies, self-directed and life-long learning. These competencies contribute positively to the effective management of graduates' clinical practice in various work contexts, and their future career paths. Acquisition of such skills will allow the graduate to direct and adapt to change in these areas.

200020.5 Professional Responsibility and Legal Ethics

Credit Points 10 **Level** 3

Corequisite

200006.2 Introduction to Law OR **200977.1** Fundamentals of Australian Law

Equivalent Units

69024 - Professional Conduct and Legal Ethics, F1002 - The Legal Context

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This unit examines the nature of the legal profession and its role in society. It deals with the professional, legal and ethical responsibilities legal practitioners owe to the law, the courts, their clients and to fellow practitioners, as well as the state and society at large. Students will be able to explain and evaluate the law and practice of legal practitioners, by reference to key topics, such as: professionalism; legal ethics; the history, structure and regulation of the legal profession; and the interpersonal, psychological and cultural factors affecting lawyering. In addition students will be able to demonstrate the process of ethical decision making by selecting and using ethical decision making tools in a legal context.

400786.4 Professional Transition Project

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Students must be enrolled in the Bachelor of Health Science or Bachelor of Health Science (Paramedicine) or 6000 Diploma in Health Science/Bachelor of Health Science. Students in the Bachelor of Health Science or Diploma in Health Science/Bachelor of Health Science must have completed 120 credit points. Students in the Bachelor of Health Science (Paramedicine) must have completed 200 credit points.

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This unit is designed to assist students to make the transition from undergraduate student life to professional life. Professional Transition Project provides students with a unique opportunity to integrate knowledge gained throughout their course from an operational, practical and theoretical perspective into an engaging project. Students will engage in comprehensive projects which bring together real world opportunities and health science theory.

700047.3 Programming Design (WSTC Prep)

Credit Points 5 **Level** Z

Assumed Knowledge

The ability to create a mathematical expression for a given problem scenario. This would require knowledge of basic arithmetic, percentages and simple statistical measures.

Equivalent Units

700016 - Programming Design (UWSCDip); 900009 - Programming Design (UWSC)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

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This unit introduces students to the principles required for the effective design and development of solutions to computer program related problems. This unit has been developed to enhance a student's practical ability as well as build a solid theoretical foundation for further study in programming.

300580.3 Programming Fundamentals

Credit Points 10 **Level** 1

Assumed Knowledge

High school mathematics at Year 10 level.

Equivalent Units

300405 - Fundamentals of Programming, 300155 - Programming Principles 1, 200122 - Business Application Development 1, 700008 - Programming Fundamentals (WSTC)

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As a first unit in computer programming, Programming Fundamentals covers the basics of developing software with an emphasis on procedural programming. Students will learn about basic data structures, the concept of algorithms, fundamental programming constructs, common programming language features and functions, program design and good programming style. A high level programming language is combined with a highly visual framework to teach problem solving using software.

700008.4 Programming Fundamentals (WSTC)

Credit Points 10 **Level** 1

Prerequisite

Students enrolled in 7067 Diploma in Information and Communications Technology Extended, 7083 Bachelor of Information and Communications Technology Extended (WSTC FYP), must pass 700199 Academic Communication 2 (WSTC Prep) or 700208 English for Tertiary Study 2 (WSTC Prep) or 700210 Introduction to Academic Communication 2 (WSTC Prep), and must pass 700201 Computer Studies (WSTC Prep), and must pass 700047 Programming Design (WSTC Prep), and must pass 700146 Mathematics 2 (WSTC Prep) before enrolling in this unit. Students enrolled in 6035 Diploma/Bachelor of Information and Communications Technology, 6036 Diploma in Information and Communications Technology/Bachelor of Information Systems and 7005 Diploma in Information and Communications Technology must pass 700047 Programming Design (WSTC Prep) before enrolling in this unit. Students enrolled in 6038 Dip in Information and Communications Technology /BICT(HIM), 6039 Diploma in Information and Communications Technology/BICT, 6040 Diploma in Information and Communications Technology/BIS, 7067 Diploma in

Information and Communications Technology Extended, 7083 Bachelor of Information and Communications Technology Extended (WSTC First Year Program), 7134 Diploma in Information and Communications Technology Extended - ICT, 7138 Diploma in Information and Communications Technology Extended-ICT, 7139 Diploma in Information and Communications Technology Extended, 7140 Diploma in Information and Communications Technology Extended-IS, 7141 Diploma in Information and Communications Technology Extended-HIM, 7163 Diploma in Information and Communications Technology (International) and 7164 Dip Information and Communications Technology (HIM) (International) must pass 700047 Programming Design (WSTC Prep) and must pass 700146 Mathematics 2 (WSTC Prep) before enrolling in this unit.

Equivalent Units

300405 - Fundamentals of Programming, 300155 - Programming Principles 1, 200122 - Business Application Development 1, 300580 - Programming Fundamentals

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

As a first unit in computer programming, Programming Fundamentals covers the basics of developing software with an emphasis on procedural programming. Students will learn about basic data structures, the concept of algorithms, fundamental programming constructs, common programming language features and functions, program design and good programming style. A high level programming language is combined with a highly visual framework to teach problem solving using software.

300581.4 Programming Techniques

Credit Points 10 **Level** 2

Prerequisite

300580.2 Programming Fundamentals

Equivalent Units

300156 - Programming Principles 2, 700257 - Programming Techniques (WSTC)

Incompatible Units

300903 - Programming Techniques (Advanced)

This unit is intended as a second unit of study in programming. It builds on a basic understanding of procedural programming as would be developed in a first unit. This unit continues the development of programming skills and methodologies required for professional programming and for further study in later computing units. Topics covered include multi-dimensional arrays, file I/O, searching and sorting, and an introduction to object-oriented programming involving classes and inheritance.

300903.1 Programming Techniques (Advanced)

Credit Points 10 **Level** 2

Prerequisite

300580.2 Programming Fundamentals

Incompatible Units

300581 - Programming Techniques

Unit Enrolment Restrictions

Students must be enrolled in 3685 Bachelor of Computing (Information Systems) Advanced or 3684 Bachelor of Information and Communication Technology (Advanced)

This unit is intended as a second unit of study in programming. It builds on a basic understanding of procedural programming as would be developed in a first unit. This unit continues the development of programming skills and methodologies required for professional programming and for further study in later computing units. Topics covered include multi-dimensional arrays, file I/O, searching and sorting, and an introduction to object-oriented programming involving classes and inheritance. Students in this advanced unit will also investigate and apply advanced concepts such as function overloading and recursion.

700257.1 Programming Techniques (WSTC)

Credit Points 10 **Level** 2

Prerequisite

700008.1 Programming Fundamentals (UWSC)

Equivalent Units

300581 - Programming Techniques; 300156 - Programming Principles 2

Incompatible Units

300903 - Programming Techniques (Advanced)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in the Extended Diploma courses must have passed 40 credit points in order to enrol in this unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

This unit is intended as a second unit of study in programming. It builds on a basic understanding of procedural programming as would be developed in a first unit. This unit continues the development of programming skills and methodologies required for professional programming and for further study in later computing units. Topics covered include multi-dimensional arrays, file I/O, searching and sorting, and an introduction to object-oriented programming involving classes and inheritance

300727.2 Project Management

Credit Points 10 **Level** 3

Assumed Knowledge

An understanding of basic knowledge in building and construction.

Equivalent Units

MG313A - Project Management

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This unit is to give students an understanding of appropriate methods of managing construction projects and to develop skills in using these methods on the type of projects the students expect to undertake in their professional careers. Content: Major knowledge areas of project management.

401013.2 Promoting Mental Health and Wellbeing 1

Credit Points 10 **Level** 2

Assumed Knowledge

Primary health care, professional communication, foundational concepts in human behavioural science and their application to nursing or midwifery practice, roles and responsibilities of registered nurse or midwife.

Equivalent Units

400759 - Mental Health Nursing 1

Unit Enrolment Restrictions

Students must be enrolled in 4691 Bachelor of Nursing, 4693 Bachelor of Nursing (Advanced), 4692 Bachelor of Nursing Graduate Entry or 4684 Bachelor of Midwifery.

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit introduces students to the care of individuals with mental health concerns and/or illness. The national mental health policies provide a framework to focus on a range of determinants and consequences of mental health and illness in Australia. The principles of stress vulnerability and recovery will be introduced. The unit will offer an introduction for students to caring for individuals with depression, anxiety and substance use, and their families/significant others. The concepts of therapeutic use of self and reflection when engaging with people with mental health needs will be introduced. Students will develop their knowledge of mental health assessment, risk assessment and risk management across the lifespan. Self-care strategies in everyday collaborative nursing and midwifery practice will be considered.

401017.2 Promoting Mental Health and Wellbeing 2

Credit Points 10 **Level** 3

Assumed Knowledge

Knowledge related to primary health care, professional communication, behavioural and social sciences, and nursing practice; foundational principles of mental health and wellbeing.

Prerequisite

Pre-requisites for 4691: 401000 Professional Practice Experience 1, 401004 Professional Practice Experience 2, 401008 Professional Practice Experience 3 and 401012 Professional Practice Experience 4. Pre-requisites for 4692: 401029 Foundations for Nursing Practice, 401008 Professional Practice Experience 3 and 401012 Professional Practice Experience 4.

Corequisite

401013.1 Promoting Mental Health and Wellbeing 1

Equivalent Units

400762 Mental Health Nursing

Unit Enrolment Restrictions

Students must be enrolled in 4691 Bachelor of Nursing or 4692 Bachelor of Nursing Graduate Entry.

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit builds on the foundations of mental health and wellbeing established in earlier units. The relationship between stress and vulnerability will be explored within the context of the psychotic disorders schizophrenia and bipolar affective disorder. Students will gain an understanding of how the principles of recovery, introduced in an earlier unit, are applied to caring for people with schizophrenia and bipolar affective disorder. Altered mood, perception, and thinking will be explored and evidence-based assessment tools and biological and psychosocial interventions introduced for facilitating recovery towards mental health and wellbeing.

401025.2 Promoting Mental Health and Wellbeing 2 (Advanced)

Credit Points 10 **Level** 3

Assumed Knowledge

Knowledge related to primary health care, professional communication, behavioural and social sciences, and nursing practice, foundational principles of mental health and wellbeing.

Prerequisite

401000.1 Professional Practice Experience 1 AND **401004.1** Professional Practice Experience 2 AND

401008.1 Professional Practice Experience 3 AND
401012.1 Professional Practice Experience 4

Corequisite

401013.1 Promoting Mental Health and Wellbeing 1

Unit Enrolment Restrictions

Students must be enrolled in 4693 Bachelor of Nursing (Advanced).

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit will expand further the concepts of mental health and wellbeing established in Promoting Mental Health and Wellbeing 1. The relationship between stress and vulnerability will be critically analysed within the context of the psychotic disorders such as schizophrenia and bipolar affective disorder. Altered mood, perception, and thinking will be explored and evidence-based assessment tools and biological and psychosocial interventions introduced for facilitating recovery towards mental health and wellbeing.

200894.1 Property Development

Credit Points 10 **Level** 7

Equivalent Units

MCB617 - Property Development (V2)

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course.

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In 2019 this unit is replaced by 201013 Sustainable Property Development. Property development is an extremely complex activity which involves a vast range of considerations over a wide range of inter-related subject areas. It is probably the most complex activity undertaken by property people except perhaps 'active' property management which should incorporate property development activities. The aims of this unit are to provide a wide ranging study of the property development process including such considerations as the objectives, functions, roles and methods of operation of all those involved in the development process, the financial aspects of development, social considerations, taxation aspects, planning matters and others, and to provide students with the opportunity to develop their understanding of and their expertise in the subject.

200874.1 Property Development Process

Credit Points 10 **Level** 3

Assumed Knowledge

It is assumed that students will have a sound knowledge of valuation practices and principles, economic theory and town planning principles.

Equivalent Units

DN310A Property Development, 200598 Property Development

Unit Enrolment Restrictions

External offerings for this unit are only available to students who are enrolled in a Property course or specialisation.

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In this unit, students critically evaluate the property development process, from the initial development concept through to the end-use of completed development projects. Consideration is given to the implications of the property development process and development decisions from the viewpoints of developers, end users, financiers, public authorities and the community. Students acquire a theoretical understanding of the property development process, development appraisal techniques including financial and feasibility aspects, as well as an understanding of how to apply these techniques to a property scenario. Planning issues are also critically examined.

200875.1 Property Finance

Credit Points 10 **Level** 3

Assumed Knowledge

It is assumed that students will have a sound knowledge of: 1. Valuation and financial mathematics 2. Concepts of discounted cash flow analysis and application 3. Statutory valuation legislation and procedures 4. Property portfolio analysis and property investment analysis and application

Equivalent Units

CO308A Property Finance and Tax, 200597 Property Finance and Tax

Unit Enrolment Restrictions

External offerings for this unit are only available to students who are enrolled in a Property course or specialisation.

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The aim of this unit is to provide insight into property finance in Australia and overseas. Students critically review equity and debt financing and examine the financing alternatives available, as well as methods for evaluating these alternatives. Students also examine the impact of debt financing on a property and evaluate the taxation aspects of property transactions. In addition, students gain both a theoretical and an applied understanding of an after-tax cash flow projection in this unit. International property finance is also addressed.

200749.2 Property Investment

Credit Points 10 **Level** 3

Assumed Knowledge

Students undertaking this unit require the background knowledge achieved through prior study in the general principles of valuation.

Equivalent Units

200437 - Property Investment

Unit Enrolment Restrictions

External offerings for this unit are only available to students who are enrolled in a Property course or specialisation.

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Property Investment addresses critical issues in property investment analysis. The characteristics and fundamentals of property investment will be addressed. Students will learn and apply the concepts of property economics, market analysis, valuation, financial analysis and risk analysis in making property investment decision. The subject pays special attention to the discounted cash flow method as the basis of analysis for investment properties. Finally, students will be introduced to property finance, taxation and international property investment issues.

200873.1 Property Portfolio Management

Credit Points 10 **Level** 3

Assumed Knowledge

A sound understanding of commercial property.

Equivalent Units

200750 Property Portfolio Analysis (V2), 200438 Property Portfolio Analysis (V2)

Unit Enrolment Restrictions

External offerings for this unit are only available to students who are enrolled in a Property course or specialisation.

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This unit examines the role of property in an investment portfolio, with particular attention given to property portfolio performance analysis and property investment strategy. Indirect property investment vehicles in Australia and overseas are assessed, including Real Estate Investment Trusts, property syndicates, property securities funds and unlisted property funds. The performance analysis of both direct and indirect property is also examined to assess the strategic contribution of property to an investment portfolio.

101614.3 Psychology and Health

Credit Points 10 **Level** 1

Equivalent Units

400136 - Introduction to the Psychology of Health, 700060 - Psychology and Health (UWSC)

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This unit provides an introduction to the psychology of health and mental health as relevant to health science professions. Students will be introduced to the principles and applications of psychology and health behaviour, and to the main mental illnesses, using a developmental framework. This will be followed by an examination of the psychological aspects of injury and illness and an introduction to psychological interventions. Emphasis is upon understanding health status and mental illness in light of relevant theory and research.

700060.3 Psychology and Health (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

101614 - Psychology and Health

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

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This unit provides an introduction to the psychology of health and behaviour as relevant to the health sciences. Students will be introduced to the principles and applications of psychology and health behaviour using a developmental framework. This will be followed by an examination of the psychological aspects of injury and illness and an introduction to psychological interventions for health concerns. Emphasis is on understanding health status and behaviour in light of relevant theory and research.

100023.6 Psychology of Language

Credit Points 10 **Level** 3

Assumed Knowledge

Solid understanding of perception, cognitive processes, and experimental design and analysis in psychology and/or a solid understanding of linguistics and research methods in linguistics.

Unit Enrolment Restrictions

Successful completion of 120 credit points.

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This unit acquaints students with major issues in the psychology of language. Through a series of online modules, it examines different approaches to research and theory on questions such as: the acquisition and development of language; the relationship between language and thought; bilingualism and multilingualism; speech perception and production; sign language; reading and writing; the neurophysiological underpinnings of language; patterns of language breakdown and communication disorders; social aspects of language; language in non-human animals. The tutorials take a hands-on approach, where students learn new skills, such as reading and producing phonetic symbols, creating stimuli for use in psycholinguistic research, and analysing children's speech.

101183.3 Psychology: Behavioural Science

Credit Points 10 **Level** 1

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Psychology is a field of scientific inquiry that uses a set of scientific techniques and methods to explain and understand the causes of behaviour. This unit introduces students to the discipline of psychology through a focus on

physiological basis of behaviour, memory, language and thought, sensation and perception, motivation, emotion, learning, and the research methods used to scientifically study behaviour. In this general introductory topic students explore how psychology, as a profession, applies its knowledge to practical problems in human behaviour and provides a foundation for more advanced units for students continuing to further studies.

101184.3 Psychology: Human Behaviour

Credit Points 10 **Level** 1

Psychology is a field of scientific inquiry that uses a set of scientific techniques and methods to explain and understand the causes of behaviour. As a profession, psychology applies its knowledge to practical problems in human behaviour. This unit covers a range of topics in psychology at an introductory level including: the history of psychology, intelligence, social psychology, developmental psychology, indigenous and cultural psychology, personality, and abnormal psychology.

401225.2 Psychosocial Issues in the Perinatal Period

Credit Points 10 **Level** 3

Prerequisite

[401036.2](#) Complex Care 1

Corequisite

[401039.2](#) Complex Care 2 AND [401223.1](#) Midwifery Professional Practice 5 AND [401040.2](#) Collaborative Care

Equivalent Units

401041 Midwifery Practice – Teaching and Learning

Unit Enrolment Restrictions

Students must be enrolled in 4684 Bachelor of Midwifery

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

In this unit students will gain knowledge of the psychosocial risk and protective factors that influence outcomes for women and their babies. Students will explore issues related to perinatal mental health. This will include antenatal and postnatal depression and anxiety, substance misuse, domestic violence and the midwife's role in supporting women and their families in perinatal grief and loss situations. Through interactive discussions and role play students will strengthen their skills in psychosocial assessment and working in partnership with women and families to explore concerns, facilitate behaviour change in individual and group-based learning contexts and identify effective early intervention strategies and referral pathways.

400285.2 Public Health

Credit Points 10 **Level** 2

This is a flexible learning unit that deals with foundational concepts and issues relating to public health. The philosophical and historical development and the roles of public health in Australia are examined, as are the theories, policies, politics and principles that govern and inform practice. Emphasis is placed on understanding health issues and concerns in Greater Western Sydney Region as well as on national and international contexts of population health. The unit draws on current and emerging practical situations to highlight the dynamic yet continuing legacy of public health.

102574.1 Public Health in Complex Emergencies (Advanced)

Credit Points 10 **Level** 7

The health, socio-economic, and political aspects of conflicts and disasters are complex and multidimensional requiring political commitment and coordinated and effective prevention. This unit uses critical analyses to provide students with the skills and knowledge required to understand the politics of public health response in emergency situations. Students will be introduced to rapid health assessment protocols in, and health priorities and the prevention of public health effects of, complex emergencies. They will gain practical skills to evaluate and critically appraise the evidence used to inform public health policy and the effectiveness of different decision-making practices in emergency situations.

401193.1 Public Health Practice

Credit Points 10 **Level** 3

Assumed Knowledge

Fundamentals of public health, determinants of health, Australian health system.

Prerequisite

[400285.2](#) Public Health

Unit Enrolment Restrictions

Students must be enrolled in 4656 - Bachelor of Health Science (Public Health) or 6000 Diploma in Health Science/ Bachelor of Health Science

Special Requirements - Essential Equipment

As a unit that is only offered online students will need to have access to a computer with standard features for the full range of online activities.

This unit is an online equivalent of a workplace learning (placement) unit. You will engage in workplace activities with a public health organisation by using prepared resources, online discussion and videoconferencing. In this unit you will evaluate, develop and recommend public health policy or program change. The unit will involve the use of skills required to work in the public health arena; conducting needs analysis, collecting quantitative and

qualitative data, facilitating stakeholder engagement, project development, management and evaluation, report writing and competent oral presentation skills, in an organisational setting.

300748.2 Quality and Value Management

Credit Points 10 **Level** 3

Equivalent Units

200469 - Quality and Value Management

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Introduces students to the concepts of quality systems value management techniques and their application to the built environment. Students will gain knowledge of quality assurance and value management theories, techniques and principles so that they can apply as they enter into their professional careers.

300922.2 Quality Assurance and Food Analysis

Credit Points 10 **Level** 3

Assumed Knowledge

Students require good understanding of the principles of food preservation and HACCP (Hazard Analysis Critical Control Point).

Prerequisite

300842.2 Food Science 2

Equivalent Units

300785 - Quality Assurance and Food Analysis

Incompatible Units

300636 - Food Processing and Analysis, 300701 - Food Quality Assurance, 300500 - Quality Assurance and Food Safety, FS326A - Food Science and Technology Practicum 3.2, FS322A - Food Evaluation

Special Requirements - Essential Equipment

Students are required to have Personal Protection Equipment for attendance at practical, ie. Laboratory coat, safety goggles, enclosed shoes.

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This unit covers the knowledge and tools required to maintain food quality. Students will develop an awareness of food laws, regulations and codes at the state, national and international levels. Students will be introduced to elementary toxicology and risk analysis as it applies to the regulation of food additives. The unit also integrates previous studies in HACCP (Hazard Analysis Critical Control Point) to develop deeper understanding of food quality assurance and quality management systems as they are applied to the control and management of the food supply. Students are introduced to the standard methods of analysis of foods as used for nutritional and quality assessment of foods. Practicals include determination of major and minor food components; functionality tests and sensory analysis of foods.

200045.3 Quantitative Project

Credit Points 10 **Level** 3

Prerequisite

Students must have successfully completed 30 credit points of Level 2 mathematics/statistics units from 200028 Advanced Calculus, 200033 Applied Statistics, 200030 Differential Equations, 300606 Foundations of Statistical Modelling and Decision Making, 200042 Introduction to Operations Research, 200027 Linear Algebra, 200029 Numerical Analysis. Students must also have completed 30 credit points of Level 3 mathematics/statistics units from 200193 Abstract Algebra, 200023 Analysis, 200036 Data Mining and Visualisation, 200022 Mathematical Modelling.

Unit Enrolment Restrictions

This is an advanced project unit involving individual supervision of students. Students must have successfully completed 30 credit points of Level 2 mathematics/statistics units and 30 credit points of Level 3 mathematics/statistics units as noted in the prerequisite information. These restrictions are to ensure that students have sufficient mathematical maturity to undertake an independent project, and because staffing limitations preclude the unit from being offered to less prepared students.

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In this unit, students can deepen and/or apply knowledge gained during their course and practise oral and written presentation skills. Students will carry out a project under the supervision of an academic staff member. Assisted by their supervisor, students will define the problem to be studied and then acquire, develop and/or apply the appropriate theory or methodology. They will prepare a final report presenting theoretical results or methodology, an analysis and a discussion followed by an appropriate conclusion, and a literature review or a list of references as appropriate. Students will also give a talk on their project.

300831.3 Quantitative Thinking

Credit Points 10 **Level** 1

Assumed Knowledge

Basic competence in algebraic manipulation and some familiarity with elementary probability and statistical concepts.

Equivalent Units

200191 - Fundamentals of Mathematics; 700123 Quantitative Thinking (WSTC)

Unit Enrolment Restrictions

Students may complete the three units Quantitative Thinking, Analysis of Change and Mathematics 1A in the following order: 300831 Quantitative Thinking, 300830 Analysis of Change, 300672 Mathematics 1A. This means that students may complete 300831 before attempting 300830, but not after. 300830 and 300831 may be attempted before 300672, but not after. Students may not enrol in 300831 and 300830 or 300831 and 300672 or 300830 and 300672 in the same teaching session. Students enrolled in the Bachelor of Engineering (Honours), Bachelor of Engineering or Bachelor of Engineering Science may not enrol in any of the units 300830, 300831 or 300672.

