

Science, Technology, Engineering and Mathematics (STEM) Schools

Electronic Undergraduate Handbook 2021

Western Sydney University

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Information contained in this electronic handbook is correct at the time of production (March 2021), unless otherwise noted.

CRICOS Provider Code 00917K

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About the Science, Technology, Engineering and Mathematics (STEM) Schools Electronic Undergraduate Handbook

Sessions and dates

There are two main sessions in 2021: 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/2021_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 Built Environment, Computer, Data and Mathematical Sciences, Engineering, Science 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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ADMINISTRATIVE**University Foundation Studies Accelerated - 1 Term (WSTC)****9017.2**

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 2016 or later.

University Foundation Studies Accelerated Course is a university entry program designed for domestic students who have completed a minimum of year 12 or its equivalent. The course provides an academic entry pathway to first year undergraduate study or its equivalent. Students complete 45 credit points over one term. Units are designed to provide students with the generic skills needed for success at university in addition to more specialised discipline specific units intended to provide students with curriculum knowledge and skills to be successful in their chosen university course.

Study Mode

Four months

Location

Campus	Attendance	Mode
The College - Nirimba Education Precinct	Full Time	Internal

Admission

For Domestic Students only

Entry is open to Australian Citizens and Permanent Residents aged 18 years or over. Applicants who are 17 years of age will be eligible for an offer if they have completed the HSC or other Year 12 studies or equivalent or post-secondary studies at AQF Level 3 or above.

For more information on applying please see link to The College admission pages below.

Course Structure

Students must:

- Complete all the units within their chosen sequence
- Pass 900021 Academic English with a minimum C grade.
- Achieve a GPA of 5.5 or higher in order to graduate.

Students articulating into a WSU Bachelor degree may require a higher GPA (6 or above) and, for some degrees, may be required to achieve specific grades in Mathematics units.

Students must complete the following sequence:

SQ9051.1	Health Science/Nursing Sequence - Foundation Studies Accelerated - 1 Term
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University Foundation Studies Standard - 2 Terms (WSTC)**9018.5**

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 mid-year 2018 or later.

University Foundation Studies Standard Course is a university entry program designed for Domestic students who have completed a minimum of Year 12 (or its equivalent) and International students who have completed a minimum of Year 11 (or its equivalent). The course provides an academic entry pathway to first year undergraduate study or its equivalent. Students complete eighty credit points over two terms. Units are designed to provide students with the generic skills needed for success at university in addition to more specialised discipline specific units intended to provide students with curriculum knowledge and skills to be successful in their chosen university course. Students choose one of three specialised streams of study from: Arts; Business; Health Science/ Nursing; ICT; Science and Engineering.

Study Mode

Eight months full-time or One and a half years part-time

Location

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

Admission**International students**

For more information on applying please see link to The College admission pages below.

IELTS 5.5 with minimum 5.0 in each band except for Health Science/Nursing stream where IELTS 6.0 with a minimum of 5.5 in each sub band is required. Completion of Year 11 with an average of 55% in Academic subjects.

Course Structure

In order to graduate, students must:

- Complete all the units within their chosen sequence
- PASS Introduction to Academic Communication 2 with a minimum C grade.
- Achieve a GPA of 5.5 or higher

Students articulating into a Western Sydney University Bachelor degree may require a higher GPA (6 or above) and, for some degrees, may be required to achieve specific grades in Mathematics units.

Students must complete one of the following sequences:

SQ9054.1	Business Sequence - Foundation Studies
SQ9056.1	Health Science/Nursing Sequence - Foundation Studies
SQ9058.1	Science Sequence - Foundation Studies

University Foundation Studies Standard - 2 Terms (WSTC)

9019.5

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 mid-year 2018 or later.

University Foundation Studies Standard Course is a university entry program that provides an alternative academic entry pathway to first year undergraduate study or its equivalent. Students complete eighty credit points over two terms. Units are designed to provide students with the generic skills needed for success at university in addition to more specialised discipline specific units intended to provide students with curriculum knowledge and skills to be successful in, for example, Health Science or Nursing.

Study Mode

Eight months full-time or One and a half years part-time

Location

Campus	Attendance	Mode
The College - Nirimba Education Precinct	Full Time	Internal

Admission

Domestic students

For more information on applying please see link to The College admission pages below.

Entry is open to Australian Citizens and Permanent Residents aged 18 years or over. Applicants who are 17 years of age will be eligible for an offer if they have completed the HSC or other Year 12 studies or equivalent or post-secondary studies at AQF Level 3 or above.

Course Structure

In order to graduate, students must:

- Complete all the units within their chosen sequence
- PASS Introduction to Academic Communication 2 with a minimum C grade.
- Achieve a GPA of 5.5 or higher

Students articulating into B Nursing will need a GPA of 7 or higher. Please note: additional English language proficiency requirements set by the Australian Nursing and Midwifery Accreditation Council (ANMAC) must be declared and met before students are eligible to commence study in the Bachelor of Nursing at Western Sydney University.

Students must complete one of the following sequences:

SQ9053.1	Arts Sequence - Foundation Studies
SQ9054.1	Business Sequence - Foundation Studies
SQ9055.1	Engineering Sequence - Foundation Studies
SQ9056.1	Health Science/Nursing Sequence - Foundation Studies

SQ9057.1
SQ9058.1

ICT Sequence - Foundation Studies
Science Sequence - Foundation Studies

University Foundation Studies Extended - 3 Terms (WSTC)

9020.4

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 mid-year 2017 or later.

University Foundation Studies Extended Course is a university entry program designed specifically for international students who have completed Year 11 or its overseas equivalent. The course provides an academic entry pathway to first year undergraduate study or its equivalent. In term one of the course, students complete five core units intended to form the basis of generic skills needed for success at university. The remaining units in this and the subsequent two terms are more specialised discipline specific units intended to provide students with curriculum knowledge and skills to be successful in their chosen university course. The course provides an academic entry pathway to first year undergraduate study or its equivalent.

Study Mode

One year full-time or Two years part-time

Location

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

Admission

International students only

For more information on applying please see link to The College admission pages below.

IELTS 5.5 except for Health Science/Nursing stream where IELTS 6.0 with a minimum of 5.0 in each sub band is required. Completion of Year 11 with an average of 50% in Academic subjects.

Course Structure

In order to graduate, students must:

- Complete all the units within their chosen sequence
- PASS 900108 Introduction to Academic Communication 2 with a minimum C grade.
- Achieve a GPA of 5.5 or higher

Students articulating into a Western Sydney University Bachelor degree may require a higher GPA (6 or above) and, for some degrees, may be required to achieve specific grades in Mathematics units.

Students must complete the following Core Units

Session 1 - Core Units

900051.3	Computer Literacy (WSTC)
900056.3	The Structure of English (WSTC)

900089.2 Organisation for Tertiary Study (WSTC)
900115.1 Practical Mathematics (WSTC)

Plus 10 credit points from either:

Engineering/Science/Health Science students

900053.3 Foundations of Science (WSTC)

Or

Arts/Business/ICT students

900091.2 Studies of Society (WSTC)

Session 2 and 3

Students must complete one of the following sequences:

SQ9054.1 Business Sequence - Foundation
Studies
SQ9056.1 Health Science/Nursing Sequence -
Foundation Studies
SQ9058.1 Science Sequence - Foundation
Studies

Specialisations

Sequence - Health Science/Nursing Sequence - Foundation Studies Accelerated - 1 Term

SQ9051.1

Specialisation Structure

900021.3	Academic English (WSTC)
900112.1	Skills for Health Science (WSTC)
900088.2	Mathematics for Health Science (WSTC)
900090.3	Science for Health Professionals (WSTC)
900081.2	Health Communication (WSTC)

Sequence - Arts Sequence - Foundation Studies

SQ9053.1

Specialisation Structure

Only International students do the following two non-award units

900120.1	English for International Students 1 (WSTC)
900121.1	English for International Students 2 (WSTC)

All Arts students do the following units

900107.2	Introduction to Academic Communication 1 (WSTC)
900108.2	Introduction to Academic Communication 2 (WSTC)
900097.1	Academic Skills for Arts (WSTC)
900109.1	Key Ideas in Arts and Social Sciences (WSTC)
900082.2	Introduction to Human Behaviour (WSTC)
900077.2	Australian Studies (WSTC)
900029.4	Cultural Perspectives (WSTC)

Sequence - Business Sequence - Foundation Studies

SQ9054.1

Specialisation Structure

Only International students do the following two non-award units

900120.1	English for International Students 1 (WSTC)
900121.1	English for International Students 2 (WSTC)

All Business students do the following units

900107.2	Introduction to Academic Communication 1 (WSTC)
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900108.2	Introduction to Academic Communication 2 (WSTC)
900098.1	Academic Skills for Business (WSTC)
900114.1	Introductory Business Mathematics (WSTC)
900010.3	Accounting Fundamentals (WSTC)
900011.3	Statistics for Academic Purposes (WSTC)
900030.4	Economics (WSTC)
900083.3	Introduction to the Australian Legal System (WSTC)
900023.3	Business Studies (WSTC)

Sequence - Engineering Sequence - Foundation Studies

SQ9055.1

Specialisation Structure

Only International students do the following two non-award units

900120.1	English for International Students 1 (WSTC)
900121.1	English for International Students 2 (WSTC)

All Engineering students do the following units

900107.2	Introduction to Academic Communication 1 (WSTC)
900108.2	Introduction to Academic Communication 2 (WSTC)
900086.3	Mathematics 2 (WSTC)
900087.3	Mathematics 3 (WSTC)
900028.3	Computer Studies (WSTC)
900084.2	Introductory Programming (WSTC)
900079.2	Foundation Physics 1 (WSTC)
900080.2	Foundation Physics 2 (WSTC)

Sequence - Health Science/Nursing Sequence - Foundation Studies

SQ9056.1

Specialisation Structure

Only International students do the following two non-award units

900120.1	English for International Students 1 (WSTC)
900121.1	English for International Students 2 (WSTC)

All Health Science/Nursing students do the following units

900126.1	Communication Skills for Health Science 1 (WSTC)
900108.2	Introduction to Academic Communication 2 (WSTC)
900099.1	Academic Skills for Health Science (WSTC)
900106.1	Health Care Environments (WSTC)
900088.2	Mathematics for Health Science (WSTC)
900090.3	Science for Health Professionals (WSTC)
900123.1	Psychological Foundations of Health (WSTC)
900081.2	Health Communication (WSTC)

Sequence - ICT Sequence - Foundation Studies

SQ9057.1

Specialisation Structure

Only International students do the following two non-award units

- 900120.1 English for International Students 1 (WSTC)
- 900121.1 English for International Students 2 (WSTC)