Special Requirements - Essential Equipment

Scientific calculator, access to a computer with the appropriate mathematics software.

This level 1 unit develops the quantitative skills that underpin many fields of study in the sciences. The content covered includes basic algebra, functions, graphs, equations, linear and quadratic, introductory probability and descriptive statistics. These mathematical/statistical concepts will be revised and developed using scientific concepts such as molarity and dilution, optical density, population growth, and predator-prey models. In all aspects of this unit, students will be developing and using critical thinking skills to solve mathematical/statistical problems set in a scientific context.

700123.2 Quantitative Thinking (WSTC)

Credit Points 10 **Level** 1

Assumed Knowledge

Basic competence in algebraic manipulation and some familiarity with elementary probability and statistical concepts.

Equivalent Units

200191 - Fundamentals of Mathematics, 300831 - Quantitative Thinking

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students may complete 700123 Quantitative Thinking before 700108 Analysis of Change. Students may not enrol in Quantitative Thinking and Analysis of Change in the same teaching session. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

This Level 1 unit develops the quantitative skills that underpin many fields of study in the sciences. The content covered includes basic algebra, functions, graphs, equations – linear and quadratic, introductory probability and descriptive statistics. These mathematical/statistical concepts will be revised and developed using scientific concepts such as molarity and dilution, optical density, population growth, and predator-prey models. In all aspects of this unit, students will be developing and using critical thinking skills to solve mathematical/statistical problems set in a scientific context.

200486.3 Quantity Surveying 1

Credit Points 10 **Level** 2

Assumed Knowledge

Building construction including residential, light industrial and small commercial.

Equivalent Units

301208 - Building Measurement

In 2019 this unit will be replaced by 301208 - Building Measurement. This unit is designed to develop the techniques required to measure, quantify and prepare bills of quantities for residential construction. It will also help students to develop the basic skills of a Quantity Surveyor.

200487.3 Quantity Surveying 2

Credit Points 10 **Level** 2

Assumed Knowledge

Building construction including residential, light industrial and small commercial as covered in the subjects Building 1, Building 2 and Quantity Surveying 1.

Prerequisite

200486.2 Quantity Surveying 1 OR **301208.1** Building Measurement

This subject is designed to provide students with an advanced understanding of the various roles of a quantity surveyor. Students will develop an ability to apply the skills necessary to deliver both pre-contract and post-contract quantity surveying services.

300923.1 Quantum Physics

Credit Points 10 **Level** 3

Assumed Knowledge

Mathematics 1A, Mathematics 1B, Physics 1 and Physics 2

Prerequisite

300828.1 Physics 1 AND **300829.1** Physics 2

Equivalent Units

300419 - Quantum Properties of Chemical Systems

The unit builds on quantum concepts that have been introduced in earlier units such as Physics 1,2, Nanotechnology and Chemistry. It aims at developing the student's understanding of quantum principles as they apply to hard and soft matter systems, including atoms, molecules and extended arrays such as metal and semiconductors as well as biological tissue

102191.1 Queer Culture

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

Queer culture will introduce students to queer theory and provide opportunities to use these theories in the close study of cultural practice and politics. Queer theory counters the idea that people have stable sexes, genders and sexualities. Instead, queer theory argues that the experience of those that are homosexual, bisexual, transgender, and intersex highlight the frequent mismatches in what are taken for granted to be 'normal' experiences of identity. Queer theory demonstrates the

impossibility of a natural or normal sexuality, but it also demonstrates the problem with the terms 'man' and 'woman', 'male' and 'female', 'normal' and 'abnormal'. In Queer culture students will learn about queer theories and have the opportunity to apply these theories to an in-depth and personally engaging study of queer politics and activism; queer media, film and performance; and queer sex, selfhood, and identity trans/formations.

101650.3 Race in Literature

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit explores a selection of modern literary works that focus on the question of "race." Readings will allow students to learn how notions of race have shifted over time, giving particular attention to how mixed-race people challenge dyadic conceptions of racial difference. Readings may include one or more national literatures, such as American or Australian literature.

300489.2 Radio and Satellite Communication

Credit Points 10 **Level** 4

Assumed Knowledge

Physics and Materials, Mathematics for Engineers 1 and 2, Astrophysics

Prerequisite

300007.2 Communication Systems OR **300010.3** Data Networks

Equivalent Units

14297 - Satellite Communication

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This unit is offered in alternate years. This unit will develop an understanding of the theory and practice of radio and satellite communication techniques and measurements and provide an introduction to space communication systems. It will complement the general communication engineering units, addressing advanced topics important and specific to radio and satellite communications.

102078.1 Reading Ireland in the 1990s: Fiction, Poetry, Drama

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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'Reading Ireland in the 1990s' is a level 3 unit within the English and Creative Writing Majors/Sub-Majors. This unit examines a range of Irish writing across several different genres - fiction, poetry and drama published during the 1990s. It will provide an opportunity for students to read and study in detail a variety of texts that assert new directions in Irish literary culture. Students will be asked to consider the ways in which these texts ask questions of

national and personal self-definition in the face of Ireland's new political developments both north and south of the border, as well as attempt to analyse and understand contemporary Irish consciousness.

400201.3 Readings and Methodology

Credit Points 10 **Level** 5

Assumed Knowledge

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

Unit Enrolment Restrictions

Students must be enrolled in 4529 Bachelor of Nursing (Honours).

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information. Students have to provide their own computer access to vUWS.

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This unit will broaden and deepen students understanding of research methodologies and develop research skills in order to apply these to a specific B Nursing (Honours) research project.

102202.1 Religion and Law in Contemporary Public Discourse

Credit Points 10 **Level** 7

Assumed Knowledge

Undergraduate degree or equivalent.

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Debates over the role of religion as well as religious law in the public sphere have been ongoing themes in recent decades in many countries. Religion and law are two important yet rival sources of normative reasoning of public order in which they are constitutive, regulative and coercive forces. The unit introduces students to various understanding of the interrelations between religion and law in the societal and individual domains of the public sphere; and reflects on the contentious nature of the relationships given sensitive issues such as religious education, equal marriage, abortion, human rights. In the first part of the unit, students study the relationship between law and religion in various faiths such as Judaism, Christianity, Islam and Hinduism. The second part examines how different religious traditions interact and intersect with different legal traditions (common and civil law system) in a range of countries (for example Australia, UK, Israel, Indonesia, India, Iran).

101992.1 Religion and the Emergence of Modern Politics

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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The period from the early 1500s to the mid 1800s saw the transformation of religious culture and personal religiosity across much of Europe and America. The same period saw the emergence of the modern state system, a re-definition of the state-church and secular-religious divides, and the creation of modern political ideals of equal rights under the law, as well as the modern 'secular religion' of socialism. This unit investigates these parallel movements in Western culture, which altered the understandings both of politics and religion, and the relationships between them.

102002.1 Religion and the Origins of Modern Science

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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Between about 1450 and 1700 Europe witnessed a fundamental transformation in the pursuit of natural knowledge which gave birth to what we now call modern science. The aim of this unit is to introduce students to the issues surrounding the study of the Scientific Revolution, particularly those concerning the influence of religion. How was the study of nature pursued before this historical moment? What was the influence of the Protestant Reformation upon the emergence of modern science? Students will also be introduced to the historiographic debates surrounding the validity and usefulness of the term 'Scientific Revolution'.

102557.1 Repertoire and Identity in Performance

Credit Points 10 **Level** 3

Assumed Knowledge

It is assumed that students can perform at level 3 standard (determined either by having successfully completed some pre-requisite units or through an audition process) where they demonstrate musical fluency on chosen instrument/voice/other media.

Prerequisite

101539.3 The Composer-Performer OR **101535.2** Sound and Performance: Expanded Practice OR **102556.1** Expanded Music Performance

Equivalent Units

101094 - Music Performance 6: Repertoire and Identity, 101533 - Music Performance: Repertoire and Identity

Special Requirements - Essential Equipment

Students with portable musical instruments (guitars, woodwind instruments, brass instruments, etc.) are required to bring them to this unit as well as their own music.

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Repertoire and Identity in Performance is the third year unit that completes the Music Performance major and sub-major. It gives students the opportunity to conceptualise, perform and feature in a 20-minute project in a concert setting. It is expected that the preceding five semesters of music performance study will be drawn upon to give a cohesive performance that resonates with each student's particular musical identity. A written task, supported by a series of lectures, will encourage students to consider constructions of identity in their own performances and those of others. Through a series of workshops, students will receive feedback on their work in progress from their lecturer and colleagues, completing a circle of practice and critical engagement.

101005.4 Representing Crime

Credit Points 10 **Level** 3

Equivalent Units

SS233A - Representing Crime.

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit deals with the evolution of the figure of the detective and of the criminal; the development of an aesthetics of crime from the later 18th Century; the dynamic nature of fiction, film and television genres of detection. Literatures of sensation, detective fictions, true crime writing and the non-fiction novel will all be examined to allow an in-depth analysis of the changing ethical and psychological character of the detective, and of his nemesis. The crime story in film, television and in other new media may also be addressed to facilitate an analysis of changing cultural contexts for the crime story.

101917.1 Representing Everyday Life in Literary and Visual Cultures

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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This unit explores how the realm of everyday life has been imagined and represented in a range of literary traditions and visual and media cultures. It examines what we understand by this concept, realist and experimental approaches to its representation, and how everyday life is shaped by various historical, social and cultural factors (e.g. technology, gender, class, war). With a focus on modern and contemporary texts and contexts, students will study primary works in relation to key theories of the everyday. Possible topics include: Victorian realism, Surrealism,

stream of consciousness narration, social documentary photography, social realist cinema, postmodern narrative, blogs.

800166.1 Research Design 1: Theories of Enquiry

Credit Points 10 **Level** 5

Unit Enrolment Restrictions

Students must be enrolled in 8083 Bachelor of Research Studies/Master of Research, 8084 Master of Research (High Cost) or 8085 Master of Research (Low Cost), 8119 Bachelor of Research Studies/ Master of Research (Planning), 3702 Master of Information and Communications Technology (Research), 1870 Master of Chinese Cultural Relations or 3761 Master of Architecture (Urban Transformation).

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This unit introduces students to the principles of research design and examines the process of academic knowledge production. Using theories from the philosophy of science and the sociology of knowledge, combined with regular reflective writing exercises, students will be guided through various aspects of project design, including the development of a research question, the selection of appropriate methodologies, and the preparation of a draft MRes thesis proposal. Upon completion of the unit students will have a firm understanding of the context of academic knowledge production, and will be able to demonstrate competence in designing a research proposal.

800169.1 Research Design 2: Practices of Research

Credit Points 10 **Level** 5

Prerequisite

800166.1 Research Design 1: Theories of Enquiry

Unit Enrolment Restrictions

Students must be enrolled in 8083 Bachelor of Research Studies/Master of Research, 8084 Master of Research (High Cost) or 8085 Master of Research (Low Cost), 8119 Bachelor of Research Studies/ Master of Research (Planning), 3702 Master of Information and Communications Technology (Research), 1870 Master of Chinese Cultural Relations or 3761 Master of Architecture (Urban Transformation).

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This unit builds upon Research Design 1: Theories of Enquiry and will help students develop and refine their MRes thesis proposal. All workshops are interactive, focusing on sections of the thesis proposal. The unit includes workshops on research ethics that will help students articulate the significance and relevance of their work, and will assist those whose projects require formal ethics clearance. Students will submit a final written proposal and deliver an oral Presentation of Proposal (POP). After successful completion of this unit, students will have demonstrated an ability to design and justify a research project.

401214.1 Research for Nursing (Advanced)

Credit Points 10 **Level** 2

Assumed Knowledge

Professional communication skills and well developed academic literacy.

Equivalent Units

401023 Research Principles for Nursing (Advanced)

Unit Enrolment Restrictions

Students must be enrolled in 4693 Bachelor of Nursing (Advanced).

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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This unit introduces students to the major research paradigms, research principles, concepts that inform critical analysis of literature, the basis of evidence based practice and oral presentation skills.

401208.1 Research for Nursing and Midwifery

Credit Points 10 **Level** 2

Assumed Knowledge

Professional communication and the roles and responsibilities of registered nurse or midwife.

Corequisite

Co-requisite for 4691: 401205 Professional Communication in Nursing.

Equivalent Units

400755 Evidence-Based Nursing, 401011 Research Principles for Nursing and Midwifery

Unit Enrolment Restrictions

Students must be enrolled in 4691 Bachelor of Nursing, 4692 Bachelor of Nursing Graduate Entry or 4864 Bachelor of Midwifery.

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

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In this unit nursing and midwifery students will develop a foundational understanding of research concepts that inform analysis of literature and evidence based practice. These skills will broaden the students understanding of the

importance of research that underpins nursing and midwifery practice.

400803.2 Research in Nursing Practice

Credit Points 10 **Level** 5

Assumed Knowledge

A basic knowledge of research methods at undergraduate level.

Incompatible Units

400200 - Applied Nursing Research

Unit Enrolment Restrictions

Students must be enrolled in the Bachelor of Nursing (Honours).

Special Requirements - Essential Equipment

Essential Equipment: Access to an internet enabled device is essential in order to be able to: access course materials; to participate in discussion groups; and to access additional resources provided by the lecturer during the session. See http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_support for further information.

Research is a necessary undertaking toward the continued development of nursing science and practice. The aim of this unit is to both broaden and deepen Bachelor of Nursing (Honours) students' understanding of research methods and to extend their ability to discuss, appraise the work of others and participate in their own research.

800167.1 Research Literacies

Credit Points 10 **Level** 5

Unit Enrolment Restrictions

Students must be enrolled in 8083 Bachelor of Research Studies/Master of Research or 8119 Bachelor of Research Studies/ Master of Research (Planning).

This unit is about knowledge translation. It aims to help students become effective communicators in academic and professional settings. Upon completion of the unit, students will have developed the ability to translate their research knowledge and explain its importance and potential impact across a variety of settings both within and outside the University sector. Training is provided for both speaking with and writing for non-specialist audiences.

400864.3 Research Methods (Quantitative and Qualitative)

Credit Points 10 **Level** 2

Prerequisite

400863.2 Foundations of Research and Evidence-Based Practice

This unit further explores research methods used to acquire knowledge in healthcare. This includes research designs, international standards, key statistics, and interpretation of results. The range of health research methods will be

presented, and studies about treatment effectiveness (clinical trials and systematic reviews), diagnostic effectiveness and qualitative approaches will be explored in detail. Pathways for early-career research are also introduced.

102044.1 Research Methods in Linguistics

Credit Points 10 **Level** 3

Prerequisite

101945.1 Introduction to Linguistics

Unit Enrolment Restrictions

Successful completion of 60 credit points including the prerequisite unit listed above plus 20 credit points from units in the Linguistics major.

In2018 this unit replaced by 102625 - Discovering language: Everything you've ever wanted to know but never asked. This unit aims to enable students to acquire the knowledge and skills to design a research project in the field of Languages and Linguistics (i.e., Phonetics, Phonology, Syntax, Semantics and Pragmatics, Sociolinguistics, First or Second Language Acquisition, Bilingualism, Interpreting and Translation, Discourse Analysis). The unit fosters the ability to understand and critically approach previous literature in order to formulate research questions, design a research study, propose appropriate data analysis tools, and generate hypotheses about the results of the study. It includes theoretical and practical research work into Languages and Linguistics.

102375.1 Research Methods in the Creative Arts

Credit Points 20 **Level** 7

Assumed Knowledge

Successful completion of undergraduate degree and formal acceptance into the Master of Arts (Creative Arts)

This unit investigates conceptual and theoretical models used in Creative Arts Research. It introduces students to a variety of important methodologies, including empiricism, experimentation, practice-based research, performativity-as-method, and narrative inquiry. It will also focus on writing as a creative praxis that has an important relationship to all the creative arts. Methodologies will be explored through the analysis of various theoretical and conceptual models that are applied in and produced through creative work. The unit will include a variety of strategies for analysing and documenting creative work, including observation, participation, reflection and representation. It will also examine the divisions between theory and practice, asking whether theory is in itself a practice that empiricism describes. It will look at the conditions under which creative arts research is produced, exploring its meanings, effects and affects.

301069.2 Research Stories

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Students must have a minimum GPA of 5 and be enrolled in The Academy at Western Sydney University; i.e. students enrolled in the Bachelor of Applied Leadership and Critical Thinking or other advanced courses at the discretion of the Academy or the Dean.

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This unit is designed for high-achieving students who may be enrolled in Advanced degrees, or the Bachelor of Applied Leadership and Critical Thinking. Narrative inquiry and story-telling is growing in popularity across disciplines as a way of collecting, analysing and presenting complex data. Students will be challenged by the complexity of narrative sense-making and the relationship between personal and cultural narratives (as well as counter-narratives). By following the research journey rather than only the 'outcomes' we can learn from mistakes in the research process and find solutions to real world problems. This unit prepares students with the interdisciplinary research skills needed for the careers of tomorrow.

101962.1 Researching Convergent Media

Credit Points 10 **Level** 7

Equivalent Units

101793 - Methods and Case Studies in Convergent Media

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Standard vUWS site

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The contemporary creative industries landscape is characterised by the breakdown of traditional media silos and the transformation of media production and consumption practices. Media, marketing and creative professionals are now required to understand and connect with their audiences across multiple media platforms and to undertake diverse research deploying many new methodologies. The aim of this unit is to provide students with an historical, geopolitical and theoretical introduction to research in the creative industries. The case studies and topics covered vary from semester to semester and can include data visualisation, digital ethnography, digital games, community media, digital arts, activist networks, social media and cross platform projects. Using current media theory, design theories, and research methodologies, students will select, analyse and contextualise case studies.

101906.2 Researching Culture

Credit Points 10 **Level** 2

Prerequisite

100897.2 Everyday Life OR **101979.1** Understanding Visual Culture

Unit Enrolment Restrictions

Successful completion of 40 credit points including one of the pre-requisite units shown above.

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This unit introduces students to the diverse field of cultural research. It outlines and explains the key research methods and methodologies used by cultural researchers. Tutorials and assessment tasks involve 'hands-on' activities designed to familiarise students with the research process and key research practices, including the literature review; research design; observation based research; visual research; memory work; interviews and focus groups; mixed methods; qualitative analysis; and ethical issues. Through completion of this unit, students will gain vocational skills in areas of professional employment like cultural and social research, policy analysis and cultural advocacy.

800195.1 Researching our Changing Environment

Credit Points 10 **Level** 5

Unit Enrolment Restrictions

Students must be enrolled in course 8083 Bachelor of Research Studies/Master of Research

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This unit focuses on learning to critically evaluate current research in topics under study at the Hawkesbury Institute for the Environment and how advanced scholarship in your field of study is conducted. The Hawkesbury Institute for the Environment spans a broad set of fields from soil microbial genomics and microbial ecology to the biogeochemistry, ecology and physiology of plants and microbes, animal ecology and evolution, to ecosystems, landscapes and Australia-wide processes. Teaching sessions are designed around a thematic cross-section of research within HIE, representing many of these areas. The unit also involves enhancing skill in evaluating appropriate research methodologies for asking questions and testing hypotheses, including an introduction to some of the large-scale research facilities within HIE that students may be involved with.

800216.1 Researching Post-Capitalist Possibilities (PhD Summer School)

Credit Points 10 **Level** 7

Assumed Knowledge

Students should have a working understanding of their disciplinary field at graduate level and familiarity with different social theoretical and methodological traditions in order to get maximum course benefit.

Unit Enrolment Restrictions

Students must be enrolled in a Masters by research or PhD and must obtain permission from the Unit Coordinator to enrol in the unit.

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Researching Post-Capitalist Possibilities offers HDR students the opportunity to explore how the humanities and social sciences can play a role in making other worlds

possible. It develops the thinking capacities we need as scholars to shape the world and reviews the ethical responsibilities that come with this work. It offers an opportunity to work with scholar members of the Community Economies Collective within the Institute for Culture and Society (ICS) who have been thinking outside or beyond capitalist relations since the publication of J.K. Gibson-Graham's *The End of Capitalism (As We Knew It)* in 1996.

300810.1 Resource Sustainability

Credit Points 10 **Level** 1

Assumed Knowledge

Basic biological science and an understanding of referencing

Equivalent Units

300663 - Resource Sustainability, 700099 - Resource Sustainability (WSTC)

Special Requirements - Essential Equipment

Enclosed footwear

Resource sustainability deals with the local, national, and global sustainability issues concerning human interactions with the environment. The unit uses current resource issues and scientific concepts to provide the practical and theoretical information needed for students to think critically about environmental issues and to contribute to the sustainable management of natural and built environments. Students will also learn how science and society interact in the management of resources. Using the concept of ecologically sustainable development as a foundation, students will use critical thinking skills to research a resource issue of their choice at the local, national and/or international level. Students will communicate their research using new media exploring the issue and make recommendations for improving sustainability.

700099.2 Resource Sustainability (WSTC)

Credit Points 10 **Level** 1

Assumed Knowledge

Basic biological science and an understanding of referencing

Equivalent Units

300663 - Resource Sustainability, 300810 - Resource Sustainability

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

Resource sustainability deals with the local, national, and global sustainability issues concerning human interactions with the environment. The unit uses current resource

issues and scientific concepts to provide the practical and theoretical information needed for students to think critically about environmental issues and to contribute to the sustainable management of natural and built environments. Students will also learn how science and society interact in the management of resources. Using the concept of ecologically sustainable development as a foundation, students will use critical thinking skills to research a resource issue of their choice at the local, national and/or international level. Students will communicate their research using new media exploring the issue and make recommendations for improving sustainability.

800196.1 Rethinking Culture and Society

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

This unit is considered mandatory for students supervised within the Institute for Culture and Society

This unit explores key ideas in social and cultural analysis – such as culture, society, experience, power, nature, local/global, etc – as a way of helping students think through their own research projects. It draws on an approach to cultural and social research, developed at the Institute for Culture and Society, which addresses the contradictions of a world that is increasingly globalised, culturally diverse and technologically mediated. A key aspect of this approach is to revisit the central concepts of social and cultural theory, linked to an overview of existing approaches, developing skills of critical analysis and reflecting on the challenges of interdisciplinarity, methodological pluralism, cultural complexity and engaged research.

101759.2 Rethinking Research with Indigenous Australians: Independent Study Project (Day Mode)

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

This unit will provide students with an exciting opportunity to undertake an Independent Study Project on an Indigenous topic. Students will gain greater knowledge of Indigenous people and develop effective communication skills as well as a level of cultural competency. The Independent Study Project will expose students to the complexities of the cultural inter-relationships and the politics of undertaking research with Indigenous people. It will also provide students with skills and ideas for future research projects that will add to Indigenous knowledge and provide a sound foundation for ethical research.

101753.3 Revaluing Indigenous Economics (Day Mode)

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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Revaluing Indigenous Economics will examine Australia's Indigenous economy and its dynamics. It will challenge students to reflect on the significant contribution Indigenous Australians have made and continue to make to our growing economy. It will also challenge students to rethink the politics of the welfare economy as it relates to Indigenous Australians. Students will be introduced to a number of enterprise development case studies for example, The Arts, Mining and Land Development, Tourism and the Environment, Sports and Small Business.

200739.2 Reward and Performance Management

Credit Points 10 **Level** 3

Prerequisite

[200300.2](#) Managing People at Work

Incompatible Units

200611 - Management of Employee Performance, 200612 - Remuneration Theory and Practice

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'Reward and Performance Management' introduces students to critical perspectives in reward management. Through case studies students consider the wider context in which reward strategies are devised and the strategic decisions that arise if reward is to meet regulatory requirements, organisation objectives and the expectations of the workforce. Students examine the component parts of contemporary reward and critically assess the relationship between performance and reward. Through engagement with different types of performance management systems, students identify and assess contrasting approaches to performance management.

401240.1 Risk Mitigation and Ethics for Australian Health Professionals

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Students must have successfully completed 160 credit points of an undergraduate degree in nursing, midwifery, medicine or a health related degree to be eligible to enrol in this elective.

Special Requirements - Essential Equipment

Access to an internet enabled device is essential in order to be able to access course materials; to participate in discussions groups; and to access additional resources provided by the lecturer during the session. See: http://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/uwsonline_student_supportfor further information.

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This unit will provide a comprehensive understanding of the ethical standards required by health care professionals when providing patient care with a focus on risk minimisation for patients. Recently litigated cases will be used as case studies to explore ethical dilemmas that health professionals can expect to arise over the course of their professional careers. Knowledge gained will greatly

assist health professionals to deliver safe and ethical health care to their patients. Only health professionals regulated in Australia whose professional bodies have designated codes of conduct, codes of professional practice and / or codes of ethics will be utilised in this unit.

301205.1 Robotic Programming

Credit Points 10 **Level** 3

Assumed Knowledge

Basic knowledge of Linux, C++/Python and Object Oriented Programming (OOP).

Prerequisite

300147 Object Oriented Programming and 300167 Systems Programming 1 OR 300147 Object Oriented Programming and 300698 Operating Systems Programming OR 300043 Mobile Robotics

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Robot Operating System (ROS) is a software integration system that is now widely used for robotics software deployment. The philosophy behind ROS is to modularise software that can work for other robots through small changes in the code. This unit focuses on the main concepts of software development under ROS by looking at the file hierarchical systems (e.g. Packages, Stacks, Messages, Services and others), module communication types through Nodes, Topics, Services, Messages, Bags, Master and how they integrate to operate robot sensors and actuators. This unit also looks at actual AI software examples using C++/Python and Answer Set Programming (ASP).

300056.4 Robotics

Credit Points 10 **Level** 4

Prerequisite

[300480.2](#) Dynamics of Mechanical Systems

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The aim of this unit is to develop an understanding of the basic concepts involved in Robotics. The kinematics, dynamics, control and sensing aspects in robotics will be introduced. In addition, the concepts of artificial intelligence (AI) and their applications in robotics will also be introduced. There will be considerable use of MATLAB in the unit.

301212.1 Science of the Anthropocene

Credit Points 10 **Level** 3

Assumed Knowledge

A basic understanding of scientific enquiry including the periodic table, equilibria, and pH. Introductory statistics including mean, standard deviation, and distributions.

Equivalent Units

300857 Environmental Geochemistry 300614 Environmental Geochemistry

Unit Enrolment Restrictions

Must have completed 20 credit points at level 2

Special Requirements - Essential Equipment

Safety glasses and laboratory coat, laboratory book, enclosed footwear

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The unit explores how the earth has been irreversibly altered through human activities. Topics include the composition of the ocean, land, and atmosphere, and the impacts humans have had on these systems. The unit looks at the detection and control of modern pollutants with a focus on field sampling and modelling of selected environmental systems. These topics will be brought to life in a two-day field trip to sites of significant anthropogenic impact.

300924.1 Science Research Project

Credit Points 10 **Level** 3

Assumed Knowledge

This unit is aimed at undergraduates in their final year of undergraduate study who have a good grounding in the Level 2 units for the discipline area of their individual project.

Equivalent Units

300788 - Science Research Project

Incompatible Units

300645 - Science Research Project 2, 300299 - Chemistry Project 3, J3659 - Biological Science Project 3, 14117 - Chemistry Project, 300542 - Biomolecular Science Project

Unit Enrolment Restrictions

Students must have completed at least two Level 3 units and have a GPA of 5.5 or above. This is an undergraduate project unit; the restrictions above are purposely designed to limit enrolments to a small number of high-performing third year students. Handling large enrolments is not possible in this style of unit.

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Science Research Project is a final-year capstone unit that gives students an introduction to scientific research, while extending their knowledge and practical skills. Each student undertakes a research project supervised by an academic staff member. With the assistance of their supervisor, students will research the literature and define the problem to be studied, carry out a risk assessment, develop the appropriate experimental methods, carry out research on their project, and present a final written report and a poster or oral presentation. This unit offers a challenge to final-year students, and allows innovation by the student with respect to both method and research direction.

301037.2 Scientific Informatics

Credit Points 10 **Level** 7

Assumed Knowledge

Basic programming knowledge.

Special Requirements - Essential Equipment

All required equipment will be available through School of Computing, Engineering & Mathematics computer labs

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This unit aims to provide training for Research Masters in the computational techniques that are integral to much of modern scientific research. The unit includes a number of options of which 6 are to be selected. While these options are expected to be relevant to the student's research field, all of them are designed to provide transferable skills in this topic, and to use a common set of tools, building computing skills for the student's future.

300811.1 Scientific Literacy

Credit Points 10 **Level** 1

Assumed Knowledge

Basic literacy and numeracy.

Equivalent Units

300497 - Professional Skills for Science, 700124 - Scientific Literacy (WSTC)

.....

This unit is designed to provide students with scientific literacy and generic skills required to successfully undertake science-related undergraduate studies. Students learn, develop and utilise academic and interpersonal methodologies within the context of applied scientific principles in society and take responsibility for their own learning. Students are introduced to the contestable and uncertain nature of science and the scientific method. Activities encourage development of self-confidence, self-efficacy, creative thinking through problem solving, group process, communication and peer support. Academic skills include scientific reading and report writing, researching scientific information and library skills, oral presentation, taking tests and exams, effective personal and group based learning strategies, peer assessment, and online learning.

700124.2 Scientific Literacy (WSTC)

Credit Points 10 **Level** 1

Assumed Knowledge

Basic literacy & numeracy

Equivalent Units

300497 - Professional Skills for Science, 700042 - Professional Skills for Science (UWSC), 300811 - Scientific Literacy

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

.....

This unit is designed to provide students with scientific literacy and generic skills required to successfully undertake science-related undergraduate studies. Students learn, develop and utilise academic and interpersonal methodologies within the context of applied scientific principles in society and take responsibility for their own learning. Students are introduced to the contestable and

uncertain nature of science and the scientific method. Activities encourage development of self-confidence, self-efficacy, creative thinking through problem solving, group process, communication and peer support. Academic skills include scientific reading and report writing, researching scientific information and library skills, oral presentation, taking tests and exams, effective personal and group based learning strategies, peer assessment, and online learning.

700264.1 Scientific Methods for Construction Management (WSTC Prep)

Credit Points 10 **Level** Z

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University The College.

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This unit is designed to assist students to become competent in the fields of mathematics and basic physical science. It reinforces the mathematical skills in the areas of basic arithmetic, algebra, geometry and trigonometry. The unit introduces the study of forces, work and energy and selected applications of these concepts. Emphasis is placed on developing the key competencies of scientific methods to provide the necessary introduction for Building Design and Construction Technology.

101451.2 Second Language Acquisition

Credit Points 10 **Level** 3

Equivalent Units

A1081 - Second Language Acquisition

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This unit is designed for students who are interested in understanding how a second language is learned. It examines learning in both natural or classroom contexts as well as language development in child and adult learners. Students are introduced to current theories of Second Language Acquisition, as well as current research and its applications to the classroom or the translation process. Students will conduct a small research project to become familiar with the process of learning a second language and some basic research notions and techniques.

200921.1 Security Analysis and Business Valuation

Credit Points 10 **Level** 3

Assumed Knowledge

Knowledge acquired in the corporate financial management and fundamentals of accounting.

Prerequisite

[200488.3](#) Corporate Financial Management

.....

This unit analyses companies from a fundamental perspective in order to derive an intrinsic value for securities. The focus is on the attempt by active investors to identify mispriced securities using publicly available information, company reports and financial market information. The analytical techniques of financial

statement analysis (e.g. fundamental analysis, free cash flow analysis and pro-forma analysis) and the issue of the "reliability" and "quality" of publicly available information are discussed and explored. Those contemplating careers in investment banking, financial consulting, trust funds, superannuation funds, hedge funds, and brokerage firms will find this applied unit both useful and interesting.

51212.3 Security Analysis and Portfolio Theory

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course.

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This unit examines the valuation of assets, firms and securities. The focus is on the attempt by active investors to identify mispriced securities through projection of a firm's future cash flows based on pro forma financial statements, translating those projections to values and dividing the firm value among the different security holders of the firm. Students develop their understanding of accounting, finance and economic concepts in this applied unit by building models of a firm and conducting analyses of the equity valuation.

200980.1 Security of Ideas

Credit Points 10 **Level** 7

Prerequisite

Students enrolled in 2784/2810 Master of Laws (International Governance) must have successfully completed the prerequisite unit 200901 Legal Philosophy and Methodology.

Corequisite

Students enrolled in 3748 Master of Information Governance must be enrolled in or have successfully completed the corequisite unit 200432 Commercial Law.

Unit Enrolment Restrictions

Students must be enrolled in 2784 or 2810 Master of Laws (International Governance), 3748 Master of Information Governance, Bachelor of Research Studies or Master of Research.

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This unit provides an introduction and overview of the legal principles of intellectual property law, and traces the development of this law in Australia. The modules consider the different forms of intellectual property including copyright (including moral rights and performers protection), designs, patents, plant breeders rights, trade mark law, passing-off and related actions, domain name law, confidentiality, circuit layouts, the historical development of intellectual property, and the international intellectual property framework (including World Intellectual Property Organization (WIPO) and World Trade Organization (WTO)).

101330.3 Self and Society

Credit Points 10 **Level** 3

Equivalent Units

400675 - Sociological Theory

Unit Enrolment Restrictions

Successful completion of 80 credit points.

.....

This core theory unit for sociology majors introduces students to traditional and contemporary debates in social thought. The unit reviews sociological thought in the context of changing conceptions of the relation between the individual and society and the formation of the self. A number of theorists and theoretical areas are addressed, employing as the focal point of study or analysis what has been called middle range theory. This enables students to better grasp the relation between theory and application and to uncover competing theorists and ideas that may complement or be opposed to the positions argued in the unit.

200898.1 Seminal Papers in Business

Credit Points 10 **Level** 5

Unit Enrolment Restrictions

Students must be enrolled in course 8083 Bachelor of Research Studies/Master of Research.

.....

The aim of this unit is to develop skills in applying rigorous analysis and critical assessment to research-debates in business disciplines through an examination of seminal literature in particular business fields which often embrace conflicting theoretical approaches. This will provide candidates with the advanced skills needed to critically analyse debates in a business discipline, while also enabling them to gain more familiarity with theories, issues, and problems in a particular research area. Seminal business papers will be analysed through a balanced and constructive critique of their strengths and weaknesses, providing suggestions for how the work might be extended or improved. From this unit, students will be able to apply the rigorous analytical skills to their own work.

200991.1 Service Industry Analytics

Credit Points 10 **Level** 3

Assumed Knowledge

Basic knowledge of the service and experience economies is assumed.

Equivalent Units

200707 - Service Industry Studies 200581 - Sport Management Research Methods 200559 - Hospitality Business Research Methods 200681 - Services Research Methods

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Service Industry Analytics is designed to provide a working knowledge of how to analyse and report information required in planning and operating a services business. It explores the methods, uses and limitations of contemporary

research in the sport and hospitality industries. Students will gain experience with the planning and implementation of research and assessment of service research problems, utilising the collection and analysis of both quantitative and qualitative data.

101964.1 Sexual/Textual Politics in Victorian Women's Writing

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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This unit will set Victorian women's writing in its intellectual and cultural context, with particular emphasis on the changing roles of women in the long nineteenth century (1796-1914). Using a broad range of short fiction this unit will investigate topics such as gender and sexuality, the New Woman figure, home and empire, and women and scientific discourse. It will also explore texts from across Australia, Britain, North America and Ireland and ask students to consider how concepts of feminism have changed over time, as well as how women's nineteenth-century writing is still relevant to contemporary society and intellectual thinking.

101791.2 Short Fiction in the Americas

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit surveys short fiction written in the Americas in English, French, Spanish and Portuguese during the twentieth century. It examines the history of short fictional genres, theories of their functioning, and the ways in which they register and transmit the various national and regional cultures of the Americas. The unit allows students majoring in Spanish to undertake language-specific assessment tasks (reading original texts in Spanish and writing their essay in Spanish) while other students read the texts and complete their assessment tasks in English.

300057.4 Signals and Systems

Credit Points 10 **Level** 2

Prerequisite

200238.2 Mathematics for Engineers 2 AND **300021.2** Electrical Fundamentals

Equivalent Units

700241 - Signals and Systems (WSTC AssocD)

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This unit aims to develop students' understanding of continuous-time and discrete-time concepts and methods. It covers various signals and their analysis, as encountered in the fields of electrical, computer and telecommunication engineering.

700241.1 Signals and Systems (WSTC AssocD)

Credit Points 10 **Level** 2

Prerequisite

700102.2 Mathematics for Engineers 2 (WSTC AssocD)
AND **700104.2** Electrical Fundamentals (WSTC AssocD)

Equivalent Units

300057 - Signals and Systems

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College in 7022 Associate Degree in Engineering

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This unit aims to develop students understanding of continuous-time and discrete-time concepts and methods. It covers various signals and their analysis, as encountered in the fields of electrical, computer and telecommunication engineering.

301167.1 Simulation Fundamentals

Credit Points 10 **Level** 2

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In the last couple of decades computer modelling and simulation has evolved into an important discipline used in nearly every aspect of life from computer games to banking. What was once a tool for training pilots is now a capability to better understand human behaviour, enterprise systems, disease proliferation, and much more. This is an introductory, problem-based unit, where students will learn by doing. Students will acquire ability to use different simulation methodologies and tools such as InsightMaker and AnyLogic to build new insights into the world around you and learn how to share these insights effectively with others.

300996.1 Smart Grids and Distributed Generation

Credit Points 10 **Level** 4

Prerequisite

300771.1 Power Systems

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This unit is designed to model, analyse and control of newly developing areas of distributed generation and smart grids. The unit will cover modelling, control, simulation and protection of such systems. The unit will cover the impacts of renewable sources and power electronics on the operation of smart grids and micro-grids. The unit will also cover environmental and economic impacts of such systems.

63178.2 Social and Political Developments in Contemporary China

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit is concerned with developments in China since the establishment of the People's Republic in 1949. It will focus on the post-1976 period, which saw the adoption and implementation of an "open-door" policy and the launch of the "Four Modernisations". Due attention, however, will also be paid to the history and politics of the 1950s and 1960s as backgrounds. The unit will be issue-oriented, exploring a whole range of social and political issues that will have a bearing on China's future as a potential world power in the twenty-first century.

300961.3 Social Computing

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 160 credit points.

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Rapid growth of computational devices connected to the internet such as mobile phones, tablets, personal computers have made us into a digitally connected society. This has enabled us to develop a new computing paradigm: Social Computing to enhance ways we can fulfil a range of primary and secondary human needs. Already many new businesses have evolved making use of these possibilities surpassing the number of users in corresponding conventional businesses such as retail, transportation and hotel chains. In this unit you will learn the fundamental concepts of Social Computing, how Social Computing is evolving, explore interaction models of social networks, analyse a few reported cases that relate to social computing in detail to understand the impact on society and businesses, and explore ways to enhance a range of livelihood activities and future possibilities. This unit will also cover underpinning technologies related to social computing such as Web 2.0, knowledge management and related security and privacy issues.

102152.1 Social Ecology

Credit Points 10 **Level** 7

Equivalent Units

101654 - Researching Social Ecology

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This unit focuses on learning in the context of social-ecological understanding. It asserts that ecological sustainability is a consequence of the understanding and enactment of social-ecological relationships. In this regard 'social ecology' describes a field of understanding while 'sustainability' describes praxis in a social-ecological context. Both experience and the understanding of experience – learning- are subject matter. This study is undertaken through reference to ecological systems of understandings in the context of challenges to that understanding. It is grounded in reference to learning, change, creativity, culture, politics and the physical environment. The unit introduces key theorists and invites students to examine their personal relationship to social-ecological learning.

102194.2 Social Research in the Digital World

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit provides a critical introduction to the opportunities and challenges of digital social research as well as the theoretical, methodological, and ethical implications of carrying out research in and on the digital. The social web provides researchers both with a tool and an environment to explore the intricacies of everyday life. In this unit, students will be immersed in online environments to further understand the theoretical, methodological and ethical issues of social research in the digital world. Through such activities, students participate as active digital researchers in online social science spaces to result in a professional online web presence and an in depth understanding of current and future research trends in digital social research.

300958.2 Social Web Analytics

Credit Points 10 **Level** 3

Assumed Knowledge

Students are expected to be familiar with fundamental computer programming concepts.

Unit Enrolment Restrictions

Pre-requisite Unit: 300700 Statistical Decision Making or 200263 Biometry or 200032 Statistics for Business for students not enrolled in 3734 Bachelor of Data Science. Co-requisite Unit: 301108 Thinking About Data for students enrolled in 3734 Bachelor of Data Science.

Special Requirements - Essential Equipment

Internet access

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The Social Web provides everyone with a voice, information from Facebook, Twitter and Google+ should allow us to identify trends and relationships in society. Whilst this has interest on a personal level, the killer-apps will be in analyzing such data for business; tracking the buzz around a new product, understanding the links between customers etc. This unit will introduce its students to the Social Web data that is available, and blend computational, mathematical and statistical concepts to allow extraction and analysis of such data.

101450.2 Sociolinguistics

Credit Points 10 **Level** 3

Equivalent Units

A1080 - Sociolinguistics

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This unit is designed to develop students' interest in language and society and give them an understanding and appreciation of variation in language (accents, dialects) and language change, language planning, as well as the interdependent relationship between language learning, communicative competence and cultural practices, both in

the Australian context and also in a more global context. It also aims to show students how this unit fits in with other language and linguistics-related disciplines, e.g. Linguistics, Bilingualism and Biculturalism, Second Language Acquisition.

101359.5 Sociology of Religion

Credit Points 10 **Level** 3

Equivalent Units

Unit B3967 - Sociology of Religion

Unit Enrolment Restrictions

Successful completion of 40 credit points of study or 101336 Introduction to Sociology or 101551 Understanding Society or 100960 Contemporary Society.

.....

In this unit some of the main sociological approaches to the study of religion will be considered. The unit will be orientated particularly to the tension between religion and social theory in the evolution of sociological thought. It addresses the impact of religion and religious bodies on Australian society and politics. The unit will focus on the relation of theory and practice, on the research of contemporary religious practice, and on the contemporary relevance of major theorists in the sociology of religion. It will address issues such as Buddhism, Fundamentalism(s), gender in religion, globalisation, Islam, modernity/post modernity, neo-paganism, networks in spiritualities, New Age, popular culture, and new religious movements.

300985.2 Soil Mechanics

Credit Points 10 **Level** 2

Prerequisite

200237.4 Mathematics for Engineers 1

Equivalent Units

300731 - Soil Engineering, 700245 - Soil Mechanics (WSTC AssocD)

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This is an introductory unit covering the use of soil, and the water in it, as an engineering material. It will provide students with a basic understanding of the physical and mechanical properties of soils, simple soil testing methods to characterise soil strength and deformation behaviour, and how to apply basic techniques to assess the hydro-mechanical response of soils subjected to loading.

700245.1 Soil Mechanics (WSTC AssocD)

Credit Points 10 **Level** 2

Prerequisite

700101.1 Mathematics for Engineers 1 (UWSC Assoc Deg)

Equivalent Units

300731 - Soil Engineering; 300985 - Soil Mechanics

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College in 7022 Associate Degree in Engineering

This unit is an introductory unit covering the use of soil, and the water in it, as an engineering material. It will provide students with a basic understanding of the physical and mechanical properties of soils, simple soil testing methods to characterise soil strength and deformation behaviour and how to apply basic techniques to assess the hydro-mechanical response of soils subjected to loading.

300823.1 Soils

Credit Points 10 **Level** 1

Equivalent Units

300625 - Noise Assessment, 300362 - Environment and Health

Special Requirements - Essential Equipment

Lab Coat, covered foot wear, safety goggles

.....

This unit provides students with a basic understanding of soil formation and erosion processes, soil physical, chemical and biological properties, and the diversity and classification of soils in the Australian landscape. These basic principles are explored in relation to the sustainable management of soils for horticultural and agricultural production and for environmental management, other land uses and in relation to forensic investigation and studies. The practical sessions are designed to reinforce the lecture material and include field description and analysis of soil profiles and properties, soil sampling principles and practice, laboratory measurement of soil physical and chemical properties essential/important for plant growth, soil biology and human and animal remains.

102565.1 Songwriting and Music Theory

Credit Points 10 **Level** 1

Assumed Knowledge

Students must have completed the prerequisite unit, or demonstrate an understanding of key signatures, intervals, triad chord structures, meter and rhythm, through a music theory screening test to be administered by the Unit Co-ordinator.

Prerequisite

101520.2 Basic Composition, Craft and Theory OR
102564.1 Music Theory Fundamentals

Equivalent Units

101087 - Composition, Craft and Theory 2, 33408 - Music, Craft and Theory 2, 101522 - Composition, Craft and Theory

Special Requirements - Essential Equipment

The computer programs Auralia (aural training) and Musition (music theory training) will be used to do the online Aural and Theory quizzes, and these will be downloaded by students or accessed on the computers in the music area. Students will also sit multiple choice theory quizzes on vUWS.

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This unit studies harmony and musical techniques used a variety of styles, and applies these in the development of songwriting skills. Course work includes analysis and composition in set styles, and the freer exploration of

techniques in creative songwriting. Keyboard and aural classes will include practical experience in areas relating to the lectures.

102295.1 Space, Place and the Field

Credit Points 10 **Level** 7

Assumed Knowledge

Undergraduate degree in the Social Sciences or equivalent.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit explores the relevance and application of the 'spatial turn' across social sciences and humanities disciplines. It examines various ways of thinking spatially, theorizing processes that shape urban space, and researching in place. Through concrete engagements with Sydney as a living laboratory it explores how the spatial turn adds to and counters dominant ways of thinking that privilege temporality or deep structure. Space, Place and the Field is analysed at varying scales, including from bodies to species, streets to cities, interpersonal to macro politics, drawing on the wealth of social, cultural, economic and environmental studies of Sydney.

301173.1 Special Effects Programming

Credit Points 10 **Level** 3

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This unit will focus on develop programming code to write shaders to create special effects, such as fog, shadows, fire, water, clouds, lightning, motion blur and reflections. These type of shaders are often seen in games and movies. Students will also learn about generic programming algorithms involved in building special effects.

200990.1 Special Event Management

Credit Points 10 **Level** 3

Assumed Knowledge

This is an advanced unit which assumes intermediate knowledge of sport/hospitality management.

Equivalent Units

200742 - Sport and Hospitality Event Management

Incompatible Units

200579 - Sport Event and Facility Management 200682 - Convention and Special Event Management

.....

Special Event Management is designed to introduce students to event management in order to develop their skills and knowledge relating to the organisation of various event forms. The unit provides students the opportunity to practically apply management strategies, leadership theories, communication skills, and administration skills to facilitate the design, marketing, communication, innovation and planning of their own event. Careers in the industry can be found across diverse fields in the public and private sectors including hotels, event management companies, exhibition and sports venues, and in community organisations such as clubs, schools and charities.

100201.3 Special Study in Languages and Linguistics

Credit Points 10 **Level** 3

Assumed Knowledge

Level 3 Languages and Linguistics units or equivalent.

Unit Enrolment Restrictions

Permission from the Unit Coordinator or Academic Course Advisor is required. A Rule Waiver is required to enrol in this unit.

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This Level 3 Languages and Linguistics unit is, primarily, a self-study unit designed to cater for a special area of interest in languages and linguistics not otherwise covered in the units on offer in the languages program or in the BA (Interpreting and Translation) and/or where the student may otherwise find it difficult to complete his or her program of study. Once the topic chosen by the student is approved by the Unit Coordinator a supervisor is nominated and an individually-tailored learning contract, including appropriate language-specific and/or linguistics readings and tasks, is drawn up in collaboration with the supervisor and is submitted to the Unit Coordinator for approval. This approval process should happen, ideally, at least one week prior to the beginning of the teaching semester.