All ICT students do the following units

- 900107.2 Introduction to Academic Communication 1 (WSTC)
- 900108.2 Introduction to Academic Communication 2 (WSTC)
- 900100.1 Academic Skills for Information Communications Technology (WSTC)
- 900028.3 Computer Studies (WSTC)
- 900023.3 Business Studies (WSTC)
- 900086.3 Mathematics 2 (WSTC)
- 900009.3 Programming Design (WSTC)
- 900011.3 Statistics for Academic Purposes (WSTC)
- 900076.2 Advanced Computer Studies (WSTC)

Sequence - Science Sequence - Foundation Studies

SQ9058.1

Specialisation Structure

Only International students do the following two non-award units:

- 900120.1 English for International Students 1 (WSTC)
- 900121.1 English for International Students 2 (WSTC)

All Science students do the following units:

- 900107.2 Introduction to Academic Communication 1 (WSTC)
- 900108.2 Introduction to Academic Communication 2 (WSTC)
- 900105.1 Fundamentals of Science (WSTC)
- 900104.2 Focus on Biology (WSTC)
- 900101.1 Academic Skills for Science (WSTC)
- 900086.3 Mathematics 2 (WSTC)
- 900024.3 Chemistry (WSTC)
- 900079.2 Foundation Physics 1 (WSTC)

GRADUATE RESEARCH SCHOOL

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

200855.3	Leadership in a Complex World
301071.3	Introduction to Critical Thinking
301069.3	Research Stories
102211.3	Creativity, Innovation and Design Thinking

2H Session

301072.4	Innovation Lab
102212.3	Internship and Community Engagement
102250.2	Ethical Leadership
301070.3	Logic, Rhetoric and Argumentation

Four Year Accelerated Pathway for Concurrent Enrolment in a Four Year Degree

Year 1

Summer session

200855.3	Leadership in a Complex World
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Year 2**Summer session**

102211.3 Creativity, Innovation and Design Thinking
301071.3 Introduction to Critical Thinking

Year 3**Summer session**

102250.2 Ethical Leadership
301069.3 Research Stories

Year 4**Summer session**

301070.3 Logic, Rhetoric and Argumentation
102212.3 Internship and Community Engagement
301072.4 Innovation Lab

Five Year Accelerated Pathway for Concurrent Enrolment in a Five Year Degree

Year 1**Summer session**

200855.3 Leadership in a Complex World

Year 2**Summer session**

102211.3 Creativity, Innovation and Design Thinking
301071.3 Introduction to Critical Thinking

Year 3**Summer session**

102250.2 Ethical Leadership
301069.3 Research Stories

Year 4**Summer session**

301070.3 Logic, Rhetoric and Argumentation

Year 5**Summer session**

102212.3 Internship and Community Engagement
301072.4 Innovation Lab

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;
- Applicants who do not meet the AAM equal to or above the minimum of 65 will be considered in exceptional circumstances, and applicants whose most recent qualification is 5+ years old shall provide additional evidence of relevant work experience or professional training, or evidence of seniority and standing in an area of endeavor and provide written support from the potential supervisor. Examples of evidence may include; work as a research assistant or laboratory technician, the writing of policy, consultancy involving the writing of reports, production of creative output, and publication of peer reviewed journal articles. Applications will be reviewed and approved by the relevant HDR Director and the Dean of the GRS;

- 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

- 800218.1** Researcher Development 1: Reading , Writing, and the Business of Research
- 800219.1** Writing Beyond the Academy: Knowledge Translation and Public Audience Communication
- 800220.1** Researcher Development 2: Proposing and Justifying Research

Equivalent Core Units

The core units listed below count towards completion of this course for students who passed these units in 2019 or earlier.

800166 - Research Design 1: Theories of Enquiry

800167 - Research Literacies

800169 - Research Design 2: Practices of Research

Students must also complete

- 50 credit points of specialisation cluster units. Students will choose 40 credit points of discipline-specific units from within their cluster and are encouraged to choose 10 credit points from an alternate cluster, however this is not mandatory. Students are required to complete 50 credit points of cluster units in total. The three cluster discipline areas are Humanities, Arts and Social Sciences (HASS), Science, Technology, Engineering and Mathematics (STEM), and Health and Medicine, 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) Cluster

Please note: units will be offered subject to demand and availability

Graduate Research School

- 800228.1** Research Internship and Engagement
- 800213.1** Fieldwork in Complex and Hostile Places

School of Humanities and Communication Arts

Research Methods based Units

- 102426.1** Digital Humanities Research Methods (PG)

Disciplinary Content Units

- 102582.1** Philosophy of History and Politics
- 102584.1** The Image of Thought: Art, Film and Philosophy
- 102601.1** Understanding Race
- 102602.1** Gender and Genre

Hybrid - Disciplinary Content and Research Methods

- 102661.1** How to Write History
- 102662.1** New Genres in Research Writing
- 102412.1** Global Digital Futures
- 102298.1** The Cutting Edge: Advanced Studies in Humanities and Communication Arts
- 102339.3** Environmental Humanities
- 102340.1** Engaging Discursive Fields
- 102342.1** In the Realms of the Sensory: Ecologies of Word, Sound and Image
- 102341.1** Debates in Global History
- 102581.1** Literary Theory
- 102583.1** History of Ideas
- 102585.1** What is Islam?

Creative Writing

Disciplinary Content Units

- 102499.1** Writing Process
- 102500.2** Writing and Form

Hybrid - Disciplinary Content and Research Methods

- 102497.2** Writing and Ideas
- 102498.2** Writing Practice and Tradition
- 102501.2** Writing, Sounds, Images, Texts

Convergent Media

Hybrid - Disciplinary Content and Research Methods

- 101962.1** Researching Convergent Media

Continental Philosophy

Disciplinary Content Units

- 102381.1** Ethics
- 102384.1** Political Philosophy
- 102616.1** Philosophy and Literature

Hybrid - Disciplinary Content and Research Methods

- 102380.1 Philosophical Aesthetics
- 102383.1 Topics in the History of Philosophy
- 102379.1 Special Topics in Philosophy
- 102615.1 Theoretical Philosophy
- 102618.1 Practical Philosophy
- 102619.1 Philosophy of Nature
- 102620.1 Philosophy, History and Interpretation

Creative Arts**Disciplinary Content Units**

- 102376.1 Creativity: Theory and Practice

Hybrid - Disciplinary Content and Research Methods

- 102375.1 Research Methods in the Creative Arts
- 102728.1 Research into Practice: bridging the clinician-researcher divide in applied and creative therapies

Linguistics and TESOL**Research Methods based Units**

- 101854.1 Language and Linguistics Research Methods
- 102621.2 Formal and Functional Grammar

Hybrid - Disciplinary Content and Research Methods

- 101825.3 English Linguistics for TESOL
- 102325.1 Advanced Academic English Skills
- 100919.3 Investigating Second Language Acquisition
- 102525.1 Bilingualism and Education

Social Sciences and Psychology**Research Methods based Units**

- 102253.2 Digital Social Research in Action

Hybrid - Disciplinary Content and Research Methods

- 102180.3 Translation from Theory and Research to Policy
- 102176.2 Theories of Difference and Diversity
- 102194.3 Social Research in the Digital World
- 102698.2 Green Urbanscapes: Bio-Physical Functions and Services

Urban Studies**Hybrid - Disciplinary Content and Research Methods**

- 101633.3 Managing Cities: History and Theory
- 102069.2 Heritage and Planning
- 101315.4 Financing Cities in the Global Economy
- 101634.5 Planning and Environmental Regulation

Development, Security and Sustainability**Hybrid - Disciplinary Content and Research Methods**

- 101895.2 Political Economy of Development
- 101896.2 Development and Security

- 101636.3 Developing Sustainable Places
- 102577.2 Humanitarian and Development Agendas and Progress

Criminology**Hybrid - Disciplinary Content and Research Methods**

- 102198.2 Transnational Crime
- 102200.2 Global Criminology and Human Rights
- 102199.2 Violence, Culture and Criminal Justice

Religion and Society**Hybrid - Disciplinary Content and Research Methods**

- 102201.2 Contemporary Theories of Religion and Society
- 102202.2 Religion and Law in Contemporary Public Discourse

Humanitarian and Development Studies**Hybrid - Disciplinary Content and Research Methods**

- 101896.2 Development and Security
- 102576.2 Global Health, Migration and Development
- 102577.2 Humanitarian and Development Agendas and Progress
- 102574.2 Public Health in Complex Emergencies (Advanced)
- 102575.2 Emergency and Disaster Management

Institute for Culture and Society**Hybrid - Disciplinary Content and Research Methods**

- 800216.1 Researching Post-Capitalist Possibilities (PhD Summer School)
- 102295.2 Space, Place and the Field
- 800196.1 Rethinking Culture and Society

School of Education**Research Methods/Disciplinary Content**

- 102152.3 Social Ecology
- 102160.1 Education Policy, Practice and Global Knowledge Co-construction
- 102166.1 Person-Centred Practice
- 102158.2 Learning and Teaching in Challenging Contexts
- 102159.2 Designing Curriculum Futures
- 102165.1 At the cultural interface - learning two ways
- 101658.1 Transformative Learning
- 100701.1 Leadership, Mentoring and Professional Growth
- 102148.1 Engaging Communities

Hybrid - Disciplinary Content and Research Methods

- 102168.1 Principles and Practices of Evaluation

School of Business

Business students are required to undertake 30 credit points of research methods electives

Research Methods based Units

200897.1	Advanced Analysis and Interpretation
200898.2	Seminal Papers in Business
200896.2	Business Analysis Seminars

Business students may then select up to 20 credit points of cluster elective units

Disciplinary Content Units

200848.4	Governance, Ethics and Social Entrepreneurship
200828.1	Diversity, Labour Markets and Workforce Planning
200845.2	Innovation Through Digital Technology
200719.2	Industrial Relations and Workplace Change
51211.3	International Finance
200852.3	Innovation, Creativity and Foresight
200849.2	New Venture Finance
200894.1	Property Development
200722.2	Strategic Employment Relations
200401.4	Accounting Theory and Applications

Hybrid - Disciplinary Content and Research Methods

51054.4	Financial Modelling
51212.4	Security Analysis and Portfolio Theory
200329.5	Supply Chain Management

School of Law

200957.3	Bioethics in Perspective
200907.4	International Environmental Law and Policy
200948.1	International Banking and Finance Law
200949.1	International Climate Change Law
200980.1	Security of Ideas
200953.1	Human Rights in Practice and Theory
200951.1	International Law of Ocean Governance
200961.2	International Human Rights Law
200962.2	International Criminal Law and Justice
200963.2	International Space Law - Commercial Aspects
200964.1	Principles of International Law

Science, Technology, Engineering & Mathematics (STEM) Cluster

Please note: units will be offered subject to demand and availability

School of Computer, Data and Mathematical Sciences**Research Methods/Disciplinary Content - Computing**