301089.1 Special Technical Project

Credit Points 10 **Level** 3

Assumed Knowledge

Students are expected to have been involved in the project in their 2nd year of study on a voluntary basis.

Unit Enrolment Restrictions

Students need to seek approval from the Unit Coordinator to enrol in this unit. Students must have completed 140 credit points or more prior to enrolment and must be enrolled in one of the following courses to enrol in this unit: 3689 Bachelor of Engineering; 3740 Bachelor of Engineering (Honours); 3690 Bachelor of Engineering Advanced (Honours); 3691 Bachelor of Engineering Science; 3727 Bachelor of Building Design Management; 2607 Bachelor of Construction Management; 3692 Bachelor of Construction Technology; 3729 Bachelor of Design and Technology; 3730 Bachelor of Industrial Design; 3731 Bachelor of Industrial Design (Honours).

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This is an elective unit offered to students who are engaged in a School approved project. The unit can be taken during the third year of Engineering, Construction Management and Industrial Design courses. This unit consolidates and deepens a student's knowledge and capabilities developed through previous years of study. Students will develop complex solutions by collaborating with various discipline specialists. This unit develops management, reflective and leadership skills including the ability to work with team members from other fields of study through practical application.

102379.1 Special Topics in Philosophy

Credit Points 20 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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The Special Topics in Philosophy unit engages with current debates and developments in philosophy. These contemporary debates will be contextualized within the historical and conceptual framework of the continental tradition of philosophical inquiry. Engagement with contemporary topics in philosophy and the most recent developments in the field will enable students to find what is innovative and original in their own thought and field of research.

301002.1 Specialised Software Applications

Credit Points 10 **Level** 7

Equivalent Units

300513 - Engineering Software Applications

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course. Please note: Students enrolled in 3693 Master of Engineering MUST select the campus offering, NOT the online mode.

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This unit offers several streams of practical applications in engineering and industrial design software. Students get to choose a software application stream depending on their key program. Lectures and assignments are delivered online and are enhanced by face to face contact with stream coordinators. Emphasis is placed on teaching students practical software applications skills relevant to industry needs.

401099.2 Specialities in Traditional Chinese Medicine 1

Credit Points 10 **Level** 4

Prerequisite

400352.2 Traditional Chinese Medicine 3 AND **400873.1** Acupuncture Techniques AND **400878.2** Chinese Medicinal Formulas

Incompatible Units

400919 - Specialities in Traditional Chinese Medicine Practice 1 (PG); 400358 - Specialities in Traditional Chinese Medicine 1

Unit Enrolment Restrictions

Students must be enrolled in 4710 - Bachelor of Traditional Chinese Medicine

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This unit provides learning experiences that enable the health professional to analyse, diagnose and treat common gynaecological diseases and musculoskeletal conditions using a Traditional Chinese Medicine (TCM) approach with acupuncture and Chinese herbal medicine. Students will develop a good understanding of the causes and

pathophysiological mechanisms of common gynaecological diseases and musculoskeletal conditions.

401103.1 Specialities in Traditional Chinese Medicine 2

Credit Points 10 **Level** 4

Incompatible Units

400923 - Specialities in Traditional Chinese Medicine 2 (PG); 400364 - Specialities in Traditional Chinese Medicine 2

Unit Enrolment Restrictions

Students must be enrolled in course 4710 - Bachelor of Traditional Chinese Medicine

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The specialties of paediatrics, dermatology, ear, nose, throat (ENT) and eye diseases, are important divisions of Traditional Chinese Medicine (TCM) activity. This unit enables students to develop an understanding of the aetiology and pathophysiology of common paediatric, dermatological, ENT and eye disorders, and to analyse, diagnose and treat these conditions using acupuncture and Chinese herbal medicine.

401304.1 Speech and Hearing Across the Lifespan

Credit Points 10 **Level** 2

Prerequisite

401300.1 Introduction to Speech Pathology Practice

Unit Enrolment Restrictions

Students must be enrolled in the 4763 Bachelor of Speech Pathology or 4764 Bachelor of Speech Pathology (Honours).

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The unit discusses communication disorders in older children and adults and their assessment and treatment. The unit focuses on hearing impairment and its implications for communication, audiological assessment and diagnosis and treatment methods for hearing loss. The unit also introduces cultural and linguistic diversity and its impact on communication and communication disorders.

401303.1 Speech Impairments in Children

Credit Points 10 **Level** 2

Prerequisite

401301.1 Child Speech and Language Development

Unit Enrolment Restrictions

Students must be enrolled in the 4763 Bachelor of Speech Pathology or 4764 Bachelor of Speech Pathology (Honours).

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This unit extends previous learning about child communication and the assessment and intervention for speech and language disorders in children. This approach integrates theoretical topics with an exploration of relevant clinical processes and stresses the importance of evidence-based practice.

401055.2 Sport and Exercise Psychology

Credit Points 10 **Level** 3

Corequisite

101614.2 Psychology and Health

Equivalent Units

101615 - Sport and Exercise Psychology

Incompatible Units

100678 - Introduction to Sport Psychology, 100680 - Exercise Psychology, 400322 - Sociological Aspects

Unit Enrolment Restrictions

Students must be enrolled in course 4659 Bachelor of Health Science (PDHPE), 4658 Bachelor of Health Science - Sport and Exercise Science, 4742 Bachelor of Health Science (Health and Physical Education)-Pathway to Teaching (Secondary), 4747 Bachelor of Health Science (Health and Physical Education) or 6001 Diploma in Health Science/Bachelor of Health Science (Health and Physical Education)

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Sport and Exercise Psychology is a topic of particular relevance to those working in the sport, health and fitness, and performance industry. The field of Sport and Exercise Psychology is primarily concerned with the study of the psychosocial factors which influence participation and performance in physical activity and sport, as well as the psychological impact that these activities has on participants. This unit examines pertinent theory, research, and application in the field of Sport and Exercise Psychology.

200999.1 Sport and Society

Credit Points 10 **Level** 3

Assumed Knowledge

A basic understanding of the sport industry

Equivalent Units

400335 - Contemporary Issues in Sport Management

.....

Sport plays a prominent role in the lives of many people across Australia and globally. It provides an opportunity for pleasure and a sense of freedom which may be missing in modern society. However sport is a contested concept and can be a domain which both reinforces and challenges notions such as gender, ethnicity, and nation. This unit explores sport from a sociological perspective, examining the relationship between sport and society, and encourages students to challenge accepted norms and ideologies.

401246.1 Sport Development Applied Project

Credit Points 10 **Level** 3

Assumed Knowledge

An developed level of knowledge in Sport Development.

Prerequisite

401244.1 Sport Development Internship

Incompatible Units

200751 Sport Management Applied Project, 200664 Sport Management Internship

Unit Enrolment Restrictions

Students must be enrolled in the Bachelor of Sport Development (4741)

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The Sport Development Applied Project continues student's engagement with an organisation in the sport and active recreation industry. Building on the foundation laid in the Sport Development Internship, the Applied Project provides students with an opportunity to apply their acquired academic knowledge and skills into real-world applications in an engaged strategic project in sport development.

401244.1 Sport Development Internship

Credit Points 10 **Level** 3

Assumed Knowledge

A developed level of knowledge in Sport Development

Corequisite

401245.1 Sport Governance and Leadership

Incompatible Units

200751 Sport Management Applied Project, 200664 Sport Management Internship

Unit Enrolment Restrictions

Students must be enrolled in 4741 Bachelor of Sport Development. Students must complete 160 Credit Points of core units and electives in 4741.

.....

The Sport Development Internship provides students with the opportunity to experience the practice of sport development in the workplace through a supervised placement in the sport and active recreation industry. Internships will allow students to relate their acquired academic knowledge and to apply their skills to real-world applications in an industry setting. Students will have the opportunity to observe, develop and practice skills in negotiation, problem identification, program planning, implementation and evaluation in a range of settings. The work completed during the Sport Development Internship also lays the foundations for the Sport Development Applied Project to follow.

200996.1 Sport Entertainment

Credit Points 10 **Level** 2

Assumed Knowledge

A basic understanding of the sport industry

Equivalent Units

200665 - Strategic Communication in Sport 400321 - Sport Management 2 200556 - Communication in Sport

Special Requirements - Essential Equipment

Students will be required to have a number of social media accounts for the duration of this unit.

.....

Sport is now at the heart of many cultures with sport consumption, in a variety of forms, playing a significant role in the lives of many people. This unit explores and explains the sporting experience, providing an understanding of those who consume sport and the relationship between sport, its consumers, and the media. The unit equips students with the tools required to work with the media, producing resources, and to engage with and through social media platforms.

401243.1 Sport for Social Development

Credit Points 10 **Level** 1

Assumed Knowledge

A basic understanding of the sports industry, and an appreciation of the diverse communities that exist locally and internationally.

.....

This unit provides an introduction to the concept of Sport for Development. Students will explore the role sports and physical recreation can play in achieving positive social outcomes in communities, both locally and internationally. Students will learn about the multidisciplinary nature of Sport for Development and how the disciplines of health and sports science, sports management and community development come together in the planning, implementation and evaluation of sports and physical recreation projects.

200751.2 Sport Management Applied Project

Credit Points 10 **Level** 3

Assumed Knowledge

An introductory level of knowledge in sport management.

Prerequisite

200707.2 Service Industry Studies

Equivalent Units

200580 - Sport Management Applied Project

Incompatible Units

200561 - Hospitality Management Applied Project

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This unit provides students a unique opportunity to integrate knowledge gained from operational and theoretical perspectives of sport studies into application in an engaged research project in sport management. Students will engage in comprehensive projects which bring together real world industry problems and sport theory. Students studying Sport Management Applied Project may have the opportunity to undertake an international field trip to experience the sport environment from an international perspective.

300700.6 Statistical Decision Making

Credit Points 10 **Level** 1

Equivalent Units

200192 Statistics for Science, 200263 Biometry, 200032 Statistics for Business, 200052 Introduction to Economic Methods, 301123 Management Analytics, 700007 Statistics

for Business (WSTC), 700033 Biometry (WSTC), 700041 Statistical Decision Making (WSTC)

Incompatible Units

200182 Quantitative Techniques

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Statistical Decision Making introduces students to various statistical techniques supporting the study of computing and science. Presentation of the content will emphasize the correct principles and procedures for collecting and analysing scientific data, using information and communication technologies. Topics include describing different sets of data, probability distributions, statistical inference, and simple linear regression and correlation.

700041.6 Statistical Decision Making (WSTC)

Credit Points 10 **Level** 1

Prerequisite

Students enrolled in 7005 Diploma in Information and Communications Technology, 7041 Bachelor of Information and Communications Technology (WSTC First Year Program), 7067 Diploma in Information and Communications Technology Extended, 7083 Bachelor of Information and Communications Technology Extended (WSTC First Year Program), 7104 Diploma in Information and Communications Technology (Health Information Management), 7105 Bachelor of Information and Communications Technology (Health Information Management) (WSTC FYP), 7106 Diploma in Information and Communications Technology (Health Information Management) Extended or 7107 Bachelor of Information and Communications Technology (Health Information Management) Ext (WSTC FYP) must pass 700045 Statistics for Academic Purposes (WSTC Prep) before enrolling in this unit.

Equivalent Units

200192 - Statistics for Science, 200263 - Biometry, 200032 - Statistics for Business, 200052 - Introduction to Economic Methods, 300700 - Statistical Decision Making, 700007 - Statistics for Business (WSTC), 700033 - Biometry (WSTC)

Incompatible Units

200182 - Quantitative Techniques

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diploma courses (7067, 7083, 7106, 7107) must have passed 40 credit points in order to enrol in this unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

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Statistical Decision Making introduces students to various statistical techniques supporting the study of computing and science. Presentation of the content will emphasise the correct principles and procedures for collecting and analysing scientific data, using information and communication technologies. Topics include describing different sets of data, probability distributions, statistical inference and simple linear regression and correlation.

300991.1 Statistical Hydrology

Credit Points 10 **Level** 3

Prerequisite

300983.1 Surface Water Hydrology

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This unit covers the principles of statistical hydrology. It explores at-site flood frequency analysis, regional flood frequency analysis, trend analysis of hydrological data, linear regression analysis and multivariate statistical techniques to solve hydrological problems.

401176.1 Statistical Methods in Epidemiology

Credit Points 10 **Level** 7

Assumed Knowledge

High school mathematics (arithmetic, formulas and algebra, reading graphs)

Prerequisite

401077.1 Introduction to Biostatistics

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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Statistical ideas are integral to the conceptual basis of epidemiology and provide the tools needed to interpret epidemiological information and conduct epidemiological studies. Most professions in the health sciences need to be able to read and interpret statistics relating to individual and population health status and health risks, and to identify appropriate statistical methods to evaluate interventions, health policies and programs. Many public health practitioners are actively involved in surveillance, quantitative research and/or evaluation. This unit aims to support students to reach a level of proficiency in the selection of appropriate statistical methods to address specific research questions with a given dataset, conduct the selected analysis, interpret the results appropriately and draw valid and insightful conclusions about the research question.

700045.3 Statistics for Academic Purposes (WSTC Prep)

Credit Points 5 **Level** Z

Assumed Knowledge

Year 10 Mathematics or equivalent

Equivalent Units

700014 - Statistics for Academic Purposes (UWSCDip); 900011 - Statistics for Academic Purposes (UWSC)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

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This unit is designed to prepare students for study in statistics at first year university level. The unit develops those skills specific to the statistical requirements of further

study in the areas of arts, business, science and the humanities.

200032.6 Statistics for Business

Credit Points 10 **Level** 1

Assumed Knowledge

HSC Mathematics/Mathematics Extension 1 is desirable.

Equivalent Units

200192 Statistics for Science, 300700 Statistical Decision Making, 200263 Biometry, 200052 Introduction to Economic Methods, 301123 Management Analytics, 700007 Statistics for Business (WSTC), 700033 Biometry (WSTC), 700041 Statistical Decision Making (WSTC)

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Statistics for Business introduces the basic concepts and techniques of statistics that are particularly relevant to problem solving in business. It also provides a sound base for more advanced study in statistics and forecasting in subsequent sessions. Topics include: presentation of data; descriptive statistics; the role of uncertainty in business decision making; hypothesis testing; and basic forecasting.

700007.5 Statistics for Business (WSTC)

Credit Points 10 **Level** 1

Assumed Knowledge

Mathematics, equivalent to the Mathematics subject in the NSW HSC

Equivalent Units

200032 - Statistics for Business

Incompatible Units

200192 - Statistics for Science, 200052 - Introduction to Economic Methods, 200182 - Quantitative Techniques, 200263 - Biometry

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in extended diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Pre-requisite: Students enrolled in 7005 Diploma in Information and Communications Technology, 7007 Diploma in Business and Commerce, 7040 Bachelor of Business and Commerce (UWSC First Year Program), 7041 Bachelor of Information and Communications Technology (WSTC First Year Program), 7059 Diploma in Business and Commerce Extended, 7063 Diploma in Business and Commerce, 7064 Bachelor of Business and Commerce (UWSC First Year Program), 7071 Bachelor of Business and Commerce Extended (UWSC First Year Program), 7098 Diploma in Business, 7099 Bachelor of Business (WSTC First Year Program), 7102 Diploma in Business Extended or 7103 Bachelor of Business Extended (WSTC First Year Program) must pass 700045 Statistics for Academic Purposes (WSTC Prep) before enrolling in this unit.

.....

This unit introduces the basic concepts and techniques of statistics that are particularly relevant to problem solving in business. It also provides a sound base for more advanced

study in statistics and forecasting in subsequent sessions. Topics include: presentation of data; descriptive statistics; the role of uncertainty in business decision making; hypothesis testing.

300730.2 Steel Structures

Credit Points 10 **Level** 3

Prerequisite

300733.2 Introduction to Structural Engineering

Corequisite

300732.2 Structural Analysis

Equivalent Units

85014 - Steel Structures

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This unit covers the basic behaviour of steel members and structures, the appropriate methods to analyse them and the design criteria and methods used to proportion them.

200722.2 Strategic Employment Relations

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge of human resource management and industrial relations from studying at least 40 credit points at the postgraduate level.

Incompatible Units

46519 - Employment Relations Strategy and Change.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This capstone unit aims for students to acquire the skills, knowledge and understanding of the challenges of managing people strategically in complex and turbulent environments. The unit examines theories on business strategy, strategic management, human resource strategy and industrial relations strategy. The use of knowledge of Human Resource Management and Industrial Relations in strategic analysis and evaluation for transforming the people management function is explained. Management practice is considered through examining ways of acting strategically relative to tendencies for the human resource function to become mired in tactical responses. The tools and techniques for analysing, implementing and evaluating strategy are emphasised.

200587.2 Strategic Management

Credit Points 10 **Level** 3

Prerequisite

200571.2 Management Dynamics OR **200912.1** Enterprise Leadership OR **MG102A.3** Management Foundations

Equivalent Units

MG302A - Strategic Management

.....

This unit explores the nature and essence of strategy and how this is created in various organisational, industry and

economic contexts. The complexity of the strategy process, content and context means that there is not one clear position on strategy. The impact of this complexity on managers seeking to develop a strategic thinking capability is examined. The paradoxes and debates in the field of strategy are explored in an effort to understand the concept of sustainable competitive advantage. Students will utilise the theoretical knowledge presented in a dialectical enquiry framework to undertake strategic analysis, and develop a selection of strategic options, for case study scenarios and in a team strategy simulation.

200087.3 Strategic Marketing Management

Credit Points 10 **Level** 3

Assumed Knowledge

It is assumed that students have knowledge of basic marketing concepts, theories, and frameworks in consumer behaviour, marketing communications and marketing research.

Prerequisite

200083.2 Marketing Principles

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This unit explores important strategic marketing theories, concepts and practice which are integral to business success. Marketing strategy is central to corporate and small business planning and therefore strategic marketing decisions contribute significant value to the determination of business scope, partnerships, product innovation and resource allocation. This includes defining appropriate customer focus, product positioning, distribution and pricing strategies. This unit is designed to enable students to make strategic marketing management decisions that add value for businesses in both the corporate and small business sectors.

200998.1 Strategic Sport Leadership

Credit Points 10 **Level** 3

Assumed Knowledge

An introductory level of knowledge in sport management.

Equivalent Units

200244 - Sport Management Planning and Development
200754 - Sport Management Planning and Development

.....

In contemporary sport environments, sport practitioners require an in-depth understanding of strategic leadership processes and practices. In order to respond to sport's ongoing professionalisation, globalisation, demographic changes and emerging consumer needs, sport managers and government policy makers require knowledge and skills which will allow them to successfully manage these changes. Students will develop knowledge and skills in areas such as policy development and strategic planning, executive leadership and change management processes and practices. The unit content will be applied across diverse sport environments including high performance sport in not-for profit contexts and community sport with a focus on sport for development. Students will apply their strategic leadership knowledge and skills by formulating a policy or related initiative for a sport agency or organisation.

401148.1 Strength and Conditioning

Credit Points 10 **Level** 3

Prerequisite

401140.1 Biomechanics AND **401142.1** Exercise Physiology AND **401150.1** Exercise Testing and Measurement

Equivalent Units

400890 - Resistance Training and Physiology

Unit Enrolment Restrictions

Students must be enrolled in 4658 - Bachelor of Health Science (Sport and Exercise Science).

.....

This unit provides students with an understanding of the interdependent areas of nutrition within the context of sport, physical activity, and exercise. Nutritional needs and recommendations for all levels and types of physical activity are covered along with the links between nutrition and health, sport performance, body composition and control of body weight. Students will develop skills in nutritional analysis and program development, measurement of energy expenditure and body composition assessment. Students will use these skills and knowledge in the individualisation of advice on exercise nutrition for health and sport performance.

300732.2 Structural Analysis

Credit Points 10 **Level** 3

Prerequisite

300733.2 Introduction to Structural Engineering

Equivalent Units

85010 - Structural Analysis

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

101948.3 Structure of Language

Credit Points 10 **Level** 2

Assumed Knowledge

Basic knowledge of linguistics, phonetics and phonology

Corequisite

101945.2 Introduction to Linguistics AND **102042.1** The Sound of Language

Equivalent Units

101455 - The Structure of English

Unit Enrolment Restrictions

Successful completion of 40 credit points.

This unit aims to equip students with knowledge about the structural aspects of language. Students will learn to describe, analyse and reflect on the structure and meaning of linguistic elements from word to sentence level. Using examples from different languages, including Australian Indigenous languages and other languages spoken in Australia, this unit will provide students with an understanding of how structure and meaning are connected, how they link up with other areas of linguistics, and how research in this field is relevant to the linguistic ecology of Australia.

102187.1 Sultans, Colonists and Nationalists: Indonesia C1200-1942

Credit Points 10 **Level** 3

Incompatible Units

101972 - The History of Modern Indonesia

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit examines the historical background of Indonesia's struggle to attain independent nationhood. Emphasis will be placed on social, cultural and political factors that shaped Indonesia prior to 1942, encompassing the classical period of the Hindu-Buddhist kingdoms, the rise of the early modern Islamic sultanates, the first encounters between Europeans and the peoples of the 'Malay world', the emergence of the Dutch East India Company (VOC) as a dominant force in the region, the subsequent imposition of the Dutch colonial rule, and, most significantly, the development of modern Indonesian nationalism.

200329.4 Supply Chain Management

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course, the Master of Research, 3752 Master of Project Management or 3749 Master of Science.

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With a rapid increase in global trade and increasing customer expectations, firms are under considerable competitive pressure to find cost-effective and creative ways of delivering value to customers. Since the creation of customer value needs to be viewed holistically – from raw material movement from suppliers through to transformation in the factory and then on to distributors and customers – the effective management of the supply chain and related business networks is critical to achieving competitive advantage. Through formal lectures, case study discussions, and assignments, this unit provides the foundational knowledge, tools, and techniques needed to participate in the design, implementation, and management of an effective supply chain.

300983.2 Surface Water Hydrology

Credit Points 10 **Level** 4

Prerequisite

300765.2 Hydraulics

Equivalent Units

300766 - Hydrology

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Surface water hydrology covers the principles of hydrology as it pertains to surface water component of the hydrologic cycle. The principal focus is on the relationship between rainfall and surface runoff. The extent of flooding resulting from storm events will be evaluated through floodplain delineation process. Successful completion of this unit provides the competencies required to propose sustainable engineering solutions to potential adverse impacts of land-use changes. This unit builds on the hydraulic concepts acquired from the units completed earlier.

300738.3 Surveying for Engineers

Credit Points 10 **Level** 1

Assumed Knowledge

Students need a good knowledge of Geometry and Trigonometry.

Prerequisite

200237.3 Mathematics for Engineers 1

Equivalent Units

85003 - Surveying for Engineering, 700120 - Surveying for Engineers (WSTC AssocD)

Special Requirements - Essential Equipment

For practical classes, students MUST WEAR: hat, closed shoes. Students SHOULD WEAR close fitting clothes that are suitable for the outdoors in the Winter / Spring climate.

.....

This is a core unit which provides students with basic skills that are required to carry-out Surveying. After the completion of this unit, students will be able to carry-out required preliminary surveying for most of the civil and construction engineering projects. This unit will also serve as a foundation for most of the units that follow in the course.

700120.2 Surveying for Engineers (WSTC AssocD)

Credit Points 10 **Level** 1

Equivalent Units

300738 - Surveying for Engineers

Unit Enrolment Restrictions

Students must be enrolled in 7022 Associate Degree in Engineering

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This unit provides students with basic skills that are required to carry out surveying. After the completion of this unit, students will be able to carry out required preliminary

surveying for most of the civil and construction engineering projects.

300798.1 Sustainability and Risk Engineering

Credit Points 10 **Level** 4

Unit Enrolment Restrictions

Successful completion of 200 credit points.

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Analysis of sustainability with engineering perspective is increasingly becoming important in the modern world. Also, in the future sustainability will include risk engineering. Hence, engineers with in-depth understanding of different tools that can be used for both sustainability and risk analysis will have significant edge in their future career. The main objective of this unit is to introduce different tools available for sustainability and risk analysis in various engineering applications. The content includes renewable/alternative energy systems, energy/resource efficiency, sustainable/green buildings, sustainable transport and infrastructure, sustainable water management, environmental management systems, sustainability reporting, life cycle analysis, probability/reliability theory, risk assessment models, overall system analysis.

300939.2 Sustainability and Risk Engineering (PG)

Credit Points 10 **Level** 7

Assumed Knowledge

Engineering problem solving skills.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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Analysis of sustainability with engineering perspective is increasingly becoming important in the modern world. Also, in the future sustainability will include risk engineering. Hence, engineers with in-depth understanding of different tools that can be used for both sustainability and risk analysis will have significant competitive edge in their future career. The main objective of this unit is to introduce different tools available for sustainability and risk analysis in various engineering applications. The content includes renewable/alternative energy systems, energy/resource efficiency, sustainable/green buildings, sustainable transport and infrastructure, sustainable water management, environmental management systems, sustainability reporting, life cycle analysis, probability/reliability theory, risk assessment models, overall system analysis.

301095.1 Sustainable Design 1: Materials and Technology

Credit Points 10 **Level** 1

Equivalent Units

300304 - Sustainable Design: Materials Technology

Special Requirements - Essential Equipment

Students are required to purchase casting material and supplies under the value of \$100. Online work safety module must have been completed prior to workshop

space use. Specific requirements regarding machine use may require student safety inductions per apparatus i.e. drill, sander.

.....

In this unit we explore materials from a design perspective - their properties, qualities, typical applications, their cost and the environmental impact associated with their extraction, use and disposal. We also look at how they can be formed using contemporary and emerging processing techniques - from sand casting to rapid prototyping. Lectures are supplemented with live demonstrations of materials processing techniques. Students undertake a life cycle materials research project and a design for manufacture (DFM) project.

301081.2 Sustainable Design 2: Product Service Systems

Credit Points 10 **Level** 2

Prerequisite

301095.1 Sustainable Design 1: Materials and Technology
OR **300965.1** Engineering Materials

Equivalent Units

300306 - Sustainable Design: Sustainable Futures

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This unit builds students' capacity for systems thinking in the context of designing new products and services. Students will explore contested and emerging sustainability issues, gather evidence of opportunities for change, and then scope out plans for implementing new product service systems. Students will conduct this by researching and modelling some of the current challenges facing socio-ethical, economic and environmental domains. Designers must now go beyond current uses of technology to visualise and plan scenarios of how the world could be. This entails engaging with complex ecological equilibria, and developing system solutions that are acceptable socially and attractive culturally.

300998.1 Sustainable Energy Systems

Credit Points 10 **Level** 4

Assumed Knowledge

Basic understanding of the principles and engineering applications of physics in energy systems.

.....

This unit prepares engineering students to work in the area of renewable energy systems and to be knowledgeable and be in a position to appraise environmental, social, legal, economic and political issues concerned with renewable energy systems.

300791.1 Sustainable Food Production

Credit Points 10 **Level** 2

Incompatible Units

300530 - Advances in Agonomy

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Sustainable Food Production provides students with the knowledge and skills required to analyse current and future food production systems with an emphasis on water and energy efficiency. The subject material integrates agronomic principles with food supply chain analysis. This approach facilitates an analytical framework that goes beyond farm-gate productivity by including aspects of the food supply chain. Key concepts include water use efficiency, nitrogen balance, energy balance, life cycle assessment, and greenhouse gas emissions. Case studies will be drawn from a range of food production systems, emphasising productivity per unit of input.

101569.2 Sustainable Futures

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 80 credit points.

In this unit we will explore the questions 'can we create a sustainable society? If so what would it look like and how could it be done; is it possible to live ethically with each other and the planet?' While major contemporary theoretical concepts will be explored the emphasis is on developing sustainable alternatives to the way we now live both locally and globally. Particular attention will be paid to thinking ecologically, postcolonial development and issues of race and gender.

301003.1 Sustainable Systems

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

This unit seeks to teach the essential tools available to achieve environmental sustainability in various engineering, construction, industrial design professional settings. The unit will particularly focus on the application of the tools and exploration of Australian regulatory and sustainable development practices.

401305.1 Swallowing Assessment and Management

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Students must be enrolled in the 4763 Bachelor of Speech Pathology or 4764 Bachelor of Speech Pathology (Honours).

The unit addresses normal and disordered swallowing at mealtimes. It focuses on the assessment and management of feeding and swallowing disorders in infants, children and adults and addresses assessment and intervention practices. Clinical assessment and specific intervention techniques are studied in relation to specific dysphagic populations.

300165.4 Systems Administration Programming

Credit Points 10 **Level** 3

Assumed Knowledge

Students should have a thorough grounding in systems programming and operating systems basics.

Prerequisite

300167.3 Systems Programming 1

Incompatible Units

300577 - Script programming

This unit covers programming techniques and tools used to administer standalone and networked computer systems. The unit focuses on the use of high level interpretive scripting languages to automate everyday administrative tasks, and to monitor and control running systems. Techniques to extend scripting language capabilities by dynamic linking to compiled code are examined, particularly in terms of access to operating system level functions. The unit also examines the use of administrative programs and tools to monitor and adjust system performance and capacity.

300585.2 Systems Analysis and Design

Credit Points 10 **Level** 1

Assumed Knowledge

Students should have knowledge of the fundamentals of information systems, computer systems, computer applications and information processing

Equivalent Units

300131 Introduction to Analysis and Design; 700013 Systems Analysis and Design (WSTC)

This unit introduces the concepts of System Analysis and Design. The study of methodologies and techniques for problem recognition, requirement analysis, process modelling and/or data modelling are essential elements of this unit. The Systems Development Life Cycle model is employed as the prime approach to teach the unit, providing students with the basic skills required for analysis and design of logical solutions to information systems problems. The use of Computer Aided System Engineering tools will be discussed in practical sessions.

700013.3 Systems Analysis and Design (WSTC)

Credit Points 10 **Level** 1

Assumed Knowledge

Students should have knowledge of the fundamentals of information systems, computer systems, computer applications and information processing

Prerequisite

Students enrolled in 7067 Diploma in Information and Communications Technology Extended and 7083 Bachelor of Information and Communications Technology Extended

(WSTC First Year Program) must pass 700199 Academic Communication 2 (WSTC Prep) or 700208 English for Tertiary Study 2 (WSTC Prep) or 700210 Introduction to Academic Communication 2 (WSTC Prep), and must pass 700201 Computer Studies (WSTC Prep) before enrolling in this unit. Students enrolled in 7138 Diploma in Information and Communications Technology Extended-ICT, 7139 Diploma in Information and Communications Technology Extended, 7140 Diploma in Information and Communications Technology Extended-IS and 7141 Diploma in Information and Communications Technology Extended-HIM must pass 700276 Academic & Professional Communication (WSTC Prep) and must pass 700205 Academic Skills for ICT (WSTC Prep) and must pass 700278 Information Technology in Business (WSTC Prep) before enrolling in this unit.

Equivalent Units

300131 - Introduction to Analysis and Design, 300585 - System Analysis and Design 300585 - Systems Analysis and Design

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diploma courses must have passed 40 credit points of preparatory units in order to enrol in this unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year Two units.

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This unit introduces the concepts of System Analysis and Design. The study of methodologies and techniques for problem recognition, requirement analysis, process modelling and/or data modelling are essential elements of this unit. The Systems Development Life Cycle model is employed as the prime approach to teach the unit, providing students with the basic skills required for analysis and design of logical solutions to information systems problems. The use of Computer Aided System Engineering tools will be discussed in practical sessions.

300166.3 Systems and Network Management

Credit Points 10 **Level** 3

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 TCP/IP protocol suite, the OSI model, and current networking and internetworking technologies.

Prerequisite

300095.4 Computer Networks and Internets OR **300952.2** Wireless and Mobile Networks

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With the advent of the era of Internet of Things, the Internet has become a huge infrastructure in which various kinds of systems are running to deliver a plethora of network services. To ensure the efficient utilization of network resources (e.g., bandwidth) and the convenient access to network services, systems and networks must be managed in a proper way. Facing this demand, this unit covers the standards, protocols and skills pertinent to the

management of systems and networks. Moreover, this unit introduces Software Defined Networking (SDN), a new paradigm for conducting network management with programmability, flexibility and scalability.

300167.4 Systems Programming 1

Credit Points 10 **Level** 2

Assumed Knowledge

This unit requires a knowledge base of at least the level of a completed first year in a professional Computing degree. Ability to apply fundamental concepts in data structures, algorithms, programming principles will be assumed.

Prerequisite

300581.4 Programming Techniques OR **300903.1** Programming Techniques (Advanced) OR **300582.3** Technologies for Web Applications OR **300147.4** Object Oriented Programming OR **300027.2** Engineering Computing AND **300018.2** Digital Systems 1

Unit Enrolment Restrictions

Students in Bachelor of Engineering, Bachelor of Engineering (Advanced) or Bachelor of Engineering Science must be enrolled in one of the Key Programs attached to the course.

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This unit provides an introduction to the knowledge and skills required for the design, writing and support of technical software and other such functions normally falling within the role of the systems programmer. It provides for detailed study of a systems programming environment and its application to systems programming tasks.

301088.1 Tangible Interaction Design

Credit Points 10 **Level** 2

Prerequisite

300570.3 Human-Computer Interaction

Special Requirements - Essential Equipment

Online work safety module must have been completed prior to workshop space use. Specific requirements regarding machine use may require student safety inductions per apparatus i.e. drill, sander.

.....

This unit will provide students with the capacity to create interactive products that can sense environmental stimuli and exhibit an appropriate yet intelligent response. Students will be expected to write script based programs to control hardware circuits connecting various Input/Output peripherals (sensors, actuators). The range of interactive products studied and built by the students will be diverse; ranging from household everyday products to artifacts that can be used in public spaces.

200187.3 Taxation Law

Credit Points 10 **Level** 3

Prerequisite

200183.4 Law of Business Organisations

Equivalent Units

61523 - Taxation Law and Practice, AC302A - Taxation (V1), F3002 - Taxation Law

Incompatible Units

200019 - Revenue Law

Unit Enrolment Restrictions

Students enrolled in 2502 Bachelor of Laws (Non graduate entry) must obtain permission to enrol in this unit.

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This unit covers the constitutional basis of taxation, the process of determining income tax liability, the concept of income tax and allowable deductions, taxation of fringe benefits, taxation of certain entities (partnerships, companies and trusts), tax accounting, trading stock provisions, tax administration and practice, taxation planning and avoidance, and the Goods and Services Tax.

200973.2 Techniques in Financial Accounting

Credit Points 10 **Level** 2

Prerequisite

200111.3 Financial Accounting Applications

Incompatible Units

200536 Intermediate Financial Accounting

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Techniques in Financial Accounting is the third unit in the financial accounting stream and builds upon Financial Accounting Applications as part of the accredited accounting program. It introduces a company as a business structure and the accounting requirements for their formation and operations. The unit advances tools required for accurate record keeping leading to compilation of financial statements. The unit teaches participants how to account for receivables and payables, the disposal of non-current assets, and preparation of cash flow statements. Successful completion of the unit will equip participants with a practical and theoretical understanding of usefulness of general purpose financial reports.

300976.1 Technologies for Mobile Applications

Credit Points 10 **Level** 2

Prerequisite

300580.2 Programming Fundamentals

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This unit introduces students to the technologies used to develop and deploy mobile applications. The unit covers evaluating organisational needs in the mobile space, responsive web design, web technologies, interface challenges, location awareness, cloud services and data storage.

300582.5 Technologies for Web Applications

Credit Points 10 **Level** 2

Assumed Knowledge

Basic programming principles and program control structures equivalent to that covered in Programming Fundamentals. Basic file management and PC operation including how to access and search the World Wide Web.

Prerequisite

300580.2 Programming Fundamentals

Equivalent Units

300129 - Interactive Web Site Development

Incompatible Units

300101 - Creating and Managing Web Sites

.....

Building on material covered in Programming Fundamentals this unit introduces students to some of the key technologies for developing interactive and dynamic web applications from both the client and server perspective. The unit covers web site design, web site development, web page accessibility and usability, HTML, CSS, client side and server side scripting, database interaction, web site promotion (Search Engine Optimisation) and web security.

700167.2 Tertiary Study Skills in Construction Management (WSTC Prep)

Credit Points 0 **Level** Z

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

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This unit is designed to assist students to become successful independent, reflective, lifelong learners. It introduces students to a range of theories and concepts to facilitate the development of practical skills and personal attitudes necessary for success in tertiary study and the workplace.

700169.2 Tertiary Study Skills in Engineering (WSTC Prep)

Credit Points 0 **Level** Z

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

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This unit is designed to assist students to become successful independent reflective learners. It introduces students to a range of theories and concepts to facilitate the development of practical skills and personal attitudes necessary for success in tertiary study.

700170.2 Tertiary Study Skills in Health Science (WSTC Prep)

Credit Points 0 **Level** Z

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

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This unit is designed to assist students to become successful independent reflective learners. It introduces students to a range of theories and concepts to facilitate the development of practical skills and personal attitudes necessary for success in tertiary study.

700171.2 Tertiary Study Skills in Information and Communications Technology (WSTC Prep)

Credit Points 0 **Level** Z

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

.....

This unit is designed to assist students to become successful independent reflective learners. It introduces students to a range of theories and concepts to facilitate the development of practical skills and personal attitudes necessary for success in tertiary study.

700173.2 Tertiary Study Skills in Science (WSTC Prep)

Credit Points 0 **Level** Z

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

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This unit is designed to assist students to become successful independent reflective learners. It introduces students to a range of theories and concepts to facilitate the development of practical skills and personal attitudes necessary for success in tertiary study and beyond.

102477.1 TESOL Curriculum Design

Credit Points 10 **Level** 3

Assumed Knowledge

Sufficient knowledge about teaching international English and English language teaching methodology

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This unit explores issues, approaches and stages in the TESOL curriculum design process within a range of contexts. It assists students to identify and implement effective strategies for planning, designing and evaluating language learning programs relevant to the needs of the learners and the contexts of learning.

102478.1 TESOL Placement

Credit Points 20 **Level** 3

Prerequisite

102474.1 TESOL Teaching Methodology

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This unit provides students an opportunity to undertake a professional practice unit which consists of an internship in an English language teaching organisation for students of TESOL. It involves participation in the various aspects of the work of the teaching organisation, including classroom observation, service learning, supervised English language teaching practice component, and volunteer tutoring either in Australia or overseas. In-context placement experience assists TESOL students' career development.

102474.1 TESOL Teaching Methodology

Credit Points 10 **Level** 2

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This unit focuses on the process of teaching English as a foreign/second language. It aims to give students in the field of TESOL knowledge, skills and strategies in teaching such as choosing teaching approaches, selecting and sequencing language content, managing classrooms, evaluating and designing teaching and learning resources for a wide range of learner levels and types. The unit also aims to develop skills of critical reflection, action research and evaluation of their own practice for potential teachers.

100968.3 Texts and Traditions

Credit Points 10 **Level** 1

Equivalent Units

700133 - Texts and Traditions (WSTC)

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This unit introduces students to selected modern literature and philosophy of the Western tradition. Focusing on primary texts, the unit offers a critical appreciation of major intellectual, social, and aesthetic changes, understood as crucial elements in the shaping of Western modernity from the Enlightenment forward. The unit follows major concepts or themes, which students will study through their different cultural representations. Tensions, contradictions, and oppositions that these themes have engendered will also be examined. Students will gain an appreciation of major texts, aesthetic styles, and ways of thinking about the world and human experience, which have been central to modernity.

200993.1 The Accommodation Industry

Credit Points 10 **Level** 2

Assumed Knowledge

A basic understanding of the core concepts of hospitality

Equivalent Units

200709 - Managing the Accommodation Experience 200144 - Managing the Accommodation Experience

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The Accommodation Industry is concerned with developing skills for managing people, operations and business in hotels and hospitality companies. It focuses on the business operations and management issues to be found in successful lodging enterprises. The unit incorporates the application of key aspects of marketing, service management, financial management, revenue management and business development within a hospitality context. It develops effective problem solving and critical thinking skills necessary to meet the service industry's ever-changing needs. Students can expect to find employment in a range of domestic and international accommodation management facilities such as hotels, resort groups, cruise ships and the accommodation sector.

200118.3 The Accountant as a Consultant

Credit Points 10 **Level** 3

Prerequisite

200108.2 Contemporary Management Accounting

Equivalent Units

H3328 - The Accountant as a Management Consultant

This unit aims to provide students with a 'hands on' flexible and practical work integrated learning (WIL) experience in the Accounting degree. This is mainly done through working in groups on projects as accountants would do when they engage with clients and entrepreneurs as professional consultants. Students come to understand the role of an accountant in the effective management of the business to sustain, grow and expand the business to higher levels consulting problems involving a wide range of business related issues. This unit is designed to give students an opportunity to apply the theoretical knowledge gained in other units in their degree program thus enabling them to bring knowledge to life. On successful completion of this unit students will be able to appreciate the relevance of their business subjects/units in real business situations and to become business consultants.

102349.1 The Anthropologies of Gender and Sexualities

Credit Points 10 **Level** 3

Prerequisite

102344.1 Different Ways of Being in the World: Introduction to Social Anthropology

Unit Enrolment Restrictions

Successful completion of 80 credit points in currently enrolled course.

Examining the social construction of gender has been central to anthropological inquiries since the 1930s. Early ethnographic studies were instrumental in debunking gender essentialism and challenging the hegemony of western constructs about 'masculinity' and 'femininity'. Since the 1930s, critical Anthropological theories and ethnographies have through cross-cultural comparison, demonstrated the great variation in expressions of individual sexuality/ies, the dynamics and confines behind the construction of gender roles and the cultural meaning

and expression of gender categories across the globe. This unit will address the ongoing exploration of and challenges to the sex (biology) vs. gender (culture) dichotomy and contemporary cultural, social and political transformation (manipulation) of these categories.

101957.2 The Asian Century

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

This unit explores whether the 21st century can be referred to as the Asian Century. It addresses itself to a host of questions, including: What is the Asian Century? How does it differ from the American Century (20th Century) and the British Century (19th Century)? What are the historical, cultural and philosophical foundations of the Asian Century? How has Asia been transformed since World War II, and more recently? What are the risks and challenges for Asian states in the Asian Century? What are the challenges and the opportunities for the West (including Australia) in the Asian Century?

200549.2 The Australian Macroeconomy

Credit Points 10 **Level** 1

Assumed Knowledge

HSC Mathematics

Equivalent Units

200049 - Macroeconomics

This unit is an introduction to macroeconomic concepts, analysis and issues in the Australian context. Basic concepts introduced and applied include: national income accounting, economic structure, price indexes and inflation, the balance of payments, and labour market aggregates. These concepts are applied in describing and explaining the recent evolution of the Australian economy in terms of growth, structural change, price stability, and employment. This leads to a discussion of major policy issues such as the role of governments in managing economic fluctuations, and the implications of Australia's foreign liabilities. The course ends with a brief introduction to modelling income determination.

101009.4 The Body in Culture

Credit Points 10 **Level** 3

Equivalent Units

SS224A - Gender, Culture and the Body, 100286 - The Body in Culture

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

This unit introduces students to key theorists, concepts, and debates in socio-cultural studies of embodiment. The first module introduces the field of study and explores

influential perspectives on bodies as biocultural and social. The unit explores topics such as the social brain, culture and the senses, the modern 'civilised' body, sexed and racialised bodies, ableism and bodily diversity. It will demonstrate how even colonialism, multiculturalism and socio-economic inequalities are lived on the skin, in the body and through the senses. The second module explores current debates and body politics and the content is determined in collaboration with enrolled students. The topics can be as diverse as digital self-tracking; 'fat wars'; race and cosmetic surgery; bodies as commodities, and; sexual difference and sport.

102207.1 The Brain and Learning

Credit Points 10 **Level** 3

Equivalent Units

101662 - Young People, Their Futures and Education

Interest in the relationship between the brain and how people learn is at an all-time high. Surprisingly, most theories of teaching and learning say little about the brain. In an age where 'brain-based' educational products are a multimillion-dollar industry, there is a need for students, parents, and anybody with an interest in education to have some basic knowledge of the brain. This unit is designed to provide students with a straightforward introduction into the limitations and possibilities of brain function, especially with respect to memory and learning. In addition, this unit also examines motivation, exceptional learners, and challenging groups.

200988.1 The Business of Hospitality

Credit Points 10 **Level** 1

Incompatible Units

200273 - Managing Service and Experience

The Business of Hospitality employs a case study approach to examine successful hospitality operations and develop an understanding of what is required to plan, design, deliver and manage engaging hospitality experience as the foundation of prosperous hospitality operation. In considering the broader context of the hospitality industry, students will be given the opportunity to explore where they may fit within a hospitality context.

101539.4 The Composer-Performer

Credit Points 10 **Level** 2

Assumed Knowledge

Students are to have completed the pre-requisites or equivalent knowledge and ability will be determined by the Unit Coordinator.

Equivalent Units

101092 - Music Performance 4: The Composer-Performer

Unit Enrolment Restrictions

101522 Composition, Craft & Theory or 102565 Songwriting and Music Theory Plus one of the following:
101530 Music Composition: Concepts & Creativity or
101521 Collaboration & Live Music Performance or 102548

Composition and Creativity or 102555 Music Group Performance

Students are required to both perform and compose in this unit. While students may choose to perform their own work, this unit also offers the opportunity for students to experience the particular challenges and rewards offered by the close collaboration entailed in both sides of the composer/performer interface. Each student will choose a balance of performance and composition tasks appropriate to her/his specific musical path. The unit presents basic compositional techniques and canvasses issues regarding the composer/performer relationship through a series of lectures, tutorials and workshops. Students will also continue to develop their event administration skills.

300966.1 The Cosmos in Perspective: Information and Life

Credit Points 10 **Level** 2

Across the world and across history, humans have wondered about the universe, its history and evolution. From the Big Bang to the end of the Universe, from our own Solar System to the farthest superclusters of galaxies, our knowledge and understanding of the Universe in which we live is growing at an amazing rate. In this unit, we survey the cosmos from two different perspectives relating to complexity: The perspectives of Information and Life. From the information perspective, we examine the growth of complexity and structure in the universe, and consider the uses of information theory to understand cosmic evolution. We know that Life exists in the Universe, but know little about how common it might be - we consider the requirements for life to exist and the possibility of other life in the Universe by examining the cosmos at scales from planets to the universe. We consider cultural perspectives on the cosmos, including that of indigenous Australians. This unit is non-technical and is suitable as an introductory unit for students in computing, engineering and science, and as a general education unit for students in all other areas.

102298.1 The Cutting Edge: Advanced Studies in Humanities and Communication Arts

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in the Bachelor of Research Studies/Master of Research or Master of Research.

The School of Humanities and Communication Arts teaches across a range of disciplines including Design, Music, Creative Arts, Communications and Media, Languages and Linguistics, Cultural and Social Analysis, Philosophy, Literary Studies, History and Political Thought, International Relations and Asian Studies, Indigenous Studies. This shell unit provides advanced academic training, advanced knowledge and intellectual development in the student's academic discipline by focusing on current debates in selected fields of study. The content of this unit will change according to fields of research represented in

the cohort of each year, the issues of current concern in the discipline streams taught, and staff expertise. It will be taught in streamed, parallel seminars organised by broadly defined disciplinary grouping.

101591.2 The Economics of Cities and Regions

Credit Points 10 **Level** 2

Equivalent Units

101298 - Urban Development Resource Allocation

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'Economics of cities and regions' introduces the major political-economic issues facing cities and regions. Class discussions investigate how political-economic forces (such as globalisation, structural change etc) shape the development of cities and regions. Class activities enable students to apply economic principles to urban and regional planning and policy decisions, and teach students to analyse the social and distributional impacts of policy and planning decisions.