301363.1	Advanced Cloud Computing
301196.2	Advanced Topics in Artificial Intelligence
300694.4	Advanced Topics in ICT
300252.4	Advanced Topics in Networking
301042.2	Cloud Computing
301175.2	Internet of Things
300599.4	Advanced Robotics
301038.3	Programming Proficiency
301312.1	Applied Machine Learning

Research Methods/Disciplinary Content - Data Science

301044.2	Data Science
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Research Methods/Disciplinary Content - Mathematics

301177.2	Mathematical Proof and Reasoning
301106.2	Mathematical Investigations
301176.2	Advanced Mathematical Investigations

Research Methods based Units

301387.1	Research Preparation in Post Graduate Studies
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Hybrid - Disciplinary Content and Research Methods

301236.2	Advanced Topics in Cybersecurity
301365.1	Probabilistic Graphical Models

School of Engineering**Disciplinary Content Units**

301002.2	Specialised Software Applications
301003.2	Sustainable Systems
300197.4	Power System Planning and Economics
301024.2	Advanced Numerical Methods in Engineering
300594.5	Advanced Structural Analysis
300595.4	Advanced Water Engineering
300604.4	Advanced Geotechnical Engineering
300939.3	Sustainability and Risk Engineering (PG)
301008.2	Advanced Composite Structures
301009.2	Advanced Timber Structures
301010.2	Advanced Applied Mechanics
301011.2	Advanced Highway Infrastructure
301012.2	Water Resources Systems Analysis
300515.5	Instrumentation and Measurement (PG)
301013.2	Advanced Statistical Hydrology
301015.2	Deep Foundations
301012.2	Water Resources Systems Analysis
300939.3	Sustainability and Risk Engineering (PG)
301018.2	Mechanical System Design
301017.2	Advanced Waste Management
300599.4	Advanced Robotics
301019.2	Advanced Dynamic Systems
300600.4	Mechatronic System Design
301020.2	Advanced Mobile Robotics
301021.2	Advanced Thermal and Fluid Engineering
301022.2	Advanced Computer Aided Engineering
301023.2	Advanced Computational Fluid Dynamics
301024.2	Advanced Numerical Methods in Engineering
300196.4	Personal Communication Systems
300197.4	Power System Planning and Economics
301025.2	Advanced Power Quality
301026.2	Advanced Smart Grids and Distributed Generation
300515.5	Instrumentation and Measurement (PG)
300601.4	Advanced Electrical Machines and Drives
300596.4	Advanced Signal Processing
300603.4	Advanced Control Systems
301019.2	Advanced Dynamic Systems
300173.4	Advanced Data Networks

School of Science**Hybrid - Disciplinary Content and Research Methods**

401266.2	Experimental Design and Analysis PG A
401267.2	Experimental Design and Analysis PG B

- 401203.2** Applications of Magnetic Resonance from Cancer to Neuroanatomy
301247.2 A Cosmic Perspective
301248.2 Space Instrumentation, Technology and Communication
301249.2 Space Science, Planetary Science and Meteorology

The MARCS Institute for Brain, Behaviour and Development

Hybrid - Disciplinary Content and Research Methods

- 800192.1** Neuroscience Methods
800173.1 Cognitive Science: Research and Application
800171.1 Learning and Processing Human Language

Hawkesbury Institute for the Environment

Research Methods based Units

- 800186.1** Emerging Technologies for Biological Science

Hybrid - Disciplinary Content and Research Methods

- 800170.1** Ecosystems in a Changing World
800195.1 Researching our Changing Environment

Health and Medicine Cluster

Please note: units will be offered subject to demand and availability

School of Nursing and Midwifery

Nursing and Midwifery

Research Methods based Units

- 400975.1** Ethics in Health Research
401167.1 Applied Research in Health Care

Disciplinary Content Units

- 400220.2** Contemporary Professional Practice in Mental Health Nursing
400238.3 Policy, Power and Politics in Health Care Provision
400777.5 Leadership for Quality and Safety in Health Care
400774.2 Perspectives on Nursing
400210.2 Health Promotion and the Nurse

School of Health Sciences

Research Methods based Units

- 401077.2** Introduction to Biostatistics

Disciplinary Content Units

- 401414.1** Advanced Sport and Exercise Science

Hybrid - Disciplinary Content and Research Methods

- 401076.2** Introduction to Epidemiology

School of Medicine

Research Methods based Units

- 401075.2** Major Incident Management

Disciplinary Content Units

- 401175.1** Analytic Approaches in Epidemiology
401174.1 Epidemiology of Non-Communicable Diseases
401173.2 Introduction to Clinical Epidemiology
401179.2 Data Management and Programming for Epidemiology

Hybrid - Disciplinary Content and Research Methods

- 401176.1** Statistical Methods in Epidemiology
401178.1 Controversies in Epidemiology

Translational Health Research Institute (THRI)

Research Methods

- 800215.1** Applied research with marginalised populations and sensitive health topics

NICM Health Research Institute

- 800225.1** Clinical Research in Health Science

Specialisation Units

The specialisation units listed below count towards completion of this course for students who passed these units in 2020 or earlier.

- 401291 - Advanced Sport and Exercise Science
 301016 - Advanced Water and Wastewater Treatment
 102220 - Applied Methods in Literary Studies and Creative Writing
 102222 - Applied Practice in Literary Studies and Creative Writing
 101897 - Development for Equality
 401162 - Experimental Design and Analysis (PG)
 102336 - Functional Grammar
 301118 - Genomic Data Science
 800176 - Internship and Community Engagement (PG)
 102181 - Nation, Power and Difference
 301037 - Scientific Informatics
 401164 - Transferable Research Skills

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 (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

101636.3	Developing Sustainable Places
101315.4	Financing Cities in the Global Economy
101633.3	Managing Cities: History and Theory
101634.5	Planning and Environmental Regulation

101314.4	Urban Management Practice: Governance and Power in the City
800218.1	Researcher Development 1: Reading , Writing, and the Business of Research
800219.1	Writing Beyond the Academy: Knowledge Translation and Public Audience Communication
800220.1	Researcher Development 2: Proposing and Justifying Research

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

800218.1	Researcher Development 1: Reading , Writing, and the Business of Research
800219.1	Writing Beyond the Academy: Knowledge Translation and Public Audience Communication
101633.3	Managing Cities: History and Theory
101634.5	Planning and Environmental Regulation

2H session

800220.1	Researcher Development 2: Proposing and Justifying Research
101315.4	Financing Cities in the Global Economy
101636.3	Developing Sustainable Places
101314.4	Urban Management Practice: Governance and Power in the City

Mid Year

2H session

800218.1	Researcher Development 1: Reading , Writing, and the Business of Research
101315.4	Financing Cities in the Global Economy
101636.3	Developing Sustainable Places
101314.4	Urban Management Practice: Governance and Power in the City

1H session

800220.1	Researcher Development 2: Proposing and Justifying Research
800219.1	Writing Beyond the Academy: Knowledge Translation and Public Audience Communication
101633.3	Managing Cities: History and Theory
101634.5	Planning and Environmental Regulation

Part-time

Start Year

Year 1

1H session

800218.1	Researcher Development 1: Reading , Writing, and the Business of Research
101633.3	Managing Cities: History and Theory

2H session

101315.4	Financing Cities in the Global Economy
101636.3	Developing Sustainable Places

Year 2

1H session

800219.1	Writing Beyond the Academy: Knowledge Translation and Public Audience Communication
101634.5	Planning and Environmental Regulation

2H session

800220.1	Researcher Development 2: Proposing and Justifying Research
101314.4	Urban Management Practice: Governance and Power in the City

Mid Year

Year 1

2H session

800218.1	Researcher Development 1: Reading , Writing, and the Business of Research
101636.3	Developing Sustainable Places

1H session

800219.1	Writing Beyond the Academy: Knowledge Translation and Public Audience Communication
101633.3	Managing Cities: History and Theory

Year 2

2H session

101315.4	Financing Cities in the Global Economy
101314.4	Urban Management Practice: Governance and Power in the City

1H session

800220.1	Researcher Development 2: Proposing and Justifying Research
101634.5	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.

Equivalent Core Units

The core units listed below count towards completion of this course for students who passed these units in 2019 or earlier.

800166 - Research Design 1: Theories of Enquiry

800167 - Research Literacies

800169 - Research Design 2: Practices of Research

Bachelor of Research Studies

8083.1

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	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

Further information for International students can be found on the website of the International office.

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 40 credit points of prescribed Core units.

Core units

800166.1	Research Design 1: Theories of Enquiry
800167.1	Research Literacies
800168.1	Research Fields
800169.1	Research Design 2: Practices of Research

Students must also complete

- 40 credit points of specialisation units. Students will choose 30 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 40 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

800176.3	Internship and Community Engagement (PG)
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Humanities and Communication Arts

102412.1	Global Digital Futures
102298.1	The Cutting Edge: Advanced Studies in Humanities and Communication Arts

- 102339.3 Environmental Humanities
 102340.1 Engaging Discursive Fields
 102341.1 Debates in Global History
 102342.1 In the Realms of the Sensory: Ecologies of Word, Sound and Image

Creative Writing

- 102256.1 Idea (Conceiving Experience)
 102257.1 Word (Literary Traditions)
 102258.1 World (Art and Nature)

Note: In 2017 the Creative Writing units 102256, 102257 and 102258 listed above have been replaced by 102497, 102498 and 102499 listed below.

- 102497.2 Writing and Ideas
 102498.2 Writing Practice and Tradition
 102499.1 Writing Process

Convergent Media

- 101962.1 Researching Convergent Media

Continental Philosophy

- 102384.1 Political Philosophy
 102380.1 Philosophical Aesthetics
 102381.1 Ethics

Creative Arts

- 102375.1 Research Methods in the Creative Arts
 102376.1 Creativity: Theory and Practice

Linguistics and TESOL

- 102336.1 Functional Grammar
 101825.3 English Linguistics for TESOL
 101854.1 Language and Linguistics Research Methods
 102325.1 Advanced Academic English Skills
 100919.3 Investigating Second Language Acquisition

Social Sciences and Psychology

- 102180.3 Translation from Theory and Research to Policy
 102176.2 Theories of Difference and Diversity
 102181.3 Nation, Power and Difference

Urban Studies

- 101633.3 Managing Cities: History and Theory
 102069.2 Heritage and Planning
 101315.4 Financing Cities in the Global Economy
 101634.5 Planning and Environmental Regulation

Development, Security and Sustainability

- 101895.2 Political Economy of Development
 101896.2 Development and Security
 101897.2 Development for Equality
 101636.3 Developing Sustainable Places

Criminology

- 102198.2 Transnational Crime

- 102199.2 Violence, Culture and Criminal Justice
 102200.2 Global Criminology and Human Rights

Religion and Society

- 101897.2 Development for Equality
 102202.2 Religion and Law in Contemporary Public Discourse
 102201.2 Contemporary Theories of Religion and Society

Institute for Culture and Society

- 800174.1 Economies and Ecologies
 102295.2 Space, Place and the Field

Education

Please be advised 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.

- 102152.3 Social Ecology
 102160.1 Education Policy, Practice and Global Knowledge Co-construction
 102166.1 Person-Centred Practice
 102158.2 Learning and Teaching in Challenging Contexts
 102159.2 Designing Curriculum Futures
 102165.1 At the cultural interface - learning two ways
 101658.1 Transformative Learning
 102168.1 Principles and Practices of Evaluation
 100701.1 Leadership, Mentoring and Professional Growth
 102148.1 Engaging Communities

Business

- 51054.4 Financial Modelling
 51211.3 International Finance
 51212.4 Security Analysis and Portfolio Theory
 200329.5 Supply Chain Management
 200401.4 Accounting Theory and Applications
 200719.2 Industrial Relations and Workplace Change
 200722.2 Strategic Employment Relations
 200828.1 Diversity, Labour Markets and Workforce Planning
 200845.2 Innovation Through Digital Technology
 200848.4 Governance, Ethics and Social Entrepreneurship
 200849.2 New Venture Finance
 200852.3 Innovation, Creativity and Foresight
 200894.1 Property Development
 200896.2 Business Analysis Seminars
 200897.1 Advanced Analysis and Interpretation
 200898.2 Seminal Papers in Business

Law

- 200957.3 Bioethics in Perspective
 200907.4 International Environmental Law and Policy
 200948.1 International Banking and Finance Law
 200949.1 International Climate Change Law
 200953.1 Human Rights in Practice and Theory
 200951.1 International Law of Ocean Governance

Science, Technology, Engineering & Mathematics (STEM) Specialisation

Please note: units will be offered subject to demand and availability

Computing, Engineering and Mathematics

301002.2	Specialised Software Applications
301003.2	Sustainable Systems
301044.2	Data Science
301037.3	Scientific Informatics
301024.2	Advanced Numerical Methods in Engineering
300594.5	Advanced Structural Analysis
300595.4	Advanced Water Engineering
300604.4	Advanced Geotechnical Engineering
300939.3	Sustainability and Risk Engineering (PG)
301008.2	Advanced Composite Structures
301009.2	Advanced Timber Structures
301010.2	Advanced Applied Mechanics
301011.3	Advanced Highway Infrastructure
301012.2	Water Resources Systems Analysis
301013.2	Advanced Statistical Hydrology
301015.2	Deep Foundations
301016.2	Advanced Water and Wastewater Treatment
301017.2	Advanced Waste Management
300939.3	Sustainability and Risk Engineering (PG)
301018.2	Mechanical System Design
300599.4	Advanced Robotics
301019.2	Advanced Dynamic Systems
300600.4	Mechatronic System Design
301020.2	Advanced Mobile Robotics
301021.2	Advanced Thermal and Fluid Engineering
301022.2	Advanced Computer Aided Engineering
301023.2	Advanced Computational Fluid Dynamics
301024.2	Advanced Numerical Methods in Engineering
300196.4	Personal Communication Systems
300197.4	Power System Planning and Economics
301025.2	Advanced Power Quality
301026.2	Advanced Smart Grids and Distributed Generation
300515.5	Instrumentation and Measurement (PG)
300601.4	Advanced Electrical Machines and Drives
300596.4	Advanced Signal Processing
300603.4	Advanced Control Systems
300515.5	Instrumentation and Measurement (PG)
300596.4	Advanced Signal Processing
300173.4	Advanced Data Networks

MARCS Institute for Brain, Behaviour and Development

800172.1	Quantitative Methods in Neuroscience
800173.1	Cognitive Science: Research and Application
800171.1	Learning and Processing Human Language

Hawkesbury Institute for the Environment

800170.1	Ecosystems in a Changing World
800186.1	Emerging Technologies for Biological Science

Nursing and Midwifery

400975.1	Ethics in Health Research
401167.1	Applied Research in Health Care

400220.2	Contemporary Professional Practice in Mental Health Nursing
400238.3	Policy, Power and Politics in Health Care Provision
400777.5	Leadership for Quality and Safety in Health Care
400774.2	Perspectives on Nursing
400210.2	Health Promotion and the Nurse

Science and Health

401164.2	Transferable Research Skills
401076.2	Introduction to Epidemiology
401162.1	Experimental Design and Analysis (PG)
401203.2	Applications of Magnetic Resonance from Cancer to Neuroanatomy

Medicine

401173.2	Introduction to Clinical Epidemiology
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SCHOOL OF BUILT ENVIRONMENT

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 focuses on producing graduates who can synthesise and evaluate information from across associated disciplines, undertake architectural design and apply design thinking to complex projects in a global marketplace. All studio units in this course will be offered at Westmead campus and/or online.

Additional Course Information

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.

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 Built Environment 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 5MB 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 100 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: B_Arch_Design_SURNAME_FIRSTNAME_portfolio.pdf

For example, B_Arch_Design_SMITH_JOHN_portfolio.pdf

You must upload your portfolio to your UAC application or via direct application through the Western Sydney portal. Offers are made on specific dates throughout the year.

For UAC applications visit

For Western Sydney portal applications visit

Do NOT email your portfolios to WSU.

All work submitted to be applicants own work.

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

All studio units in this course will be offered at Westmead campus and/or online.

Recommended Sequence Start Year Intake

Year 1

Autumn session

301280.1 Human Centred Design Research Methods
301283.1 Design Graphics: Presenting Innovation
301197.2 Architecture Studio - Fundamentals of Analogue Design

Spring session

301062.2 Environmental Building Design
301198.3 Architecture Studio - Fundamentals of Digital Design
301226.1 Residential Building

Year 2

Autumn session

101589.3 Cities: Introduction to Urban Studies

301199.2 Architecture Studio - Rethinking the Sub-urban

And one elective

Spring session

301200.2 Architecture Studio - Rethinking Urbanism
301227.1 Non-Residential Building

And one elective

Year 3

Autumn session

200471.5 Construction Technology 5 (Envelope)
301201.1 Architecture Studio - Global Cities

And one elective

Spring session

101646.3 Analysis of Spatial Data
301202.1 Architecture Studio - The Infrastructural

And one elective

Recommended Sequence Mid-Year Intake

Year 1

Spring session

301062.2 Environmental Building Design
301226.1 Residential Building
301198.3 Architecture Studio - Fundamentals of Digital Design

Autumn session

301280.1 Human Centred Design Research Methods
301283.1 Design Graphics: Presenting Innovation
301197.2 Architecture Studio - Fundamentals of Analogue Design

Year 2

Spring session

301227.1 Non-Residential Building
301200.2 Architecture Studio - Rethinking Urbanism

And one elective

Autumn session

101589.3 Cities: Introduction to Urban Studies
301199.2 Architecture Studio - Rethinking the Sub-urban

And one elective

Year 3

Spring session

101646.3 Analysis of Spatial Data
301202.1 Architecture Studio - The Infrastructural

And one elective

Autumn session

200471.5 Construction Technology 5 (Envelope)
301201.1 Architecture Studio - Global Cities

And one elective

Replaced Units

The units listed below count towards completion of this course for students who passed these units in 2019 or earlier.

301030 - Introduction to Industrial Design Methods
 301074 - Graphics 1: 2D and 3D Industrial Design Communication
 300706 - Building 1
 300707 - Building 2

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**3727.3**

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 2021 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.

Over four years, this course develops the skills necessary for a role in the integrated design and delivery of building projects. All aspects of building design are included: from initial design concept, extending to design brief formation, project documentation, quality control management during the building process and project handover. Students will develop an understanding of 'buildability' issues, accurate cost forecasting, risk management and sustainable project delivery. Students will also develop skills needed to work in a multi-disciplinary project team and negotiate favourable outcomes in complex project environments through simulations of real-life building projects and approved practical experiences.

There is an embedded honours stream in this course in the 4th year. Students are invited to enrol into the honours stream after consideration of certain criteria - such as GPA and overall marks in the first three years - with the opportunity to graduate with honours listed on their testamur.

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

Accreditation

The Bachelor of Building Design Management is accredited by the Chartered Institute of Building.

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: 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 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**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**Full-time****Year 1****Autumn session**

301226.1 Residential Building
301228.1 Drawing and CAD
301213.2 Construction Communication

301061.2 Construction Work Safety

Spring session

301227.1 Non-Residential Building
301224.1 Contract Administration
301219.1 Building Science
301062.2 Environmental Building Design

Year 2

Autumn session

301220.1 Civil and Substructure
300723.3 Development Control

And two electives or Major units

Spring session

200101.7 Accounting Information for Managers
301085.2 Built Heritage

And two electives or Major units

Year 3

Autumn session

301221.1 Building Superstructure
301086.2 Design Brief Formulation

And two electives or Major units

Spring session

200292.2 Building Law
301087.2 Building Design Process

And two electives or Major units

Year 4

Autumn session

301231.1 Residential Building Project
301159.2 Modern Construction Projects

Choose one of the following 20 credit point units

301099.2 Building Design Project 1
301101.2 Building Design Project 1 (Honours)

Spring session

301232.1 Complex Building Project
301158.2 Modern Construction Enterprises

Choose one of the following 20 credit point units

301100.2 Building Design Project 2
301102.2 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.

300724.3 Industry Based Learning

Majors

M3127.1 Architecture

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 Construction Management (Honours)

3762.2

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 2021 or later.

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

This course will graduate students with the skills necessary to perform competently at a professional level in the building industry. Students will develop specialised skills in four concentrated areas alongside a broad-based view of the construction industry and its operations. The four concentrated areas, related to the delivery of construction projects are construction technology; construction economics; construction law; and construction resource management.

The honours component of this course develops higher level research skills as students engage in research tasks and make evidence-based decisions relate to real world industry problems. To ensure students are work ready upon graduation a total of 1,200 hours approved, mandatory practical experience is also completed during the course.

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

Accreditation

The Bachelor of Construction Management (Honours) is accredited with the Australian Institute of Building and the Chartered 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.

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 required: HSC Mathematics 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

301226.1	Residential Building
301228.1	Drawing and CAD
301213.2	Construction Communication
301061.2	Construction Work Safety

Spring

301227.1	Non-Residential Building
301219.1	Building Science
301224.1	Contract Administration
301062.2	Environmental Building Design

Year 2

Autumn

301220.1	Civil and Substructure
301208.2	Building Measurement

And two electives

Spring

200101.7	Accounting Information for Managers
301207.2	Building Estimates and Tendering

And two electives

Year 3

Autumn

301221.1	Building Superstructure
301229.1	Construction Project Management

And two electives

Spring

200292.2	Building Law
301230.1	Construction Scheduling

And two electives

Year 4

Autumn

200504.4	Construction Economics
301231.1	Residential Building Project
301243.1	Construction Research Methods

(Note; 301243 Construction Research Methods is a 20 credit point unit)

Spring

301222.1	Envelope and Services
301232.1	Complex Building Project

Choose one of

301223.1	Construction Research Project
301244.1	Construction Thesis

(Note; 301223 Construction Research Project and 301244 Construction Thesis are 20 credit point units)

Industrial Experience

All students enrolled in Bachelor of Construction Management (Honours) 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.