101867.2 The Ethical Life

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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This unit introduces students to time-honoured ethical questions and controversies. The issues to be examined point to questions that students are likely to face at some stage during their lives: Is death always a bad thing? Is abortion immoral? Are we obligated to give to charity? Should we be vegetarian? Should you have sex outside of a committed relationship? Is ethics founded upon religion, reason or community standards? As well as examining specific issues, students will be introduced to the leading secular and theistic ethical theories.

102507.1 The Gothic

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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This unit examines the emergence and development of Gothic literature in English. It studies the rise of Gothic fiction in the late-eighteenth century, and the evolution of Gothic genres in the nineteenth and twentieth centuries. Students will examine key works of Gothic poetry and narrative fiction – such as vampire narratives – in order to consider the social, political and intellectual contexts for Gothic literature. The unit considers how Gothic forms negotiate cultural anxieties, such as those involving race, gender, sexuality, religion, scientific development and class. Set texts from the twentieth century onwards may include works from television, theatre and film.

401184.1 The High Risk Foot

Credit Points 10 **Level** 4

Assumed Knowledge

All core units are assumed knowledge - 400868 Human Anatomy and Physiology 1, 400869 Human Anatomy and Physiology 2, 300574 Neuroanatomy 400981 Clinical Pharmacology, 400138 Pathophysiology 1

Prerequisite

401180.1 Musculoskeletal Disorders and Imaging AND **400933.2** Podiatry Pre-Clinical AND **400138.3** Pathophysiology 1

Corequisite

400929.2 Podiatric Practice 1

Incompatible Units

400941 - Podiatric Techniques 3C

Unit Enrolment Restrictions

Students must be enrolled in 4708 Bachelor of Podiatric Medicine and 4709 Bachelor of Podiatric Medicine (Honours). This unit builds on previous podiatry specific clinical and theory units

Special Requirements - Essential Equipment

Copy of neurological and vascular handbooks issued in podiatry preclinical.

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The unit builds on fundamentals of pathophysiology and podiatry specific units to understand and manage the impact of systemic disease on foot health. The unit specifically investigates pathology associated with the 'high risk foot' including lower extremity manifestations associated with vascular, endocrine, neurological pathology and immunosuppression. This unit aims to develop comprehensive, coherent and connected knowledge to assist making informed decisions and contribute to sustainable change and improvements in health care for people with systemic disease, with particularly emphasis on diabetes and wound management.

101782.2 The History and Politics of Contemporary Central Asia

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit will introduce students to the contemporary history and politics of Central Asia. With the collapse of the Soviet Union, the region of Central Asia (encompassing Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, and Uzbekistan) has reclaimed its importance as a political, economic, and cultural region. Located in a key geo-strategic position between Russia, China, South Asia, and Iran, and with extensive natural resources (especially oil and gas), the region has attracted significant policy and popular attention. The aim of this unit is to introduce students to key domestic and regional issues affecting Central Asia. The unit will look at the historical legacy of

Russian and Soviet regimes, the broad effects of post-Soviet independence, the politics and economics of state-building, and the roles played by international actors and organizations. The unit will also examine how government efforts to build states, nations, and economies historically and recently have influenced societal institutions, such as Islam, community groups, and gender relations.

102491.1 The History of Southeast Asia

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit introduces students to the history of Southeast Asia, and to the major ideas and debates pertaining to the historical development of Southeast Asia as an important and distinctive world region in its own right. The course will examine the historical, cultural and religious factors that have shaped Southeast Asian societies, from antiquity to the modern era. Key topics include the origins and characteristics of early civilisations, traditional patterns of state formation, global trade networks and European imperialism, popular resistance and the nationalist challenge to the colonial order, decolonisation in Cold War Southeast Asia, and nation-building in the twentieth century.

102584.1 The Image of Thought: Art, Film and Philosophy

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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Working on the assumption that art is capable of exploring philosophical issues in its own right, the unit considers how various arts from poetry to contemporary film help shape our understanding of things like metaphysics, epistemology, ethics and morality.

101783.2 The International Relations of the Middle East Since 1945

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit offers a historical study of the international relations of the Middle East from 1945 to the present. It examines the relations of Middle Eastern states to global structures of power; the pattern of relations between regional states; the causes of regional wars and international co-operation; the impact of domestic factors on the foreign policy of states; the importance of oil to international politics and the global economy; and the role of ideologies and non-state forces in international relations and between states in the Middle East.

101757.2 The Making of the 'Aborigines'

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit is available to all undergraduate students who have open electives. The Making of the 'Aborigines' explores the complex human relations and historical forces that have constructed Australia's indigenous people as 'Aboriginal' and/or 'Torres Strait Islander'. It will involve a critical examination of a range of contemporary social and political issues impacting on and being engaged by Indigenous people. A more comprehensive understanding of the position of Indigenous people in contemporary Australian society will enable students to engage more effectively with Indigenous people.

200098.3 The Markets of Asia

Credit Points 10 **Level** 3

Prerequisite

200911.1 Enterprise Innovation and Markets

Equivalent Units

61751 - Regional Market Study (Asia)

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Markets of Asia focuses on internationalisation and global competitiveness of organisations in the Asian region. The unit also encourages an appreciation of cultural diversity, and develops students' knowledge and skills so that upon completion of this unit, they will understand the relevant business practices needed to be responsive to enterprise opportunities and threats within this global community.

101795.3 The Musical

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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The Musical will involve the examination of the history and development of the stage musical in its social and cultural context. The unit will also explore the structure of the musical as a 'text' and performance genre, looking closely at narrative structure, the structure of songs and the construction of character types and interaction. 'The Musical' will also involve students in the critical analysis of the representation of gender and race in the stage musical.

100893.4 The Novel

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit explores the status and success of the novel as the dominant modern literary form. It examines aspects of the history and development of the novel from the seventeenth century up to the present, along with a range of novelistic texts from one or a number of literary traditions: from classic British and/or American texts to contemporary postcolonial fiction; from the search for the mythical "great Australian novel" to famous and not-so-famous works in languages other than English.

102552.1 The Politics of Australian Music

Credit Points 10 **Level** 2

Equivalent Units

101084 - Contemporary Arts 3: Politics and Communities, 101528 - Modes and Codes of Music Production

The unit explores the histories and politics that have shaped the development of Australian music from 1788 to the present day. It critically engages with the historical narrative that perpetuates the dominance of white, post-settler composers and musicians, asking what mechanisms have given rise to some music becoming silenced. How have post-settler musicians approached indigenous music as a challenge that is both aesthetic and ethical? In what ways does the diverse make-up of the Australian population since the mid-twentieth century erode the sharp distinction between the indigenous and the non-indigenous populations in music? Completing this unit will teach students how to critically evaluate Australian music history, to recognise the power of the dominant historical narrative, and to question the assumptions on which it is based. The unit is framed by Attali's theory of noise, which shows how the production, performance, and consumption of music are linked with power and order in society, and introduces Bourdieu's field theory.

102005.1 The Politics of Civilisation

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

What is civilisation? What are civilisations? What does it mean to be civilised? What does it mean to be uncivilised, barbaric or savage? These are some of the key questions explored in this unit. We will investigate the normative demands of civilisation, from 16th Century European colonial 'civilising missions' to the 21st Century global war on terror. We will explore the history of relations between civilisations in light of the 'clash of civilisations' thesis, including relations between the Western and Islamic worlds. We will discover the power of ideas and the influence they can have on real world policy-making.

101911.2 The Qur'an: An Introduction

Credit Points 10 **Level** 2

Prerequisite

[101462.2](#) Understanding Islam and Muslim Societies

Equivalent Units

101464 - Great Texts of Islam: Qur'an and Hadith

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

This unit is an introduction, in English translation, to the most important text of Islam, the Qur'an, which Muslims regard as the primary source of Islam. Students will study: the origins of the Qur'an, its overall structure and content, major themes, approaches to its interpretation, and its function in Muslim religious, social, cultural and political life. The themes and topics covered (such as God, ethics, women, state, inter-faith relations, and violence) should assist students in understanding contemporary debates on the relevance of Islam today.

101990.1 The Racial State

Credit Points 10 **Level** 2

Equivalent Units

100273 - New Ethnicities, Old Racisms

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

Racism is often thought of as both primordial and pathological. Racist states, such as Apartheid South Africa or Nazi Germany, are usually considered to be exceptions rather than the rule and mainly a thing of the past. This unit examines the ways in which, despite the challenge to racism, race remains a fundamental organising idea in modern western states, one that has a direct affect on our everyday realities. We will examine how race is reproduced through politics, culture, socialisation and economic structures. We will consider the effects this has on individual and societal lived experience in complex post-immigration, postcolonial societies.

200915.2 The Service Enterprise

Credit Points 10 **Level** 2

Assumed Knowledge

Students should have a foundation knowledge of business markets and enterprise structure.

Equivalent Units

200376 - Managing and Developing Careers, 200914 - Working in Professions, 200090 - Marketing of Services

Unit Enrolment Restrictions

Successful completion of 60 credit points.

Modern economies are increasingly service-based. Knowledge and skills in the field of services are required by people operating across various industries and in a range of roles. Business graduates will either work for firms whose central offering is service or be employed by organisations that use service as an integral supporting element in what they do and what they offer. The unit aims

to expose students to relevant theory and practices in order to develop their abilities for potential career opportunities in a service environment.

102042.1 The Sound of Language

Credit Points 10 **Level** 1

Incompatible Units

101873 - The Sound of Language

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The richness of information conveyed through spoken language owes its form to the combination and recombination of a small number of sounds. In this unit, students will learn the sounds of the world's languages (phonetics) and the ways in which they are combined to build words (phonology). Examples will be drawn from English, Australian Aboriginal languages, and a diverse range of languages spoken around the world. The unit includes an overview of Australian English phonetics and phonology.

101880.1 The Space of Literature

Credit Points 10 **Level** 3

Assumed Knowledge

An idea of the genre of the English novel and a history of imperialism.

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit considers philosophies of writing by 'drilling down' through the work of one philosopher or through a survey of philosophers. Philosophies of writing are found in the thinking of the Sophists, Classical Greek philosophy, Continental philosophy, as well as in the work of philosophers of new media. The focus upon philosophies of writing is to develop student's understanding of the pragmatic and performative nature of writing and with that the question of ethics in relation to creative writing. These are important concepts to advanced literary theory inquiry and will be tackled in this unit in depth.

201000.1 The World of Sport Business

Credit Points 10 **Level** 1

Equivalent Units

200705 - The World of Sport Management 400319 - Sport Management 1 200564 - Introduction to Sport Management

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The World of Sport Business offers students a contemporary view of sport organisations which are uniquely situated within fluid and emergent social, cultural and political environments and necessitate unique/different managerial approaches. Students will explore key issues within the domestic and international sport management field including, but not limited to, sport professionalisation and commodification, globalisation and sport for development. Students will be introduced to sport leadership theories and practice, sport and its management as a context for ethical analysis, and approaches to sport

marketing and promotions in the contemporary sport business context.

102615.1 Theoretical Philosophy

Credit Points 20 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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Theoretical Philosophy focuses on theories of knowledge, theories of being, and systems of thought. While it is traditionally described under the heading of epistemology and metaphysics, theoretical philosophy should be more broadly understood as devoted to philosophical investigations into the underlying systems, theories, and presuppositions upon which any account of the world, experience, or even truth has been built. This unit will be devoted to an explication of either thematically related theoretical investigations, such as, for example, '17th-century theories of matter,' or 'the nature of language,' or it will focus instead on one central philosophical figure, e.g., 'Plato's metaphysics of the soul,' 'Kant's system of transcendental idealism,' etc.

102001.1 Theories and Methods of History

Credit Points 10 **Level** 3

Assumed Knowledge

Students are expected to have completed prior study in either the History and Political Thought or Modern History majors and to understand the conventions of essay writing and referencing in history.

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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In this unit we consider the nature of historical inquiry by looking at ways in which historians have theorised about history, and at debates about the meaning of historical truth and knowledge. We consider a wide range of historical approaches and methodologies, and read some of the discussions among historiographical theorists and philosophers. We also consider the challenges posed by particular kinds of sources. Students will have the opportunity to develop their own essay project with guidance from teaching staff.

101913.1 Theories of Authority

Credit Points 10 **Level** 3

Equivalent Units

101665 - Politics and Religion

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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The unit will trace the idea of authority in the West back to its genesis in Ancient Greece and track its development in modern thought. The aim is to demonstrate the variegated relation between power, law and revolution by closely

examining a wide array of texts in a variety of disciplinary fields, including literature.

100969.2 Theories of Conflict and Violence

Credit Points 10 **Level** 3

Equivalent Units

100288 - Theories of Violence and Conflict

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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Why do humans kill? What is the nature of war? This course is a selection of different established theories offering explanations of human violence and social conflict. Both theories of individual violence and aggression, and collective conflict are studied to give students a perspective on the forces behind these phenomena. Theories from politics, philosophy, psychoanalysis, sociobiology, sociology, and cultural studies are introduced to exemplify the classic positions and lines of reasoning. These are used to question and explain current forms of violence and conflict, and to give students better understanding of the issues behind attempts to forestall, manage or end conflict.

102176.1 Theories of Difference and Diversity

Credit Points 10 **Level** 7

Assumed Knowledge

Undergraduate degree in the Social Sciences or equivalent.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit will introduce students at post-graduate level to contemporary theories and concepts of difference and diversity. The unit will particularly examine feminism, post-structuralism, new materialism, queer theory and critical realism. It will also address specific concepts such as inequality, human rights, freedom and marginalisation. It will apply these theories and concepts to investigations of contemporary social issues and debates related to race, disability, ethnicity, sexuality, gender and other categories of individual identity and collective belonging. The unit will provide a strong theoretical base to the work that students have undertaken in the unit Theories for Critical Practice, and inform the work to be undertaken in the other units in this specialisation.

400254.2 Therapeutic Recreation Professional Project

Credit Points 10 **Level** 3

Prerequisite

400863.1 Foundations of Research and Evidence-Based Practice AND **400252.1** Workplace Learning 2 (Community Placement)

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The aim of this unit is for students to apply their knowledge of professional theory, practice, research and evaluation

skills to the investigation of a therapeutic recreation professional issue. Emphasis in the unit is on the development of a research/evaluation proposal through literature review and research design outline of a program with a proposed method of evaluation suitable for use in a community setting.

300759.1 Thermal and Fluid Engineering

Credit Points 10 **Level** 3

Prerequisite

300762.1 Fluid Mechanics AND **300760.1** Thermodynamics and Heat Transfer

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The unit provides an understanding of thermo-fluid principles and their engineering applications involving thermal processes and energy conversion. Laminar, , turbulent and compressible fluid flows are discussed. Fluid-structure interactions, buoyancy driven flows and other special thermal and fluid engineering topic are also covered. Basic computational techniques to solve thermodynamics and fluid flow problems are introduced. The theories learned in classes will be reinforced in laboratory sessions and through assignments and tutorials.

300760.1 Thermodynamics and Heat Transfer

Credit Points 10 **Level** 3

Prerequisite

200238.1 Mathematics for Engineers 2 AND **300963.1** Engineering Physics OR **300464.2** Physics and Materials

.....

This unit introduces students to the fundamentals of thermodynamics and heat transfer. The unit covers the properties of thermodynamic systems, laws of thermodynamics, energy, work and heat, entropy, reversible and irreversible processes, power and refrigeration cycles, heat conduction, natural and forced convection, radiation heat transfer, heat exchanger.

102571.1 Thinkers That Changed the World

Credit Points 10 **Level** 2

Equivalent Units

102415 - Key Philosophers, 101914 - Case Studies in Philosophy: Thinker

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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This unit involves detailed study of a thinker whose work has had a significant influence on how we understand the world. The unit will focus on the thinker's important primary texts, and any other writings that aid an understanding of their contribution to philosophical tradition, ethics, politics, and culture in general. Students will study how the philosopher's ideas have been original, and influenced others to see the world and themselves in new ways. A different philosopher will be the focus of study each year. Thinkers that may be studied in depth include Plato,

Aristotle, Hume, Locke, Spinoza, Kant, Kierkegaard, Hegel, Marx, Nietzsche, Arendt, Foucault, Derrida and Girard.

301108.1 Thinking About Data

Credit Points 10 **Level** 1

Assumed Knowledge

2 Unit High School Mathematics.

Special Requirements - Essential Equipment

Students require access to a computer.

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This Unit covers basic concepts of data centric thinking. The main areas discussed are; Populations and Samples; Sampling concepts; Types of Data; Descriptive Methods; Estimation and Inference; Modelling. The Unit takes a computational and nonparametric approach, before briefly discussing theoretical concepts and distribution theory.

101989.1 Thinking Cinema

Credit Points 10 **Level** 2

Equivalent Units

101856 - Film and Philosophy

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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Through close examinations of key philosophical and theoretical writings on film, this unit considers the many ways in which cinema has been 'thought' throughout its short history. Incorporating ontological, phenomenological, psychoanalytic, poststructuralist, cognitivist and other approaches, the unit explores the ways in which key philosophical and theoretical concepts have been taken up and addressed by film, in addition to considering the ways in which cinema can be seen to 'think' for itself.

300739.2 Timber Structures (UG)

Credit Points 10 **Level** 4

Prerequisite

300733.2 Introduction to Structural Engineering

Corequisite

300732.2 Structural Analysis

Equivalent Units

85015 - Timber Structures (UG)

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Students learn about the engineering properties of timber and assess it as a construction material. Design methods based on structural mechanics are covered including the design of members and connections.

300893.1 Topics in Medical Science

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Students must be enrolled in 3673 Bachelor of Medical Science, 3674 Bachelor of Medical Science (Nanotechnology) or 3682 Bachelor of Medical Science (Advanced) or 6002 Diploma in Science/Bachelor of Medical Science. Successful completion of 80 credit points at Level 2 or 3.

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This unit builds on the content and concepts developed across multiple discipline areas during the Bachelor of Medical Science, integrating them together into the context of human health and disease. Students will work in groups to undertake an in depth exploration of an issue related to Medical Science. Topics addressed each year will vary, and will include issues currently at the forefront of Medical Science, issues for which there is currently significant scientific debate, and issues in which students have expressed a particular personal interest.

300819.1 Topics in Physiology

Credit Points 10 **Level** 3

Prerequisite

300818.1 Introduction to Physiology OR **300838.1** Comparative Physiology OR **300851.1** Advanced Physiology

Equivalent Units

300756 - Topics in Physiology

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This unit builds on the physiological concepts of "Introduction to Physiology". It provides a greater depth and breadth of understanding of aspects of whole-body physiology which are explored in group work. Topics may include, but are not limited to, locomotion, physiology of reproductive technology, physiology of interaction between humans, physiology under extreme conditions (including pathophysiology), physiology of learning and memory, sleep physiology, animal physiology, nutritional physiology and others.

102383.1 Topics in the History of Philosophy

Credit Points 20 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit surveys selected philosophers or philosophical movements in the history of philosophy, and of the relevance of such philosophical perspectives for contemporary debates. The unit will include a selection of material that will give students a deeper understanding of the history of philosophy from Ancient Greece to the present day.

200008.5 Torts Law

Credit Points 10 **Level** 2

Prerequisite

200977.1 Fundamentals of Australian Law

Corequisite

200978.1 Legal Analysis and Critique

Equivalent Units

69030 - Torts Law, F1004 - Torts, LW302A -Torts Law

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The unit introduces students to the legal principles and policy of a variety of torts, defences and remedies. The unit also introduces students to the generic legal skills of case reading, analysis and note taking, statutory interpretation and legal problem solving, as well as placing the law in the wider political and social context.

101901.1 Tourism and Global Trends

Credit Points 10 **Level** 1

Equivalent Units

101603 - Tourism Sustainability and Global Trends

Incompatible Units

101274 - Sustainable Tourism in Practice, 101273 - Managing Tourism

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This unit introduces students to the foundational knowledge and skills required for tourism study at UWS and professional practice in a range of tourism related careers. This unit provides students with opportunities to familiarise themselves with the core concepts and basic theory of tourism management studies. It aims to equip students with an understanding of sustainable tourism, the tourism system, and mega trends of tourism. It covers the global complexity of the tourism industry; of the social, environmental, and political realities; and the role of governments – federal, state and local together with private enterprise in the development of tourism experience, industry practice, and destinations.

101598.4 Tourism in Society

Credit Points 10 **Level** 2

Equivalent Units

700053 - Tourism in Society (UWSC);, 101275 - Tourism in Contemporary Society, EH210A - Tourism Issues and Change.

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In this unit students approach tourism as a cultural and social phenomenon and tourism industries, tourist behaviour, the tourist experience and tourism impacts are examined through a socio-cultural lens. Considering tourism as an agent of social change, the unit explores the interplay between tourism, mobility and globalisation, tourism and development, and tourism and world events. The unit will also unpack some of the common motivations for leisure travel, explore the role of tourism in everyday life,

and examine the interconnections between the media, consumer culture, visual culture and the tourist experience.

101904.2 Tourism Policy and Planning

Credit Points 10 **Level** 3

Equivalent Units

101277 - Tourism Policy and Planning, 101602 - Recreational Tourism Policy and Planning

Incompatible Units

H2103 - Tourism Policy and Planning, 300509 - Recreational Planning towards Sustainable Tourism, EH221A - Sustainable Tourism and Recreational Planning

Unit Enrolment Restrictions

Successful completion of 80 credit points

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This unit gives students a general understanding of planning theory as it relates to sustainable tourism policy and practice. Students will apply this knowledge to tourism sites, facilities and activities in Sydney with a major assignment focusing on Sydney Olympic Park. A self-guided field trip enables students to apply and understand various planning techniques, tourism policies, scenario mapping strategies and consider conflict resolution practices. Students will present their ideas by integrating quantitative and qualitative data, both in teams and individually. At the conclusion of this unit students will have the skills to apply planning theory to an analysis of tourism policies, sites, facilities and activities in a global city such as Sydney.

300877.1 Toxicology

Credit Points 10 **Level** 2

Equivalent Units

300627 - Toxicology

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Toxicology is the study of toxicants or poisonous substances: their nature, effects on the human body, and on human, animal and plant populations. Poisonous substances have been used by humans from antiquity for both beneficial and malevolent purposes and today a vast array of toxic industrial chemicals are produced. Both accidental (workplace and environmental) and intentional (forensic) exposure are covered, in terms of group properties, chronic and acute, toxicity, exposure potential, health impact and intervention are presented through forensic case studies. Students carry out a toxicology audit of an operation or premises of their choice.

400346.2 Traditional Chinese Medicine 1

Credit Points 10 **Level** 1

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This unit provides a comprehensive introduction to traditional Chinese medicine (TCM). Students are introduced to basic TCM theory, and the physiological principles of the diagnostic system that forms the basis of TCM practice. The history and philosophy of Chinese medicine is introduced and discussed in the light of contemporary clinical practice.

400352.3 Traditional Chinese Medicine 3

Credit Points 10 **Level** 2

Prerequisite

400348.2 Traditional Chinese Medicine 2

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This unit enables students to develop a sound understanding of causes of disease in TCM with a particular focus on TCM disease pattern differentiation. Students will be able to identify the clinical manifestations relating to specific patterns and develop the appropriate TCM treatment principles. This is complemented by the reinforcement of skills in case history taking and TCM diagnostics.

400354.3 Traditional Chinese Medicine Practice 1

Credit Points 10 **Level** 3

Prerequisite

400352.2 Traditional Chinese Medicine 3

Corequisite

400873.1 Acupuncture Techniques AND **400878.2** Chinese Medicinal Formulas

Unit Enrolment Restrictions

Students must be enrolled in 4660 Bachelor of Health Science-Master of Traditional Chinese Medicine or 4710 Bachelor of Traditional Chinese Medicine to be able to enrol in this unit.