300724.3	Industry Based Learning
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Major elective spaces

Elective units may be used toward obtaining an additional approved major (80 credit points).

MT3035.1	Quantity Surveying
MT3036.1	Building Surveying

Optional Electives

Students may choose eight electives from the following list or any from the specialisations listed above in order to graduate without a key program. Other free electives are also available.

301233.1	Advanced Building Measurement
301234.1	Building Cost Studies
301224.1	Contract Administration
301225.1	Digital Construction
300885.2	Building Regulations Studies
301105.2	Negotiation in the Built Environment
200292.2	Building Law
301085.2	Built Heritage
300723.3	Development Control
301086.2	Design Brief Formulation
301087.2	Building Design Process
300053.5	Professional Practice
301158.2	Modern Construction Enterprises
301159.2	Modern Construction Projects

Bachelor of Construction Management Studies (exit only)

3697.5

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year for this course is 2021 or later.

This is an early exit course only. Applicants apply to 2769.5 - 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
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal
Penrith Campus	Full Time	Internal
Penrith Campus	Part Time	Internal

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

200977.3	Fundamentals of Australian Law
200010.3	Criminal Law
301226.1	Residential Building
301228.1	Drawing and CAD

Spring session

200978.4	Legal Analysis and Critique
200008.7	Torts Law
301227.1	Non-Residential Building
200101.7	Accounting Information for Managers

Year 2

Autumn session

200011.2	Contracts
301208.2	Building Measurement
300723.3	Development Control
301220.1	Civil and Substructure

Spring session

200811.6	Alternative Dispute Resolution
301224.1	Contract Administration
301207.2	Building Estimates and Tendering
300885.2	Building Regulations Studies

Year 3

Autumn session

200020.5	Professional Responsibility and Legal Ethics
301221.1	Building Superstructure
301229.1	Construction Project Management
301231.1	Residential Building Project

Spring session

200984.1	Government and Public Law
301222.1	Envelope and Services
301232.1	Complex Building Project
301230.1	Construction Scheduling

and

300724.3	Industry Based Learning
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(1200 hours) (0 credit points)

Bachelor of Construction Technology

3692.5

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 2021 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 construction industry in many roles including; Site Manager, Building Supervisor, Estimator and Building Surveyor. 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 projects; construction technology, construction economics, construction law and construction resource management. This 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

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 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. 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 240 credit points which include the units listed in the recommended sequence below.

Recommended Sequence

Year 1

Autumn session

301226.1	Residential Building
301228.1	Drawing and CAD
301213.2	Construction Communication
301061.2	Construction Work Safety

Spring session

301224.1	Contract Administration
301062.2	Environmental Building Design
301227.1	Non-Residential Building
301219.1	Building Science

Year 2

Autumn session

301220.1	Civil and Substructure
301208.2	Building Measurement
300723.3	Development Control

And one elective

Spring session

200101.7	Accounting Information for Managers
301207.2	Building Estimates and Tendering
300885.2	Building Regulations Studies

And one elective

Year 3

Autumn session

301105.2	Negotiation in the Built Environment
301229.1	Construction Project Management
301221.1	Building Superstructure

And one elective

Spring session

301230.1	Construction Scheduling
300053.5	Professional Practice
200292.2	Building Law

And one elective

Please note

Students may choose electives from any course at Western Sydney University

Bachelor of Design and Technology

3729.4

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 2021 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 Design and Technology degree provides a sound knowledge in a broad range of work-ready design skills, including thinking methods, drawing skills for creativity, design innovation, product design, human factors, design management, and 2D and 3D CAD. This course can lead to multiple career outcomes, including product design, packaging, 3D modelling, rapid prototyping with 3D printing, design for sustainability, new product-oriented Start-Up, or secondary school teaching (with additional qualifications). Specialisation study includes Design Practice, Graphic Design, Cultural Studies, UX, Manufacturing, and Sustainable Futures. Students wishing to become industrial designers can articulate in the fourth year of the Bachelor of Industrial Design.

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

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

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

Students may be required to travel to different Western Sydney University campuses to complete the elements of their course.

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

Start year Intake

Year 1

Autumn session

301280.1	Human Centred Design Research Methods
301281.1	Designing for Circular Economy
301282.1	Co-Designing Change with Local Communities
301283.1	Design Graphics: Presenting Innovation

Spring session

301284.1	Designing for User Experience (UX)
301285.1	Drawing Skills for Design Thinking
301286.1	Designing for People: Applied Ergonomics
301287.1	Design Graphics: Engineering Documentation

Year 2

Autumn session

301288.1	Sustainable Materials and Smart Manufacturing
301289.1	Design Semantics: Exploring Product Form
301290.1	Design Graphics: Communication for Manufacture

And one Major, Sub-Major or Alternate units

Spring session

301292.1	Biomechanics in Product Innovation
301301.1	Design Thinking for Successful Brands and Products

And two Major, Sub-Major or Alternate units

Year 3

Autumn session

301294.2	Studio: Interdisciplinary Global
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And three Major, Sub-Major or Alternate units

Spring session

301306.1 Simulation in Virtual and Augmented Realities

And two Major, Sub-Major or Alternate units

Autumn Alternate Unit Pool

301308.1 Design Practice: Sustainable Manufacturing
101755.2 From Ochre to Acrylics to New Technologies
101751.2 Contextualising Indigenous Australia (Day Mode)
200863.1 Leadership and Entrepreneurship
101184.4 Psychology: Human Behaviour
101569.3 Sustainable Futures
301291.2 Design Research Methods (Advanced)

Spring Alternate Unit Pool

301293.1 Designing for Circular Economy (Advanced)
301165.3 Incubator 1: Innovation and Creativity for Entrepreneurship
301401.1 Mentored Practice in Design Innovation
301309.1 Design Practice: Sustainable Components
301304.1 Start-Up Product Launch
301062.2 Environmental Building Design

Full-Time Mid-year Intake

Year 1

Spring session

301284.1 Designing for User Experience (UX)
301285.1 Drawing Skills for Design Thinking
301286.1 Designing for People: Applied Ergonomics
301287.1 Design Graphics: Engineering Documentation

Autumn session

301280.1 Human Centred Design Research Methods
301281.1 Designing for Circular Economy
301283.1 Design Graphics: Presenting Innovation
301290.1 Design Graphics: Communication for Manufacture

Year 2

Spring session

301292.1 Biomechanics in Product Innovation
301301.1 Design Thinking for Successful Brands and Products

And two Major, Sub-Major or Alternate units

Autumn session

301282.1 Co-Designing Change with Local Communities
301288.1 Sustainable Materials and Smart Manufacturing
301289.1 Design Semantics: Exploring Product Form

And one Major, Sub-Major or Alternate units

Year 3

Spring session

301402.1 Studio: Design Synthesis Capstone
301306.1 Simulation in Virtual and Augmented Realities

And two Major, Sub-Major or Alternate units

Autumn Session

301294.2 Studio: Interdisciplinary Global

And three Major, Sub-Major or Alternate units

Autumn Alternate Unit Pool

301308.1 Design Practice: Sustainable Manufacturing
101755.2 From Ochre to Acrylics to New Technologies
101751.2 Contextualising Indigenous Australia (Day Mode)
200862.1 Creating Change and Innovation
200863.1 Leadership and Entrepreneurship
101184.4 Psychology: Human Behaviour
101569.3 Sustainable Futures
301291.2 Design Research Methods (Advanced)

Spring Alternate Unit Pool

301293.1 Designing for Circular Economy (Advanced)
301165.4 Incubator 1: Innovation and Creativity for Entrepreneurship
301401.1 Mentored Practice in Design Innovation
301309.1 Design Practice: Sustainable Components
301304.1 Start-Up Product Launch
301062.2 Environmental Building Design

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.

M3129.1 Design Practice
M3126.1 Technology Entrepreneurship
SM3111.1 Design Practice
SM3112.1 Sustainable Futures
SM3094.1 Construction Economics
SM1049.1 Indigenous Australian Studies
SM1068.1 Social Ecology
SM1070.1 Cultural and Social Analysis
SM1118.1 Graphic Design

Bachelor of Industrial Design

3730.4

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 2021 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 provides students with the knowledge to create a career as an industrial designer involved in new product development, and collaborative leadership at the forefront of innovation and creativity. Students are engaged in industry-driven curriculum content over four years of study with a focus on the latest advances in sustainable materials, smart manufacturing, sustainability, human factors research, and design innovation in realising breakthrough products and services while improving the quality of life through good design. Specialisations in strategic design management, business model innovation, digital innovation, sustainable futures and design practice, help students who wish to pursue a corporate design role, or build their own start-up business generating new value and driving dynamic careers.

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

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.

Recommended Sequence

Full-Time Start Intake

Year 1

Autumn session

301280.1	Human Centred Design Research Methods
301281.1	Designing for Circular Economy
301282.1	Co-Designing Change with Local Communities
301283.1	Design Graphics: Presenting Innovation

Spring session

301284.1	Designing for User Experience (UX)
301285.1	Drawing Skills for Design Thinking
301286.1	Designing for People: Applied Ergonomics
301287.1	Design Graphics: Engineering Documentation

Year 2

Autumn session

301288.1	Sustainable Materials and Smart Manufacturing
301289.1	Design Semantics: Exploring Product Form
301290.1	Design Graphics: Communication for Manufacture

One Major/Sub-Major or Alternate unit

Spring session

301292.1	Biomechanics in Product Innovation
301301.1	Design Thinking for Successful Brands and Products
301293.1	Designing for Circular Economy (Advanced)

One Major/Sub-Major or Alternate unit

Year 3

Autumn session

301294.2	Studio: Interdisciplinary Global
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Three Major/Sub-Major or Alternate units

Spring session

301402.1	Studio: Design Synthesis Capstone
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Three Major/Sub-Major or Alternate units

Year 4**Autumn session**

- 301297.1** Industrial Design Major Project (Ideation)
301308.1 Design Practice: Sustainable Manufacturing
301291.2 Design Research Methods (Advanced)

One Alternate unit

Spring session

- 301298.1** Industrial Design Major Project (Conclusion)

Note: 301298 is a 20 credit point unit

- 301401.1** Mentored Practice in Design Innovation
301309.1 Design Practice: Sustainable Components

Autumn Alternate Unit Pool

- 101755.2** From Ochre to Acrylics to New Technologies

(Indigenous content)

- 101751.2** Contextualising Indigenous Australia (Day Mode)
200862.1 Creating Change and Innovation
200863.1 Leadership and Entrepreneurship
101184.4 Psychology: Human Behaviour
101569.3 Sustainable Futures
301086.2 Design Brief Formulation

Spring Alternate Unit Pool

- 301302.1** Design Thinking for Competitive Advantage
301165.3 Incubator 1: Innovation and Creativity for Entrepreneurship
301304.1 Start-Up Product Launch
301062.2 Environmental Building Design
200587.2 Strategic Management
301306.1 Simulation in Virtual and Augmented Realities
200862.1 Creating Change and Innovation
301219.1 Building Science

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

- 301284.1** Designing for User Experience (UX)
301285.1 Drawing Skills for Design Thinking
301286.1 Designing for People: Applied Ergonomics
301287.1 Design Graphics: Engineering Documentation

Autumn session

- 301280.1** Human Centred Design Research Methods
301281.1 Designing for Circular Economy
301283.1 Design Graphics: Presenting Innovation
301290.1 Design Graphics: Communication for Manufacture

Year 2**Spring session**

- 301292.1** Biomechanics in Product Innovation
301301.1 Design Thinking for Successful Brands and Products

Two Major/Sub-Major or Alternate units

Autumn session

- 301282.1** Co-Designing Change with Local Communities
301288.1 Sustainable Materials and Smart Manufacturing
301289.1 Design Semantics: Exploring Product Form

One Major/Sub Major or Alternate unit

Year 3**Spring session**

- 301402.1** Studio: Design Synthesis Capstone
301293.1 Designing for Circular Economy (Advanced)

Two Major/Sub Major or Alternate units

Autumn session

- 301294.2** Studio: Interdisciplinary Global

Three Major/Sub-Major or Alternate units

Year 4**Spring session**

- 301298.1** Industrial Design Major Project (Conclusion)

Note: 301298 Industrial Design Major Project (Conclusion) is a 20 credit point unit

- 301401.1** Mentored Practice in Design Innovation
301309.1 Design Practice: Sustainable Components

Autumn session

- 301297.1** Industrial Design Major Project (Ideation)
301308.1 Design Practice: Sustainable Manufacturing
301291.2 Design Research Methods (Advanced)

One Alternate unit

Autumn Alternate Unit Pool

- 101755.2** From Ochre to Acrylics to New Technologies

(Indigenous content)

- 101751.2** Contextualising Indigenous Australia (Day Mode)
200862.1 Creating Change and Innovation
200863.1 Leadership and Entrepreneurship
101184.4 Psychology: Human Behaviour
101569.3 Sustainable Futures
301086.2 Design Brief Formulation

Spring Alternate Unit Pool

301302.1	Design Thinking for Competitive Advantage
301165.3	Incubator 1: Innovation and Creativity for Entrepreneurship
301304.1	Start-Up Product Launch
301062.2	Environmental Building Design
200587.2	Strategic Management
301306.1	Simulation in Virtual and Augmented Realities
200862.1	Creating Change and Innovation
301219.1	Building Science

Major 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.

M3129.1	Design Practice
M3126.1	Technology Entrepreneurship
SM3111.1	Design Practice
SM3112.1	Sustainable Futures
SM3094.1	Construction Economics
SM1049.1	Indigenous Australian Studies
SM1068.1	Social Ecology
SM1070.1	Cultural and Social Analysis
SM1118.1	Graphic Design

Bachelor of Industrial Design (Honours)

3731.4

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 2021 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 (Honours) is a four-year program with specialisations that build significant support for the final year research thesis and applied design research project. The Design Research pathway central to Honours is developed to meet the demands of industry and academia in creating new contributions to the body of knowledge in innovation, systems thinking, design thinking, and social innovation. The curriculum offers structured and self-directed learning across standard class formats, studio-based, blended online and experiential Work Integrated Learning with focus on advanced design research methods drawn from industry-based design practice providing graduates with multi-directional employment pathways.

Study Mode

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

Location

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Full Time	Internal

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Part Time	Internal

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.

Recommended Sequence

Full-Time Start Intake

Year 1

Autumn session

301280.1	Human Centred Design Research Methods
301281.1	Designing for Circular Economy
301282.1	Co-Designing Change with Local Communities
301283.1	Design Graphics: Presenting Innovation

Spring session

- 301284.1** Designing for User Experience (UX)
301285.1 Drawing Skills for Design Thinking
301286.1 Designing for People: Applied Ergonomics
301287.1 Design Graphics: Engineering Documentation

Year 2**Autumn session**

- 301288.1** Sustainable Materials and Smart Manufacturing
301289.1 Design Semantics: Exploring Product Form
301290.1 Design Graphics: Communication for Manufacture

One Major/Sub-Major or Alternate unit

Spring session

- 301292.1** Biomechanics in Product Innovation
301301.1 Design Thinking for Successful Brands and Products
301293.1 Designing for Circular Economy (Advanced)

One Major/Sub-Major or Alternate unit

Year 3**Autumn session**

- 301294.2** Studio: Interdisciplinary Global

Three Major/Sub-Major or Alternate unit

Spring session

- 301402.1** Studio: Design Synthesis Capstone

Three Major/Sub-Major or Alternate units

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

- 301299.1** Industrial Design Applied Research Project (Honours)

Note: 301299 Industrial Design Applied Research Project (Honours) is a 20 credit point unit

- 301308.1** Design Practice: Sustainable Manufacturing
301291.2 Design Research Methods (Advanced)

Spring session

- 301300.1** Industrial Design Research Thesis (Honours)

Note: 301300 Industrial Design Research Thesis (Honours) is a 20 credit point unit

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

- 301401.1** Mentored Practice in Design Innovation
301309.1 Design Practice: Sustainable Components

Autumn Alternate Unit Pool

- 101755.2** From Ochre to Acrylics to New Technologies
101751.2 Contextualising Indigenous Australia (Day Mode)
200863.1 Leadership and Entrepreneurship
101184.4 Psychology: Human Behaviour
101569.3 Sustainable Futures
301086.2 Design Brief Formulation

Spring Alternate Unit Pool

- 301302.1** Design Thinking for Competitive Advantage
301165.3 Incubator 1: Innovation and Creativity for Entrepreneurship
301304.1 Start-Up Product Launch
301062.2 Environmental Building Design
200587.2 Strategic Management
301306.1 Simulation in Virtual and Augmented Realities
200862.1 Creating Change and Innovation
301219.1 Building Science

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

- 301284.1** Designing for User Experience (UX)
301285.1 Drawing Skills for Design Thinking
301286.1 Designing for People: Applied Ergonomics
301287.1 Design Graphics: Engineering Documentation

Autumn session

- 301280.1** Human Centred Design Research Methods
301281.1 Designing for Circular Economy
301283.1 Design Graphics: Presenting Innovation
301290.1 Design Graphics: Communication for Manufacture

Year 2**Spring session**

- 301292.1** Biomechanics in Product Innovation
301301.1 Design Thinking for Successful Brands and Products
301293.1 Designing for Circular Economy (Advanced)

One Major/Sub-Major or Alternate units

Autumn session

- 301282.1** Co-Designing Change with Local Communities
301288.1 Sustainable Materials and Smart Manufacturing
301289.1 Design Semantics: Exploring Product Form

One Major/Sub-Major or Alternate unit

Year 3**Spring session****301402.1** Studio: Design Synthesis Capstone

Three Major/Sub-Major or Alternate units

Autumn session**301294.2** Studio: Interdisciplinary Global

Three Major/Sub-Major or Alternate units

Year 4**Honours****Spring session****301300.1** Industrial Design Research Thesis (Honours)

Note: 301300 Industrial Design Research Thesis (Honours) is a 20 credit point unit

301401.1 Mentored Practice in Design Innovation
301309.1 Design Practice: Sustainable Components**Autumn session****301299.1** Industrial Design Applied Research Project (Honours)

Note: 301299 Industrial Design Applied Research Project (Honours) is a 20 credit point unit

301308.1 Design Practice: Sustainable Manufacturing
301291.2 Design Research Methods (Advanced)**Autumn Alternate Unit Pool****101755.2** From Ochre to Acrylics to New Technologies
101751.2 Contextualising Indigenous Australia (Day Mode)**200862.1** Creating Change and Innovation
200863.1 Leadership and Entrepreneurship
101184.4 Psychology: Human Behaviour
101569.3 Sustainable Futures
301086.2 Design Brief Formulation**Spring Alternate Unit Pool****301302.1** Design Thinking for Competitive Advantage
301165.3 Incubator 1: Innovation and Creativity for Entrepreneurship**301304.1** Start-Up Product Launch
301062.2 Environmental Building Design
200587.2 Strategic Management
301306.1 Simulation in Virtual and Augmented Realities**200862.1** Creating Change and Innovation
301219.1 Building Science**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.

M3129.1	Design Practice
M3126.1	Technology Entrepreneurship
SM3111.1	Design Practice
SM3112.1	Sustainable Futures
SM3094.1	Construction Economics
SM1049.1	Indigenous Australian Studies
SM1068.1	Social Ecology
SM1070.1	Cultural and Social Analysis
SM1118.1	Graphic Design

**Diploma in Building Design Management/
Bachelor of Building Design Management****6031.2**

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 2021 or later

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 an environment focused specifically on supporting students to make the transition into university study

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

Campus	Attendance	Mode	700304.1	Residential Building (WSTC)
Penrith Campus	Part Time	Internal	700290.1	Construction Communication (WSTC)
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 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 with 70% or higher 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 with 70% or higher 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.

For further information regarding English Language Entry Requirements, please see:

Course Structure

Qualification for this award requires the successful completion of 340 credit points which include the units listed in the recommended sequence below.

The early exit College Diploma consists of 100 credit points which includes two College Preparatory units

Western Sydney University The College Units

Nirimba Campus

Year 1

First Term of Study

- 700319.1 Essential Literacy for Construction Professionals II (WSTC Prep)
- 700318.1 Building Calculations (WSTC Prep)

- 700304.1 Residential Building (WSTC)
- 700290.1 Construction Communication (WSTC)

Second Term of Study

- 700254.1 Enterprise Law (WSTC)
- 700308.1 Building Science (WSTC)
- 700306.1 Drawing and CAD (WSTC)

Third Term of Study

- 700256.2 Construction Work Safety (WSTC)
- 700305.1 Non-Residential Building (WSTC)
- 700255.2 Environmental Building Design (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

- 301220.1 Civil and Substructure
- 301208.2 Building Measurement
- 300723.3 Development Control

And one elective

Spring session

- 200101.7 Accounting Information for Managers
- 301207.2 Building Estimates and Tendering
- 301085.2 Built Heritage

And one elective

Year 3

Autumn session

- 301221.1 Building Superstructure
- 301229.1 Construction Project Management
- 301086.2 Design Brief Formulation

And one elective

Spring session

- 200292.2 Building Law
- 301230.1 Construction Scheduling
- 301087.2 Building Design Process

And one elective

Year 4**Autumn session**

- 301231.1** Residential Building Project
301159.2 Modern Construction Projects

Choose one of

- 301099.2** Building Design Project 1
301101.2 Building Design Project 1 (Honours)

Spring session

- 301232.1** Complex Building Project
301158.2 Modern Construction Enterprises

Choose one of

- 301100.2** Building Design Project 2
301102.2 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.