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This unit is focused on introductory clinical practice in a clinical setting. It enables the students to link theory with practice. It expands the students' knowledge base of Chinese medicine theory and diagnosis, and the application of acupuncture and Chinese herbal medicine treatment. Students assist with clinical practice, take consultations, and perform basic acupuncture related techniques. Students will also learn basic skills in handling herbal preparation and dispensing. This unit includes mandatory clinical placement

400356.2 Traditional Chinese Medicine Practice 2

Credit Points 10 **Level** 3

Assumed Knowledge

Assumed knowledge and experience equivalent to Traditional Chinese Medicine Practice 1.

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This unit is focused on clinical practice in a clinical setting. It enables the student to link theory with practice. It expands the students knowledge base of acupuncture and Chinese herbal medicine, as well as TCM theory and diagnostics. Students facilitate clinical practice and perform a wide range of acupuncture and related techniques, in addition to basic herbal prescribing.

401101.2 Traditional Chinese Medicine Practice 3

Credit Points 10 **Level** 4

Prerequisite

400356.2 Traditional Chinese Medicine Practice 2

Incompatible Units

400920 - TCM Practice 3 (PG) AND 400359 - TCM Practice 3

Unit Enrolment Restrictions

Students must be enrolled in 4660 Bachelor of Health Science-Master of Traditional Chinese Medicine or 4710 Bachelor of Traditional Chinese Medicine to be able to enrol in this unit.

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This unit represents a continuation of the clinical practicum and development of clinical skills in relation to patient management and TCM health preservation and enhancement, including lifestyle, diet and physical exercise. Students will also be able to apply their knowledge of professional theory, practice, research and evaluation skills to the investigation of TCM problem. Students will be expected to demonstrate competence in handling patients in a clinical context, synthesise knowledge from their studies of specialities in Traditional Chinese Medicine and critically examine the practical aspects of acupuncture and Chinese herbal medicine research. This unit includes mandatory clinical placement

401105.2 Traditional Chinese Medicine Practice 4

Credit Points 10 **Level** 4

Prerequisite

401101.2 Traditional Chinese Medicine Practice 3

Incompatible Units

400924 - TCM Practice 4 (PG) AND 400362 - TCM Practice 4

Unit Enrolment Restrictions

Students must be enrolled in 4660 Bachelor of Health Science-Master of Traditional Chinese Medicine or 4710 Bachelor of Traditional Chinese Medicine.

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This unit represents a continuation of the clinical practicum and development of clinical skills. Students will integrate theoretical knowledge, practical and research skills, learnt in previous units, into clinical practice, including in: case investigation; diagnosis; formulation of treatment strategies; and the delivery of treatments to patients. Students will learn to act ethically in professional contexts. Students are expected to demonstrate professional competence in handling patients in a clinical context, critically evaluating complex cases, diagnosing, devising and managing the patients using TCM therapies.

101658.1 Transformative Learning

Credit Points 10 **Level** 7

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This unit provides opportunities to examine and apply theories drawn from critical pedagogy, transformative learning and ecological thinking. It challenges students to critically examine the relationships through which personal and social knowledge is constructed and their efficacy in the construction of learning for the future. Inherent in such thinking are questions about the processes of change in education systems that will lead towards equity, inclusiveness, wellbeing, social justice and ecological sustainability.

102180.2 Translation from Theory and Research to Policy

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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The focus of study in this unit is on policy-making and implementation and the place of theory and research in policy formation. In the first part of the unit students explore the nature of public policy – addressing constructs of policy and policy-making and approaches to analysing public policy. The political and social practices of policy-making and implementation in Australia are contextualised and examined at the local, national and global levels. The second part of the unit takes examples of policy-making in the field of social sciences and examines the role of theory and research in the problematisation of issues and identification of solutions. The identification of competing interests, relations of power and key players in understanding, analysing and responding to policy and its outcomes will be undertaken.

102198.1 Transnational Crime

Credit Points 10 **Level** 7

Assumed Knowledge

Undergraduate degree in criminology, criminal justice or a related social science area, or equivalent.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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In traditional criminology crimes have been understood as acts that breach the criminal code of a given nation state. By contrast, transnational crimes are defined as violations of law that embrace more than one nation in their planning, operation or impact. These crimes often have a much broader (though often veiled) relation to serious individual and collective social harm and can be especially difficult to prevent or investigate and prosecute. Students will be expected to understand the global and regional developments that foster transnational crime, its range and security impacts, and international agreements and conventions as well the new forms of policing developed to counter it.

101848.1 Transnationalism and Migration

Credit Points 10 **Level** 3

Equivalent Units

101687 - Transnational Migration

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit discusses theories of migration, transnationalism, globalisation, diaspora and identity. We examine the experience of migration and settlement, and the transnational cultural forms that emerge in this process. We investigate the role of new means of communication such as the internet in connecting migrants and the homeland. We also analyse how religion supports migrants in the process of homebuilding. Finally, this unit also discusses the descendants of migrant who have 'returned' to the homeland after living abroad for generations. Do they become minorities in their ancestral homeland despite their presumed ethnic similarities with the host population?

101645.2 Transport, Access and Equity

Credit Points 10 **Level** 3

Equivalent Units

400342 - Transport, Access and Equity

Unit Enrolment Restrictions

Successful completion of 80 credit points.

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This unit examines the equity and efficiency issues in the provision of transport in cities and regions from a critical social science perspective. Issues of transport disadvantage and policy and planning responses to improve access to urban services are examined. The social and environmental impact of transport systems are considered in the context of urban management.

300982.2 Transportation Engineering

Credit Points 10 **Level** 4

Prerequisite

300738.3 Surveying for Engineers AND **300984.1** Pavement Materials and Design AND **300983.1** Surface Water Hydrology

Incompatible Units

300486 - Infrastructure Engineering

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This unit provides students with the course material that will assist them with the execution of Civil Engineering Construction and Urban Development / Town Planning projects. The unit mainly focuses on the planning, design and construction of transportation facilities for urban and rural areas. Students will have an opportunity to implement the skills learnt using a case of a subdivision development.

401071.2 Traumatic and Environmental Emergencies

Credit Points 10 **Level** 3

Assumed Knowledge

First and second year of the BHSc (Paramedicine)

Prerequisite

401069.1 Paramedic Practice 4

Unit Enrolment Restrictions

Students must be enrolled in 4669 Bachelor of Health Science (Paramedicine).

Special Requirements - Essential Equipment

Students are expected to have a complete Western Sydney University student paramedic uniform including: Helmet, Boots, Belt, Hi-visibility wet-weather gear (jacket and pants), Cargo pants, Long-sleeved shirt, Jumper, Hi-visibility vest, Cap, Safety glasses, Students are expected to have their own stethoscope.

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This unit deals with pathophysiology and pathogenesis of traumatic injuries and environmental emergencies as well as safe and effective out-of-hospital management of these patients. Best patient outcomes are achieved when out-of-hospital care forms part of a trauma system. Paramedics are required to make decisions to achieve the provision of the right care and transfer to the right hospital in the right time. This applies to both, the single-patient incident and the mass casualty situation. This unit aims to develop the knowledge and skills to safely and effectively manage the patient(s) suffering traumatic injury or an environmental emergency. Furthermore, the unit aims to prepare the paramedic student to be part of a major incident response.

101983.1 Truth and Knowledge

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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Attaining knowledge and defining truth are fundamental concerns for all university studies. Philosophy has a long history of explaining what constitutes truth, and how we know what counts as legitimate knowledge. This unit introduces students to the most important conceptions of truth and knowledge, and explains the fundamental methods of reasoning and testing knowledge claims established through the Western philosophical tradition. It should be useful to both students specialising in philosophy, and those interested in discovering more about how knowledge is justified and standards of truth established.

101999.1 Twentieth Century Australia

Credit Points 10 **Level** 3

Equivalent Units

100986 - Australian History since 1860 - 1920, 100987 - Australian History since 1920

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This survey unit provides an overview of major events in Australian political, cultural and social history of the twentieth century. The unit will examine key events such as World Wars and the Great Depression, but will also discuss broader changes that affected Australians, black and white, male and female, rich and poor. In doing so, it will examine some of the ideas and political movements that dominated twentieth century Australia, including class politics, feminism, imperial loyalty, indigenous politics, nationalism, racism and sectarianism.

101798.2 Understanding Freedom

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points

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"Understanding Freedom" consists of a close analysis of major theories of freedom from ancient times to the contemporary world. It explores the relation between freedom and imprisonment, freedom and politics, freedom and the everyday, as well as the way that freedom informs the production of culture.

101462.2 Understanding Islam and Muslim Societies

Credit Points 10 **Level** 1

Equivalent Units

700160 - Understanding Islam and Muslim Societies (WSTC)

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This is an introductory level unit that forms part of the Islamic Studies major. The unit will contribute to the development of sound disciplinary expertise in the academic study of Islam – historical, anthropological, and sociological. The unit will familiarise students with critical approaches to the study of Islam that touch on its origins and development, formation of traditions, social structures and institutions as well as familiarising students with issues regarding Islam in the Western context. The unit will assist students to develop cross-cultural awareness and interaction, communication and interpersonal skills, inventiveness and a capacity for independent thinking and analysis and problem-solving skills.

300812.1 Understanding Landscape

Credit Points 10 **Level** 1

Equivalent Units

300642 - Understanding Landscape, HT103A - Understanding Landscape

Special Requirements - Essential Equipment

Enclosed footwear

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This unit explores the historical and cultural perceptions and perspectives of the term 'landscape' and the sustainability and management of landscapes. Students become familiar with the terminology and concepts surrounding the natural landscape experientially through a series of field trips and develop an awareness and appreciation of both of the conceptual and actual landscape issues. Skills in mapping and spatial awareness skills and technologies will be developed through field trips and workshop sessions including GIS. Such skills will assist in developing a capacity to comprehensively describe and analyse the landscape.

101731.3 Understanding Power

Credit Points 10 **Level** 3

Equivalent Units

100970 - Understanding Power

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit aims to explore contemporary understandings of power and its various manifestations in the modern world. Numerous themes are considered including informal and formal mechanisms of power, the uses and abuses of power, resistance, plus various examples of "powered" sites. The unit examines the relation between power, violence and the state. The unit concentrates on a few, influential theorists of power. Particular attention is paid to how power has an impact on the production of culture.

102601.1 Understanding Race

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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What is race? What is racism? How are they related? Why do they continue to shape social, political and economic relations well after the biological concept of race was disproven? What are the links between race and colonialism and in Australia particularly, the invasion and settlement of Aboriginal land? How is race related to property? How do ideas of race become embedded in state institutions and why do they continue to shape disadvantage and inequality? Though race develops differently in different contexts, it is best thought about through relational readings that draw out both the differences but also the similarities between places and times. This unit will draw on race critical and decolonial texts to focus on race as a modern idea that is shaped in the contexts of colonialism, slavery, and persists in post-immigration multicultural societies.

101979.1 Understanding Visual Culture

Credit Points 10 **Level** 1

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Visual media are a major feature of everyday life in contemporary society. The circulation of images shapes our

sense of who we are individually and collectively; how we move through the world; and the possibilities that exist for enacting social change. This unit introduces students to the histories and theories of visual culture, from painting and photography, through cinema and television, to digital media, including social media and user-generated content. Students will gain practical skills in analyzing visual and audiovisual texts as well as a comprehensive understanding of the role of visual culture in the production and maintenance of power relations. These skills are crucial to engaging critically with contemporary culture.

101866.1 United States Government and Politics

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit provides an overview of the major institutions and branches of the United States government. It draws attention to the interaction between the ideas that have been articulated by American social and political movements, and the institutions and goals of the American government as they have unfolded over time.

300860.1 Urban Environment

Credit Points 10 **Level** 3

Equivalent Units

300789 - Urban Environment

Incompatible Units

LW212A - Environmental Health Law; 300471 - Urban Development Systems; 300704 - Healthy Built Environments

Unit Enrolment Restrictions

Successful completion of 120 credit points

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This unit explores the relationships between community, the natural environment and government within an urban context through considering how housing and urban development can influence population health. Concepts explored include "healthy housing", "active living" "safety by design" and "energy efficiency". Through a combination of case studies and practical field experience, students will develop the skills and knowledge appropriate to assessing the "healthiness" and sustainability of urban environments. The unit examines methods of construction and building regulation aimed at the preservation of health and amenity.

100291.5 Urban Life/Urban Culture

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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Big cities can be frantic, difficult, polluted and often dangerous places in which to live. Yet cities also contain

possibilities for social and cultural stimulation not available elsewhere. This unit traces the origins and development of modern cities in all of their complexity. It looks at how industrial cities emerged in Europe and Australia, and at the threat that uncontrolled urban growth posed to social order. We examine the conditions of urban life that promote alienation and anonymity, and how people overcome social fragmentation. There is discussion of modern cities - from those that sprawl, like Sydney, to the relatively compact and dense centres of Europe, the north-eastern United States and Asia. We look at the gendered nature of public space, and how class and ethnic tensions are played out in cities. Students read a range of texts on urban culture and society. These include classic works by writers like Friedrich Engels, George Simmel and Walter Benjamin, to the contemporary work of David Harvey, Richard Sennet and Mike Davis.

101314.3 Urban Management Practice: Governance and Power in the City

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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Governance is a central but often overlooked issue in Urban Management. What is governance? What are the principles of good governance? What are some of the governance challenges in major metropolitan cities that cover multiple jurisdictions? How do statutory local governments engage with specialist state agencies in fields such as economic development, environmental planning, and infrastructure planning? This unit answers these questions, reviews governance practices in major cities across the world and provides students with knowledge of key governance tools. Students will prepare a research report dealing with a significant urban governance challenge, and provide recommendations about how to implement solutions to that challenge. The central objective of the course is to provide students with a sound framework and set of tools with which to address governance issues.

300861.1 Vertebrate Biodiversity

Credit Points 10 **Level** 3

Prerequisite

300802.1 Biodiversity

Equivalent Units

300217 - Animal Form & Function; 300470 - Vertebrate Biodiversity

Special Requirements - Essential Equipment

A laboratory coat, glasses and fully enclosed shoes are required for practical sessions in the laboratory. Field-based practical work requires appropriate clothing and enclosed shoes. Students require use of a computer with access to the Internet and software allowing word processing, data processing and statistical analysis and graphical representation.

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This unit examines the functional ecology and diversity of vertebrate animals (fish, amphibians, reptiles, birds and

mammals). It takes an integrative approach, combining anatomy, physiology, ecology and behaviour, to explain how vertebrates survive and reproduce in relation to their environment. We will uncover the evolutionary relationships among vertebrate groups, and examine their adaptations to different environmental challenges. The unit also explores patterns in vertebrate diversity, with a focus on Australian ecosystems. Students will apply their knowledge of the scientific method to design and conduct their own research project to investigate how environmental factors influence vertebrate animal abundance and diversity.

300862.2 Video Games Development

Credit Points 10 **Level** 3

Assumed Knowledge

Understanding of programming concepts and details of programming. Good programming skills in C#, Java or C++. Knowledge of systems analysis methods including object orientated analysis and design. Basic knowledge of vector algebra, matrixes and fundamentals of mathematics.

Prerequisite

300580.2 Programming Fundamentals

Equivalent Units

300492 - Games Theory and Design

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This unit provides students with an in-depth understanding of the development and structure of game engines. It provides the student with a unifying overview of the many modules that are incorporated in a game engine as well as a detailed examination of game-play and engine programming.

101898.1 Violence in Everyday Life

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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The unit provides an overview of the 'dark side' of human society and culture - violence. It examines how violence shapes, threatens and informs aspects of everyday life at home, work, school, the sports field and the street. Through a series of structured learning activities students engage with a range of documents and images to explore practices and experiences of violence. The role of institutions like the state, churches and sporting bodies in regulating violence will be considered. Students will gain skills in understanding the cultural milieu of marginal groups, languages of power and the emotions of excitement, fear and terror produced by acts of violence, skills useful for effective functioning in the workplace and family. The unit provides skills for honours level research in social and cultural analysis, law and legal studies, criminology, and history and political thought.

102199.1 Violence, Culture and Criminal Justice

Credit Points 10 **Level** 7

Assumed Knowledge

Undergraduate degree in criminology, criminal justice or a related social science area; or equivalent.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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In recent decades, a new wave of racial, ethnic and religious violence and terrorism has been linked to rapid patterns of globalisation and tensions over group and national identities. Specific knowledge about violence and considerations about its real extent, causes and cultural meanings remain uncertain. Yet there is evidence of a recent general decline in violence with a significant role for legal and quasi-legal bodies for acknowledging injury, punishing previously 'deniable' violence and promoting reconciliation. Seminar topics in this course will include the global patterns and forms of violence; individual versus societal and historical explanations; biology, evolution and culture; gender, race and inequality; hatred, genocide, collective identity and psychoanalysis; the role of states and law in countering and condoning interpersonal and collective violence; debates about victimhood and the cultural symbols of violence and its memorialisation.

301109.2 Visual Analytics

Credit Points 10 **Level** 2

Assumed Knowledge

Familiarity with computer software programs, such as Microsoft Office.

Unit Enrolment Restrictions

Students enrolled courses other than the Bachelor of Data Science must have successfully completed 60 credit points.

Special Requirements - Essential Equipment

Access to a Computer.

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This unit introduces the fundamentals and technologies of visual analytics to understand big data. It covers major concepts of information visualisation, human computer perception and methods for visual data analysis. Students will learn knowledge and skills for identifying suitable visual analytics techniques, methods and tools for handling various data sets and applications. The unit provides students with opportunities to explore novel research in visual analytics and visualisation.

102317.1 Visual Effects

Credit Points 10 **Level** 2

Prerequisite

101927.1 Foundations of Media Arts and Production OR
101922.1 Web and Time-based Design

Equivalent Units

102054 - Animation and Visual Effects, 100229 - Principles of Non-Linear Editing

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This unit explores the art and technology of visual effects as applied to digital video production and title design. Students will be introduced to the principles of editing, animation and compositing in order to create effective motion sequences integrated with sound. The unit encourages students to explore the unique properties of digital visual effects production and to experiment with alternative, creative narrative storytelling approaches to this rapidly evolving form of communication. In doing so students will develop critical, conceptual and practical skills within the context of digital visual effects and consider the revolution these emerging technologies have had on the practice of digital media production.

102423.1 War

Credit Points 10 **Level** 3

Incompatible Units

101871 - War

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

.....

Have you ever wondered what war is good for? Edwin Starr thought it was good for "absolutely nothing." This unit will take you on an intellectual journey, around the globe and across history, as you reach your own answer to this question. You will evaluate the norms associated with war as well as the experiences of warriors from ancient through modern times. You will assess the role of militias, armies, navies, and air forces in the broad sweep of history. You will consider nuclear weaponry, terrorism, guerrilla warfare, just war theory, as well as anti-war movements.

101993.1 War and Society in the Twentieth Century

Credit Points 10 **Level** 3

Equivalent Units

100293 - War and Society: 20th Century Australia

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit explores the social and cultural history of warfare in the twentieth century, with a particular emphasis on the experience of 'ordinary' men and women during the First and Second World Wars. Drawing on case studies and scholarship from Australia, Britain and the United States, students will examine a diverse range of topics and themes, including the politics of gender, class and race in wartime; the development of medicine and psychiatry in response to mass casualties; repatriation and reintegration at war's end; and evolving practices of commemorating the war dead.

102142.1 Warlords, Artists and Emperors: Power and Authority in Japanese History

Credit Points 10 **Level** 3

Equivalent Units

100294 - Warlords, Artists and Emperors: Power and Authority in Premodern Japan

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit examines the key institutions and events of Japanese history that have given shape to the modern nation and its distinctive cultural identity. What is the traditional significance of the Emperor and how does it compare with the role of the Emperor since 1868? Who held the power and under what authority? How did this shift over time? What was the relationship between religion and the state? How did the Shoguns come to power? How did art and architecture function in the expression and maintenance of warlord power? What is the connection between the balance of power and urban development in the Tokugawa period? Why is Zen Buddhism now so closely associated with samurai and the arts? These are some of the questions that will be addressed in this unit.

300994.1 Waste Management

Credit Points 10 **Level** 4

Prerequisite

[300737.3](#) Environmental Engineering

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This unit covers sources identification and characterisation of solid and hazardous waste generated from the community. Sustainable management of waste incorporating minimisation, recycle, recovery and disposable options are discussed. Also, atmospheric pollutants and their control, greenhouse gases and their impact on climate change are examined.

300992.1 Water and Wastewater Treatment

Credit Points 10 **Level** 4

Prerequisite

[300737.3](#) Environmental Engineering AND [300765.2](#) Hydraulics

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The unit focuses on design of conventional and advanced water and wastewater treatment unit design using fundamental science and hydraulic engineering principles.

300870.1 Water in the Landscape

Credit Points 10 **Level** 3

Equivalent Units

300779 - Water in the Landscape

Unit Enrolment Restrictions

Successful completion of 120 credit points.

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Many land and water use activities in both urban and rural landscape result in hydrologic changes that have environmental, economic and social consequences. These activities require appropriate management strategies for sustainable water use in catchment. In this unit, the hydrologic cycle will be explored at varying spatial scales in urban and rural contexts. Hydrologic, environmental, economic and social perspectives will be used in the examination of the demand and the use of water.

300814.1 Water Quality Assessment and Management

Credit Points 10 **Level** 1

Equivalent Units

300635 - Water Quality Assessment and Management

Special Requirements - Essential Equipment

Student will need to supply a lab coat and the field trip will involve an early start and possibly a late return to campus (7:30 start and 5:30 return).

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Water is essential for all life on earth. This unit will equip students with skills in biological, chemical and physical water quality assessment for a sustainable water future. The unit introduces students to healthy natural waterways and contrasting degraded waters impacted by disturbance from human activities. A broad range of pollutants, their sources and the consequences for human health and the ecology of water ways will be investigated. Management strategies will also be examined based on the sound scientific assessment of water quality. Students in this unit will cover water quality legislation, regulation, policy, guidelines and develop competencies in water monitoring, regulation, treatment and management.

300993.1 Water Resource Engineering

Credit Points 10 **Level** 4

Prerequisite

[300765.2](#) Hydraulics

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This unit introduces optimisation theories applicable to water resources projects. The unit applies different optimisation models to select the best option available. Engineering economic theories specifically applicable to water resources projects are also discussed.

301012.1 Water Resources Systems Analysis

Credit Points 10 **Level** 7

Assumed Knowledge

Discounting techniques, time value of money, equivalence analysis, present worth analysis, annual worth analysis, benefit-cost analysis, net benefit analysis, rate of return. Fluid properties, hydrostatics, open channel flow analysis, pipe network analysis, analysis and design of hydraulic structures, exposure to surface water hydrology and its components, water quality analysis.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Engineering program undertaking a Civil Engineering specialisation.

Water resources projects are large infrastructure projects requiring huge capital expenditure. In addition, multiple options are usually available to meet the project goals but at different costs and under varying constraints. This unit presents the application of optimisation techniques to select the best project from a list of competing projects. Applications of these techniques to optimally allocate available water resources are discussed. These are presented within the context of maximising the return of investment.

101922.1 Web and Time-based Design

Credit Points 10 **Level** 1

Assumed Knowledge

Introductory level understanding of and skills in design principles particularly basic layout, colour and typographic knowledge. Digital basics including working in a networked environment on a Macintosh computer. Ability to manage, transport and store digital information.

Equivalent Units

101180 - Web and Time-based Design, 700187 - Web and Time-based Design (WSTC)

Special Requirements - Essential Equipment

Digital Storage (USB or external hard drive or DropBox)

Students will develop fundamental computer software skills and design understandings appropriate to using major web and time based design technologies such as HTML and CSS. They will develop a working understanding of production literacies for online design and time-based design. Students will engage in practical studies of web authoring. Emphasis will be placed on understanding the roles, functions and features of key screen based technologies, design production context for online delivery, current industry best practices, and a working understanding of the responsibilities inherent in the digital design and production process.