- 300724.3** Industry Based Learning

Diploma in Building Design Management (exit only)**7108.2**

The Diploma in Building Design Management is available as an exit point only from 6031 - Diploma in Building Design Management/Bachelor of Building Design Management

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year is 2021 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 an environment focused specifically on supporting students to make the transition into university study. 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**This course is an exit award only**

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 with 70% or higher 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 with 70% or higher 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.

For further information regarding English Language Entry Requirements, please see:

Course Structure

This course is an exit award only

The early exit College Diploma consists of 100 credit points which includes two College Preparatory units.

Students must pass the following preparatory level units for which no advanced standing will be granted in the University degree program.

700318.1	Building Calculations (WSTC Prep)
700319.1	Essential Literacy for Construction Professionals II (WSTC Prep)

Students must pass the following core University level units

700256.2	Construction Work Safety (WSTC)
700290.1	Construction Communication (WSTC)
700254.1	Enterprise Law (WSTC)
700304.1	Residential Building (WSTC)
700308.1	Building Science (WSTC)
700306.1	Drawing and CAD (WSTC)
700305.1	Non-Residential Building (WSTC)
700255.2	Environmental Building Design (WSTC)

Diploma in Construction Technology/ Bachelor of Construction Technology

6045.1

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 2021 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 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 Master of Project 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 an environment focused specifically on supporting students to make the transition into university study. A Diploma in

Construction Technology exit point is also available at the end of the first year of the course.

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

Four years full-time or eight 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

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 with 70% or higher, 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 with 70% or higher, 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.

The early exit College Diploma consists of 100 credit points which includes two College Preparatory units.

Western Sydney University The College Units

Nirimba Campus

Please note that all campuses may not have intakes each year.

Year 1

First Term of Study

700319.1	Essential Literacy for Construction Professionals II (WSTC Prep)
700318.1	Building Calculations (WSTC Prep)
700290.1	Construction Communication (WSTC)
700304.1	Residential Building (WSTC)

Second Term of Study

700254.1	Enterprise Law (WSTC)
700308.1	Building Science (WSTC)
700306.1	Drawing and CAD (WSTC)

Third Term of Study

700256.2	Construction Work Safety (WSTC)
700305.1	Non-Residential Building (WSTC)
700255.2	Environmental Building Design (WSTC)

Students may exit at this point and graduate with the Diploma in Construction Technology 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

301220.1	Civil and Substructure
301208.2	Building Measurement
300723.3	Development Control

And one elective

Spring session

200101.7	Accounting Information for Managers
301207.2	Building Estimates and Tendering
300885.2	Building Regulations Studies

And one elective

Year 3

Autumn session

301105.2	Negotiation in the Built Environment
301229.1	Construction Project Management
301221.1	Building Superstructure

And one elective

Spring session

301230.1	Construction Scheduling
300053.5	Professional Practice
200292.2	Building Law

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 majors and sub-majors in a range of areas including Sustainability and Indigenous Studies.

Students can apply for an elective sub-major via MySR

Diploma in Construction Technology (Exit only)

7169.1

The Diploma in Construction Technology is available as an exit point only from 6045 - Diploma in Construction Technology/Bachelor of Construction Technology

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 1, 2021 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 Technology degree. It presents students with a range of units covering the science, building and technology aspects of construction and aims to prepare students for study beyond the first year of the Bachelor of Construction Technology degree. 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. It is delivered in an environment focused specifically on supporting students to make the

transition into university study. Students who successfully complete the Diploma in Construction Technology will articulate into the Bachelor of Construction Technology 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

This course is an exit award only

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 with 70% or higher 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 with 70% or higher 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

This course is an exit award only

Qualification for this award requires the successful completion of the units listed below.

The early exit College Diploma consists of 100 credit points which includes College Preparatory units.

700308.1	Building Science (WSTC)
700256.2	Construction Work Safety (WSTC)
700290.1	Construction Communication (WSTC)
700306.1	Drawing and CAD (WSTC)
700254.1	Enterprise Law (WSTC)
700255.2	Environmental Building Design (WSTC)
700305.1	Non-Residential Building (WSTC)
700304.1	Residential Building (WSTC)

Students must pass the following preparatory level units for which no advanced standing will be granted in the University degree program

700318.1	Building Calculations (WSTC Prep)
700319.1	Essential Literacy for Construction Professionals II (WSTC Prep)

Diploma in Building Design Management Extended

7136.2

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 Term 3, 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 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 an environment focused specifically on supporting students to make the transition into university study.

Students who successfully complete this Diploma will articulate into the Building Design Management 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

Qualification for this award requires the successful completion of 140 credit points which include the units listed in the pathways below.

Students are categorised into three Pathways. See individual links below for detailed course structure.

Local Recent School Leavers

A7286.1	WSTC Building Design Management Extended - Local Recent School Leavers
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Non-Credentialed Applicants

A7287.1	WSTC Building Design Management Extended - Non-Credentialed
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International Students

A7288.1	WSTC Building Design Management Extended - International
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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)

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 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 80 credit points which include the units listed in the recommended sequence below.

700005.7	Accounting Information for Managers (WSTC)
700071.3	Building 2 (WSTC)
700126.4	Design Science (WSTC)
700254.1	Enterprise Law (WSTC)
700252.1	Enterprise Leadership (WSTC)
700150.3	Graphic Communication and Design (WSTC)
700154.2	Professional Competencies (WSTC)
700304.1	Residential Building (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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Replaced Units

The units listed below count towards completion of this course for students who passed these units in 2020 or earlier.

700070 - Building 1 (WSTC)

Diploma in Construction Technology Extended

7165.2

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 Term 3, 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 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 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 an environment focused specifically on supporting students to make the transition into university study.

Students who successfully complete this Diploma will articulate into the Construction 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)

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

Qualification for this award requires the successful completion of 140 credit points which include the units listed in the pathways below.

Students are categorised into three Pathways. See individual links below for detailed course structure.

Local Recent School Leavers

A7283.1	WSTC Construction Technology Extended - Recent School Leavers
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Non-Credentialed Applicants

A7284.1	WSTC Construction Technology Extended - Non-credentialed
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International Students

A7285.1	WSTC Construction Technology Extended - International
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Specialisations

The College Admission Pathway - WSTC Construction Technology Extended - Recent School Leavers

A7283.1

Location

Campus	Mode
The College - Nirimba Education Precinct	Internal

Specialisation Structure

Students must be enrolled in 7165 Diploma in Construction 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

700200.2	Academic Skills for Construction Management (WSTC Prep)
700216.2	Introduction to the Australian Legal System (WSTC Prep)
700317.1	Introduction to Building Calculations (WSTC Prep)
700310.1	Essential Literacy for Construction Professionals I (WSTC Prep)

Term 2 of Study

700319.1	Essential Literacy for Construction Professionals II (WSTC Prep)
700318.1	Building Calculations (WSTC Prep)
700290.1	Construction Communication (WSTC)
700304.1	Residential Building (WSTC)

Term 3 of Study

700308.1	Building Science (WSTC)
700306.1	Drawing and CAD (WSTC)
700254.1	Enterprise Law (WSTC)

Term 4 of Study

700256.2	Construction Work Safety (WSTC)
700305.1	Non-Residential Building (WSTC)
700255.2	Environmental Building Design (WSTC)

The College Admission Pathway - WSTC Construction Technology Extended - Non-credentialed

A7284.1

Specialisation Structure

Students must be enrolled in 7165 Diploma in Construction 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

700200.2	Academic Skills for Construction Management (WSTC Prep)
700216.2	Introduction to the Australian Legal System (WSTC Prep)
700317.1	Introduction to Building Calculations (WSTC Prep)
700310.1	Essential Literacy for Construction Professionals I (WSTC Prep)

Term 2 of Study

700319.1	Essential Literacy for Construction Professionals II (WSTC Prep)
700318.1	Building Calculations (WSTC Prep)
700290.1	Construction Communication (WSTC)
700304.1	Residential Building (WSTC)

Term 3 of Study

700308.1	Building Science (WSTC)
700306.1	Drawing and CAD (WSTC)
700254.1	Enterprise Law (WSTC)

Term 4 of Study

700256.2	Construction Work Safety (WSTC)
700305.1	Non-Residential Building (WSTC)
700255.2	Environmental Building Design (WSTC)

The College Admission Pathway - WSTC Construction Technology Extended - International

A7285.1

Specialisation Structure

Students must be enrolled in 7165 Diploma in Construction 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

700200.2	Academic Skills for Construction Management (WSTC Prep)
700270.1	English for International Students 1 (WSTC Prep)
700216.2	Introduction to the Australian Legal System (WSTC Prep)
700317.1	Introduction to Building Calculations (WSTC Prep)
700310.1	Essential Literacy for Construction Professionals I (WSTC Prep)

Term 2 of Study

700319.1	Essential Literacy for Construction Professionals II (WSTC Prep)
700318.1	Building Calculations (WSTC Prep)
700290.1	Construction Communication (WSTC)
700304.1	Residential Building (WSTC)

Term 3 of Study

700308.1	Building Science (WSTC)
700306.1	Drawing and CAD (WSTC)
700254.1	Enterprise Law (WSTC)

Term 4 of Study

700256.2	Construction Work Safety (WSTC)
700305.1	Non-Residential Building (WSTC)
700255.2	Environmental Building Design (WSTC)

The College Admission Pathway - WSTC Building Design Management Extended - Local Recent School Leavers

A7286.1

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)
700216.2	Introduction to the Australian Legal System (WSTC Prep)
700317.1	Introduction to Building Calculations (WSTC Prep)
700310.1	Essential Literacy for Construction Professionals I (WSTC Prep)

Term 2 of Study

700319.1	Essential Literacy for Construction Professionals II (WSTC Prep)
700318.1	Building Calculations (WSTC Prep)
700290.1	Construction Communication (WSTC)
700304.1	Residential Building (WSTC)

Term 3 of Study

700308.1	Building Science (WSTC)
700306.1	Drawing and CAD (WSTC)
700254.1	Enterprise Law (WSTC)

Term 4 of Study

700256.2	Construction Work Safety (WSTC)
700305.1	Non-Residential Building (WSTC)
700255.2	Environmental Building Design (WSTC)

The College Admission Pathway - WSTC Building Design Management Extended - Non-Credentialed

A7287.1

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)
700216.2	Introduction to the Australian Legal System (WSTC Prep)
700317.1	Introduction to Building Calculations (WSTC Prep)
700310.1	Essential Literacy for Construction Professionals I (WSTC Prep)

Term 2 of Study

700319.1	Essential Literacy for Construction Professionals II (WSTC Prep)
700318.1	Building Calculations (WSTC Prep)
700290.1	Construction Communication (WSTC)
700304.1	Residential Building (WSTC)