300583.3 Web Systems Development

Credit Points 10 **Level** 3

Assumed Knowledge

- Fundamental web development skills such as HTML, CSS, Javascript and PHP. - Principles of relational database design and development, practical skills in SQL. - Principles of systems analysis and design including the specification of end-user requirements and a good knowledge of the SDLC and its application to solving computer system related problems.

Prerequisite

300582.5 Technologies for Web Applications

Equivalent Units

300085 Advanced Web Site Development

In this unit students further develop their theoretical and practical skills in designing and developing web based information systems using systems analysis, programming, database, human computer interaction and web technologies skills that they have learnt in previous units. Current web development technologies and/or frameworks will be utilised to build a complex web information system in a collaborative web development team. Techniques of porting web systems to mobile platforms will also be explored.

300902.3 Web Systems Development (Advanced)

Credit Points 10 **Level** 3

Assumed Knowledge

- Fundamental web development skills such as HTML, CSS, Javascript and PHP. - Principles of relational database design and development, practical skills in SQL. - Principles of systems analysis and design including the specification of end-user requirements and a good knowledge of the SDLC and its application to solving computer system related problems.

Prerequisite

300582.5 Technologies for Web Applications

Incompatible Units

300583 Web Systems Development

Unit Enrolment Restrictions

Students must be enrolled in courses 3684 Bachelor of Information and Communication Technology (Advanced) or 3688 Bachelor of Information Systems Advanced.

This unit teaches state-of-the-art web frameworks for developing complex web systems. This unit utilises the skills of basic web programming, database design, and systems analysis that students have learnt in previous units. Major topics in this unit include Cascading Style Sheet (CSS) framework, Razor pages, Model-View-Controller (MVC) programming, object to relational database mapping, and authentication and authorization. Moreover, this unit trains students' collaborative skills by asking students to build a complex website in a small team. As an advanced unit, deeper topics such as custom data validation and error handling will be discussed.

102546.1 Western Art Music History

Credit Points 10 **Level** 1

Equivalent Units

101740 - Music History 1, 102427 - Western Art Music 1

This unit explores a range of musical works, styles, genres and composers from the Middle Ages to the twenty-first century. It shows how music evolved through the centuries, suggesting that stylistic changes are linked to innovative musical thinking on the one hand and conformity to established practices on the other. The unit asks how and why different genres and styles in different periods in

western art music history come to the foreground while others recede into the background. Within a socio-historical context, the unit investigates the practices that produce musical innovation and considers how the various historical epochs have shaped our understanding of music. The unit includes some rudimentary music analysis and key terminologies and music vocabularies.

101912.1 Western Political Philosophy

Credit Points 10 **Level** 2

Equivalent Units

63286 - The Western Philosophical Tradition, 101294 - The Western Philosophical Tradition

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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The major social and political philosophy of the West, from the 5th century BC Greece till the 18th century will be examined. The development of ideas of citizenship, subjectivity, freedom, equality and the democratic state will be explored. The influence of Christianity will also be a major theme. Authors will include: Plato, Aristotle, Augustine, Aquinas, More, Hobbes, Locke, Vico, Rousseau.

102585.1 What is Islam?

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

.....

The 'Muslim question' has been a topic of interest to Western scholarship for over four hundred years. The unit addresses this question in two ways: firstly, by exploring internal historical conceptualisations of the faith-identity of Islam, and examining how these have shaped modern understandings of Islam from within the faith; secondly, by introducing students to multidisciplinary approaches to the study of Islam and inviting them to consider the construction and deconstruction of Islamic Studies as a field of study at various stages of history. The unit provides students with the opportunity to gain increased awareness of both debates within the field and those that scrutinise the field, that is, becoming comfortable with interrogating the cluster of theoretical and methodological strategies for scholarly inquiry into the study of Islam.

101010.3 What is the Human?

Credit Points 10 **Level** 3

Equivalent Units

SS216A - What is the Human?

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit examines theories of human nature from a variety of historical and disciplinary perspectives. It engages with, and encourages the student to evaluate, conceptions of the

human - some of which have had wide currency in the broader culture and some which have not. The unit also engages the idea of whether a unified conception of human nature is tenable at all.

101762.1 Who do you think you are? (Day Mode)

Credit Points 10 **Level** 1

Corequisite

101751.2 Contextualising Indigenous Australia (Day Mode)

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This unit is available to all Undergraduate students who have open electives. Who do you think you are? will provide students practice in the analysis of historical documents, family narratives, autobiography, political and social issues around a project that will give a context for their own personal story. Students will develop skills in oral history work, locating and retrieving archival documents and compiling their own 'family tree'. Students will also develop skills in practising speaking and writing genre appropriate to their own family history. An introduction to the theory of identity and identification will enable students to appreciate the complexities of becoming.

300813.1 Wildlife Studies

Credit Points 10 **Level** 1

Equivalent Units

300425 - Introduction to Wildlife Studies

Special Requirements - Essential Equipment

Students are required to wear closed-in shoes, long pants and long-sleeved shirts in this unit.

.....

This unit involves the study of basic biology, ecology, conservation and management of selected wildlife. Students will learn different management systems and research methods used in the conservation and management of wildlife. The use of wildlife as a sustainable resource will also be analysed within the context of ecological sustainable development and animal ethics.

300952.2 Wireless and Mobile Networks

Credit Points 10 **Level** 3

Prerequisite

300565.2 Computer Networking OR **300946.1** Computer Networking (Advanced)

Equivalent Units

300088 - Broadband Networking

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This unit helps the students gain in depth knowledge in the core concepts and principles in the areas of wireless and cellular networks. It provides them with the technical skills needed to do requirement analysis and evaluate a range of wireless networked systems to plan their institution or expansion. The unit covers the communication characteristics and architecture of wireless systems along with various types of wireless networks, including wireless LANs, personal area networks, sensor networks, mesh

networks, and broadband wireless networks. Given the widespread use of mobile phones and devices, a substantial part of the unit is devoted to the study of cellular networks. The unit also covers mobility management and wireless security issues and solutions. Upon completion of this unit, the students will have the capabilities needed for long term and independent learning in the rapidly evolving area of wireless and mobile networking.

300065.5 Wireless Communications

Credit Points 10 **Level** 4

Assumed Knowledge

Students should have a good understanding of signals and systems, probability and random processes and fundamentals of communication systems.

Prerequisite

300007.2 Communication Systems OR **300997.1** Data Communications

Equivalent Units

300017 - Digital Communication Engineering

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The unit covers the analysis, design and operation of modern wireless communication systems. The primary focus is on the physical layer and hardware, emphasizing the fundamentals of coding and modulation, spread spectrum and multiple access techniques. Current wireless architectures and mobile communication systems are also covered.

101879.2 Women with Muslim Identity

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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An exploration of perceptions of Muslim women and of the meaning and significance of Muslim identity for women today. Students will analyse ways in which Muslim women perceive themselves and are perceived by others in the context of contemporary Islamic revivalism, focussing on differences and relationships among various outsider's and insider's perceptions. A central focus will be the resurgence of the veil in the context of contemporary Islamic revivalism; Students will explore the meanings of veiling in the context of discussions and debates on the role of women, equality and freedom, cultural diversity, religious values and secularity.

101977.1 Women, Travel and Empire

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit enables students to analyse nineteenth-century travel writing within an imperialist context and to interrogate race, gender and subjectivity. We will examine the role of

travel writing in the construction of Imperial politics and we will explore how and in what ways female travel writers either participated in or challenged the convention of the British Imperial subject. We will also consider wider issues such as the developments in visual culture, developments in archaeology and anthropology, the changing political landscapes and developments in leisure, technology and tourism.

102374.1 Women's Writing

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points in currently enrolled course.

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This unit focuses on the study of women's writing from a broad social and cultural context. While the women writers will change from offering to offering, the content will remain centred on feminist theory and discourses of race, ethnicity, class and gender. The unit will draw on a variety of genres including drama, fiction, poetry, essay and short story. Students will explore women's concerns about motherhood, marriage, violence and domesticity; cultural identity, vocation and the body as (sexual) object. They will also explore women's experiences of madness and victimisation; segregation and alienation; power/lessness and the public sphere.

400904.2 Work Experience in Sport and Exercise Science

Credit Points 10 **Level** 3

Equivalent Units

400331 - Sport and Exercise Science in Practice

Unit Enrolment Restrictions

Students must be enrolled in 4658 Bachelor of Health Science (Sport and Exercise Science). Students in course versions 4658.1, 4658.2 and 4658.3 must successfully complete three pre-requisite units - 400885 Sport and Exercise Physiology, 400902 Exercise in Musculo-Skeletal Rehabilitation and 400903 Professional Development and Work Experience. Students in course version 4658.4 must successfully complete two prerequisite units - 401142 Exercise Physiology and 401143 Exercise Prescription 1.

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Experience in the field of study is an essential ingredient in marketing an individual for employment and often for professional memberships. Work Experience in Sport and Exercise Science provides students with an opportunity to observe and assist Sport & Exercise Science practitioners in action and to learn in a practical setting. Students will have the opportunity to see how knowledge and skills acquired in lectures and tutorials/laboratories can be applied and also relate theoretical concepts and skills to situations in exercise-related settings. This unit is the second of two units that require a work placement which is usually off campus.

200861.1 Work Health and Safety

Credit Points 10 **Level** 3

Equivalent Units

61442 - Occupational Health and Safety, 200753 - Occupational Health and Safety, 200617 - Occupational Health and Safety

Work Health and Safety introduces participants to work health and safety concepts, terminology, legal frameworks and research sources. It includes practical activities around hazard identification and risk assessment. The many academic disciplines that contribute to work health and safety policy and practice will be critiqued: from epidemiology to engineering to ergonomics to employment relations. Ideologies that shape how workers, managers and organisations approach work health and safety will be examined, particularly via the notion of safety culture. This unit is designed for participants from all academic programs. Successful completion means being able to engage critically and practically in work health and safety challenges in multiple contexts, with competing stakeholder interests in mind.

301161.1 Work Integrated Learning in Science

Credit Points 10 **Level** 2

Assumed Knowledge

Prior to entering the unit, the student must have completed three careers workshops (generating a 'career e-portfolio') and have attended a pre-placement workshop. At the workshop the responsibilities, requirements and assessment of the placement will be discussed. Additionally, at the workshop students will be guided on how to prepare their plan for the Professional Task.

Unit Enrolment Restrictions

Students must have successfully completed 30 credit points at level 2; must have a GPA > 5; must have completed the three Careers Workshops (http://www.westernsydney.edu.au/careers/home/students_grads/workshops) – “Applying for work: Resume and cover letter writing”, “Finding Work” and “Interviewing for Work” - in order to generate a career e-portfolio; and must have developed a plan for the Professional Task.

This unit will provide second and third year science students with an opportunity to undertake a short work placement within a professional organisation. The placement will allow students to observe and develop professional skills and behaviour and integrate theoretical and practical science knowledge and conventions into a real world setting. During the semester preceding the placement students need to complete three career preparation workshops run by Western Sydney University Careers and attend a Pre-Placement seminar run by the unit coordinator. These will aid students in finding their own placement. Prior to the placement, and in consultation with the unit coordinator and the workplace supervisor, students will develop a Professional Task to accomplish during the placement. The task will enhance their workplace skills and

highlight how their science knowledge can be adapted and integrated into a professional career. The unit aims to promote greater engagement with career planning and progression and hence improve job readiness.

102414.1 Working Grammar

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

How does grammar work? And how do languages function in different social contexts? This unit introduces students to a functional analysis of the English language, and relates the structure of English to its use in cultural and social contexts. It offers students of literature and training teachers an introduction to theories and forms of analysis that support much English language education in Australia. The functional model of language is used in a range of fields - including teaching in schools and universities, teaching ESL/EFL, and broader language research. Students will apply the functional analysis of English to a range of spoken and written texts from diverse literary, social and cultural contexts. This will help to provide grammatical skills and work-readiness, especially for students training to be professional teachers.

200914.1 Working in Professions

Credit Points 10 **Level** 2

Equivalent Units

200376 - Managing and Developing Careers, 200915 - The Service Enterprise

Unit Enrolment Restrictions

Successful completion of 60 credit points of Business units.

Working in Professions focuses on developing career understandings and appreciating the personal attributes required for employability in the 'real world' of accounting, banking, economics, finance and property. This is a professional unit in the Bachelor of Business, but is also open to participants with an interest in examining and developing their knowledge of employability in these career areas. The unit involves examination of the evolving nature of work in a dynamic globalised context; applied labour market and industry structure analysis; and an exploration of employability attributes, capacities and opportunities across a range of career paths. Successful completion of the unit allows participants to gauge employer expectations, and to identify and reflect on career opportunities in their chosen fields.

101900.2 Working with Communities

Credit Points 10 **Level** 1

Equivalent Units

101553 - Organisations, Communities and Communication; 101276 - Working with Communities; 700139 Working with Communities

Incompatible Units

400504 - Skills Development in the Human Services

Special Requirements - Essential Equipment

Access to computing and internet facilities

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A diverse range of professionals use social science research, theories and principles in their work with communities. In this unit students will explore common scholarly ideas and debates that inform work with communities and how these are applied in a range of professional settings. This unit introduces students to the methods and principles of community participation, capacity-building, community needs assessment, and resilience. Students will be guided to identify and analyse global, local, government and organisational aspects and interests in the development of their own and wider communities. Students will plan a professional approach to working with an example community by building and reporting on a chosen case study.

400246.4 Workplace Learning 1 (Therapeutic Recreation)

Credit Points 10 **Level** 2

Prerequisite

400783.2 Professional Pathways in Health Science

Unit Enrolment Restrictions

Students must be enrolled in the Bachelor of Health Science - Therapeutic Recreation program.

.....

This unit provides students with the opportunity to apply theoretical and practical knowledge and skills gained in the course to develop their practice and professional behaviours in a therapeutic recreation workplace setting. The unit develops skills for students in working with individuals in a therapeutic recreation program that include assessment, planning, programming and evaluation.

400252.3 Workplace Learning 2 (Community Placement)

Credit Points 10 **Level** 3

Prerequisite

400246.3 Workplace Learning 1 (Therapeutic Recreation)

Unit Enrolment Restrictions

This is a specialty unit offered as a compulsory core unit of Bachelor of Health Science- Therapeutic Recreation program. It is profession specific, preparing students to practice as a recreation therapist and not relevant or appropriate as an elective for non-therapeutic recreation students.

Special Requirements - Essential Equipment

Uniform - pants, and a WSU Therapeutic Recreation shirt available from The Co-Op shop on campus.

.....

This unit provides students with the opportunity to experience the practice of therapeutic recreation in the workplace through a supervised placement experience with

industry. Students will complete practice hours in accordance with the National Diversional and Recreation Therapy Australia requirements. Students will develop skills in client assessment, problem identification, program planning, implementation and evaluation in a range of therapeutic service settings. Students will develop learning contracts and explore the advocacy and support needs of the clients.

101669.3 World Literature in Translation

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

.....

This unit examines representative works of world literature written in languages other than English in order to address a range of literary and cultural issues, including the role of translation in crosscultural communication.

102500.1 Writing and Form

Credit Points 10 **Level** 7

Equivalent Units

102259 - Search (Translation)

Unit Enrolment Restrictions

Students must be enrolled in 1831 Master of Arts in Literature and Creative Writing or 8083 Bachelor of Research Studies

.....

Literature has always involved playing with language and shaping words into specific forms. The European avant-gardes of the 1910s, 20s and 30s set out to sweep aside traditional forms and valued kinds of playing that many authorities of the day regarded as childish. This unit will examine the interactions of play and form in experimental writing. It will explore the ways in which literary experimentation can be constructive as well as iconoclastic. It will also locate fruitful points of contact between literature and scientific knowledge, using the idea of searching or quest (for meanings and forms) as a guiding metaphor. While focus from year to year might change the unit has focused, for example on the work of the Surrealists and the Oulipo group.

102497.1 Writing and Ideas

Credit Points 10 **Level** 7

Equivalent Units

102256 - Idea (Conceiving Experience)

Unit Enrolment Restrictions

Students must be enrolled in 1831 Master of Arts in Literature and Creative Writing or 8083 Bachelor of Research Studies

.....

This unit will focus on a particular idea or concept that is of major importance to the diverse cultural, artistic and philosophical understandings we have of ourselves. It will then look to explore how the idea operates through these

differing understandings and the problems it poses for representation. The theoretical and creative texts examined will focus both on the nature of the idea and how it might be better understood or made use of in creative practice.

101908.1 Writing and Reading Sci Fi and Fantasy

Credit Points 10 **Level** 3

Assumed Knowledge

Good standard of written English expression

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

.....

This unit covers the basic creative writing techniques for 'worldbuilding' in the genres of science fiction and fantasy. Through guided reading and writing you'll explore what happens when ordinary human predicaments are deepened and complicated when represented as happening in a world not our own: one with different physical laws, belief systems, technologies and cultural practices. In a workshoping environment, you will build outward from a 'story-bud' about an alternative or alien world to explore the logic of that world and its implications for the creation of believable characters, setting, action and - overall - the development of a successful story.

101670.3 Writing and Society

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

.....

This unit explores the social dimensions of literature, both generally, by considering the role played by tradition, authorship, genre and style in the literary exploration of values, and in specific terms, through a close examination of works which have had an important social impact in their time, including those in translation, from a range of contemporary literatures. The lecturers are members of the Writing and Society Research Group, many of whom are practising authors.

100896.3 Writing Fiction

Credit Points 10 **Level** 2

Equivalent Units

CT207A - Creative Writing, B2652 - Writing Fiction

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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In this unit students explore, critically examine and write in a range of fictional forms. They critique a wide variety of published fiction in order to enhance their understanding of approaches, possibilities and techniques, thereby developing a greater capacity to write and critically evaluate their own work. Students create their own fiction in the form

of written exercises and assignments, which they will have the opportunity to workshop in a supportive critical environment.

100895.4 Writing For Performance

Credit Points 10 **Level** 3

Equivalent Units

B3654 - Writing for Performance, 100297 - Writing for Screen and Stage

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

.....

In this unit students will consider the history and theory of a selection of performance traditions including Greek tragedy, Elizabethan and Jacobean and modern drama and post-modern performance and write scripts for one or a number of media, including screen (film and television), dramatic theatre, performance poetry and song lyrics and contemporary performance.

101011.3 Writing Poetry

Credit Points 10 **Level** 3

Equivalent Units

B2653 - Writing Poetry

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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What does a poem look or sound like today? In this unit students examine poetic forms, styles and techniques from various cultures of the 20th and 21st centuries. Students are taught to analyse and write poetry via a series of guided workshop exercises. They learn that writing poetry also involves becoming a skilled reader of and about poetry. Students enrich their knowledge and love of poems by scrutinising a range of poetic types and methods including imagism, metaphor, free verse, humour, spoken word traditions, song-writing, ecological poetics, and visual and digital poetics. No previous experience in poetry writing is necessary.

100582.3 Writing Portfolio

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

.....

In this level 3 foundation unit of the Creative Writing Major, students are guided by experienced, professional writers in producing an extended portfolio of original creative writing, in a genre (or genres) of their choice. Students will read closely from a wide range of literary texts while completing an intensive program of in-class writing and workshoping activities. They will gain skills in reading and interpreting texts from different genres, eras and contexts – including culturally diverse settings. Students will develop skills in

drafting, editing and polishing their own creative work, and in situating their writing within the Australian literary and publishing industries.

102498.1 Writing Practice and Tradition

Credit Points 10 **Level** 7

Equivalent Units

102257 - Word (Literary Traditions)

Unit Enrolment Restrictions

Students must be enrolled in 1831 Master of Arts in Literature and Creative Writing or 8083 Bachelor of Research Studies

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This unit will consider the nature of writing in terms of both writing and editorial practice. It will involve the analysis of major works by writers (both of fiction and non-fiction) within particular traditions and communities and reflect on the themes of these works and the processes through which they emerge. It will explore the power of the word to shape our understanding of the world. This reflection will be both theoretical and practical.

102499.1 Writing Process

Credit Points 10 **Level** 7

Equivalent Units

102258 - World (Art and Nature)

Unit Enrolment Restrictions

Students must be enrolled in 1831 Master of Arts in Literature and Creative Writing or 8083 Bachelor of Research Studies

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This unit will consider elements of the physical world around us: the phenomena we inhabit which form our sense of self. Focusing on literature and how meaning is created in literary form the unit will consider the interaction between the created world and the real world. It will focus on method and process in writing. In doing this it will engage with ideas from a number of areas, including science, philosophy, and literary theory in considering particular aspects of both our interaction with world, and how it shapes us, and the manner in which art shapes and forces itself upon the world. A specific theme related to the process of creation in art will be addressed.

102501.1 Writing, Sounds, Images, Texts

Credit Points 10 **Level** 7

Equivalent Units

102260 - Display (Sounds, Images, Text)

Unit Enrolment Restrictions

Students must be enrolled in 1831 Master of Arts in Literature and Creative Writing or 8083 Bachelor of Research Studies.

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This unit will involve a reflection on practice-based research in the arts. It will involve a consideration of how various art-forms might interact and inform one another. There will,

then, be a focus on interdisciplinary interaction in the arts: across music, visual arts, and writing, with a strong interest in the potentials of new media. Throughout we will make comparisons with the relationship between sound and text in film, and in the media more broadly.

101830.2 WWII in Asia and the Pacific

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit provides inquiry into the origins, course, and aftermath of WWII in Asia and the Pacific. We will ask why Japan and China went to war with each other in the 1930s; we will also seek understanding of why and how that war came to include the United States, Britain, the Soviet Union, the Netherlands, Australia, New Zealand, and practically all of Asia. We will examine the atomic attacks against Hiroshima and Nagasaki: Was the bomb a necessary evil? Or could/should the US have avoided using the bomb? We will also look intensively at post-WWII Asia. How did two wartime allies - the US and the Soviet Union - become bitter enemies within months of the war's end? Why did China descend into civil war? What was the war in Korea all about? Were wars of independence throughout SE Asia unavoidable? How was it that Japan escaped much of this postwar misery?

101662.1 Young People, Their Futures and Education

Credit Points 10 **Level** 3

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Young People, Their Futures and Education is situated within the broad theoretical framework of youth studies. This unit addresses a number of key issues concerning the education of young people from adolescence to early adulthood. Alternative theories and approaches to instructing, motivating and engaging young people are explored. Identity issues relating to various sections of the youth population are also examined. Emphasis is placed on providing future educators with practical skills and functional knowledge to enhance the experiences of young people.

100298.3 Youth Cultures and Moral Panics

Credit Points 10 **Level** 2

Assumed Knowledge

Satisfactory understanding of key issues and concepts of first year core units.

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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Young people have long been the focus of social fears. Public figures regularly express concern about the disorder created by unruly youths, or the effects of change on young people. This is the case in relation to popular music, 'youth

gangs', new technologies and other areas. This unit will consider how young people became defined as a problem by politicians, policy, the media and others. Resulting 'moral panics' represent social anxieties around economic, social and technological change, producing calls for 'solutions' which often entail repressive laws or policing. Students will examine a range of case studies from Australia and elsewhere.

102699.1 Youth Justice and Practice

Credit Points 10 **Level** 2

Equivalent Units

400684 - Juvenile Crime and Justice

Unit Enrolment Restrictions

Successful completion of 40 credit points at Level 1.

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This unit develops an understanding of the complexity of youth justice by addressing the historical, political, cultural and socio-economic factors associated with youth crime, constructions of youth, and governmental strategies for regulating and preventing youth crime. Insights from legal practitioners, police, youth workers, adolescent psychologists, and juvenile justice case managers form part of the unit's inter-disciplinary framework. This is used to develop a critical appreciation of the impacts of the regulation of particular youth groups that are over-represented in the juvenile justice system, including Aboriginal and Torres Strait Islander youth, youth in out-of-home care, and other racial/ethnic minority youth. Lastly, the unit critically assesses a range of official interventions for working with young people within the youth justice system.

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