Term 3 of Study

700308.1	Building Science (WSTC)
700306.1	Drawing and CAD (WSTC)
700254.1	Enterprise Law (WSTC)

Term 4 of Study

700256.2	Construction Work Safety (WSTC)
700305.1	Non-Residential Building (WSTC)
700255.2	Environmental Building Design (WSTC)

The College Admission Pathway - WSTC Building Design Management Extended - International**A7288.1****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)
700216.2	Introduction to the Australian Legal System (WSTC Prep)
700317.1	Introduction to Building Calculations (WSTC Prep)
700310.1	Essential Literacy for Construction Professionals I (WSTC Prep)
700270.1	English for International Students 1 (WSTC Prep)

Term 2 of Study

700319.1	Essential Literacy for Construction Professionals II (WSTC Prep)
700318.1	Building Calculations (WSTC Prep)
700290.1	Construction Communication (WSTC)
700304.1	Residential Building (WSTC)

Term 3 of Study

700308.1	Building Science (WSTC)
700306.1	Drawing and CAD (WSTC)
700254.1	Enterprise Law (WSTC)

Term 4 of Study

700256.2	Construction Work Safety (WSTC)
700305.1	Non-Residential Building (WSTC)
700255.2	Environmental Building Design (WSTC)

Major - Technology Entrepreneurship**M3126.1**

The Technology Entrepreneurship major is focused on guiding students through all stages of turning their innovative idea into a start-up company. In an entrepreneurial ecosystem, you will learn the knowledge and techniques for opportunity discovery, impact analysis, customer analysis, strategic team-building and leadership, the psychology and ethics of the start-up, funding modelling and financial analysis, growth and exit strategies. We will be helping you with defining your idea, forming a team around it, building a prototype, developing a pitch for investors and running a start-up company.

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Students in courses 3506, 3634 must complete 80 credit points as follows

300580.4	Programming Fundamentals
100483.2	Principles of Professional Communication 1
301165.4	Incubator 1: Innovation and Creativity for Entrepreneurship
301206.3	Incubator 2: Start-up Essentials
301168.2	Incubator 3: Product Development
301169.2	Incubator 4: Commercial and Financial Setting of Entrepreneurship
301170.2	Incubator 5: Operational Aspects of Entrepreneurship
301171.2	Incubator 6: Funding and Start-up

Students in courses 3639, 3684, 3687, 3688 must complete 80 credit points as follows

301165.4	Incubator 1: Innovation and Creativity for Entrepreneurship
301206.3	Incubator 2: Start-up Essentials
301168.2	Incubator 3: Product Development
301169.2	Incubator 4: Commercial and Financial Setting of Entrepreneurship
301170.2	Incubator 5: Operational Aspects of Entrepreneurship
301171.2	Incubator 6: Funding and Start-up
301172.3	Incubator 7: Growth and Exit Strategies

200979.2 Foundations of Entrepreneurship

Students in courses 3730, 3731 must complete 80 credit points as follows

301165.4 Incubator 1: Innovation and Creativity for Entrepreneurship
301206.3 Incubator 2: Start-up Essentials
301168.2 Incubator 3: Product Development
301169.2 Incubator 4: Commercial and Financial Setting of Entrepreneurship
301170.2 Incubator 5: Operational Aspects of Entrepreneurship
301171.2 Incubator 6: Funding and Start-up
301172.3 Incubator 7: Growth and Exit Strategies

Choose one of

200979.2 Foundations of Entrepreneurship
300580.4 Programming Fundamentals
100483.2 Principles of Professional Communication 1

Major - Architecture

M3127.1

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must complete 80 credit points as follows

Year 2

Autumn

101589.3 Cities: Introduction to Urban Studies
301283.1 Design Graphics: Presenting Innovation

Year 2

Spring

301198.3 Architecture Studio - Fundamentals of Digital Design

Year 3

Autumn

301197.2 Architecture Studio - Fundamentals of Analogue Design

Spring

301316.1 Architecture Studio: Urban Architecture

Electives

Elective recommendations are available in the course vUWS page which students will have access to after enrolling. Other electives considered in consultation with an Academic Course Advisor

Major - Design Practice

M3129.1

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must complete 80 credit points as follows

301302.1 Design Thinking for Competitive Advantage
301304.1 Start-Up Product Launch
200862.1 Creating Change and Innovation
301306.1 Simulation in Virtual and Augmented Realities
301170.2 Incubator 5: Operational Aspects of Entrepreneurship
301165.3 Incubator 1: Innovation and Creativity for Entrepreneurship

Choose two of

301206.3 Incubator 2: Start-up Essentials
301158.2 Modern Construction Enterprises
301168.2 Incubator 3: Product Development

Major - Quantity Surveying

MT3035.1

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Elective units may be used toward obtaining an additional approved major (80 credit points).

Choose 8 from

301233.1 Advanced Building Measurement
301234.1 Building Cost Studies
300885.2 Building Regulations Studies
200503.3 Construction Information Systems
301225.1 Digital Construction
200909.2 Enterprise Law
301158.2 Modern Construction Enterprises
301159.2 Modern Construction Projects
300053.5 Professional Practice
200602.2 Principles of Valuation
200874.1 Property Development Process
300748.3 Quality and Value Management

The units listed below count towards completion of the major for students who may have passed these units in 2020 or earlier.

301224 - Contract Administration

Major - Building Surveying

MT3036.1

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Elective units may be used toward obtaining an additional approved major (80 credit points).

Choose 8 from

301085.2	Built Heritage
200292.2	Building Law
300885.2	Building Regulations Studies
200503.3	Construction Information Systems
300723.3	Development Control
200909.2	Enterprise Law
301158.2	Modern Construction Enterprises
301159.2	Modern Construction Projects
301105.2	Negotiation in the Built Environment
300053.5	Professional Practice
200874.1	Property Development Process
300748.3	Quality and Value Management
301399.1	Sustainable Construction Materials

The units listed below count towards completion of the major for students who may have passed these units in 2020 or earlier.

301224 - Contract Administration

300748 - Quality and Value Management

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
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 pool

Level 1 unit

102805.1 Indigenous Landscapes

Level 2 units

101752.2 Pigments of the Imagination

101753.3 Revaluing Indigenous Economics (Day Mode)

101754.3 From Corroborees to Curtain Raisers (Day Mode)

101755.2 From Ochre to Acrylics to New Technologies

Level 3 units

101756.2 Bridging the Gap: Re-engaging Indigenous Learners

101757.2 The Making of the 'Aborigines'

101758.2 Learning through Indigenous Australian Community Service (Day Mode)

101759.2 Rethinking Research with Indigenous Australians: Independent Study Project (Day Mode)

Equivalent Specialisation Units

The Level 3 unit listed below counts towards completion of the Sub-major for students who successfully completed the unit in 2019 or earlier.

100961 - Humanities Internship

The Level 1 unit listed below counts towards completion of the Sub-major for students who successfully completed the unit in Autumn 2020 or earlier.

101878 - Indigenous Landscapes

Sub-major - Social Ecology

SM1068.1

The Social Ecology sub-major explores the rich diversity of relationships between the individual, society and environment. Social Ecology embraces a transdisciplinary approach to learning emphasising reflective thinking, criticality, creativity, participation and communication. Students develop skills in ecologically informed analysis, creative thinking and action, social and environmental relationships and transformative education with an emphasis on sustainability, social change and leadership. The sub-major in Social Ecology is available as an elective package to students across all degrees. Students may also choose any Social Ecology unit as a single elective.

Location

Campus	Mode
Bankstown Campus	Internal

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Students may take out a Social Ecology sub-major by completing 40 Credit Points from the following pool of units.

101259.3	Learning and Creativity
101263.1	Education and Transformation
101663.2	Education for Sustainability
101569.3	Sustainable Futures
101874.3	Experiential Learning in Communities (ELC)

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
102529.2	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
101468.2	Islam, Media and Conflict

102781.1	Labour and Culture
102789.1	Philosophy of Race and Racism
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

The Level 3 unit listed below counts towards completion of the Sub-major for students who successfully completed the unit in 2019 or earlier.

100961 - Humanities Internship

Sub-major - Graphic Design**SM1118.1**

The Graphic Design sub-major provides students from outside the Design program with an introduction to fundamental skills and knowledge in graphic design. The sub-major includes a selection of practice-based and theoretical units and you can opt for study areas such as image design, contextual design studies, web design and branding. In addition, you will have the opportunity to choose a practice-based specialisation from the areas of interactive design; digital design; illustration and photomedia.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must complete 40 credit points as follows

Note: Creative Industries Students

Creative Industries students complete whichever Level 1 unit they did not complete as their introductory major unit. Unit 102263 Image Design or 101922 Web and Time-based Design.

Choose one of

102263.3	Image Design
101922.1	Web and Time-based Design

And, complete 30 credit points from the following

Or

Complete 10 credit points from the following and one of the 20 credit point Design pairings.

101923.1	Australian Design
102275.1	Contextual Design Studies
102276.2	Graphic Design: Developing a Personal Portfolio
102266.2	Researching the Visual
102274.1	Social Design: Research and Practice

Design Pairings**Illustration**

101017.5	Illustrating Narrative
102271.2	Illustrating Popular Culture

Interactive

102267.2	Interactive Design: Apps
102272.3	Interactive Design: Games

Photomedia

- 100941.5** Photomedia: Fashion and Identity
102268.2 Photomedia: Photographic Practice

Digital Design

- 102269.2** Data Visualisation
102273.3 Motion Design

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

- 200503.3** Construction Information Systems
300726.3 Estimating 2
301158.2 Modern Construction Enterprises
301159.2 Modern Construction Projects
200487.4 Quantity Surveying 2
300748.3 Quality and Value Management

Major - Design Practice**SM3111.1****Location**

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must complete 40 credit points as follows

- 301302.1** Design Thinking for Competitive Advantage
301304.1 Start-Up Product Launch
200862.1 Creating Change and Innovation
301306.1 Simulation in Virtual and Augmented Realities

Sub-major - Sustainable Futures**SM3112.1****Location**

Campus	Mode
Penrith Campus	Multi Modal

Specialisation Structure

Students must complete 40 credit points as follows

- 102805.1** Indigenous Landscapes
101569.3 Sustainable Futures

Choose one of

- 301062.2** Environmental Building Design
101870.1 Climate Change and Culture
301274.1 Environmental Planning, Policy & Regulation

Choose one of

- 102345.2** Global Structures, Local Cultures
301085.2 Built Heritage
301227.1 Non-Residential Building
300802.3 Biodiversity

SCHOOL OF COMPUTER, DATA AND MATHEMATICAL SCIENCES

Bachelor of Applied Data Science

3770.1

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 2021 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 Applied Data Science is not a stand-alone course, but is designed to be undertaken as a bolt-on in combination with any bachelor degree. In order to graduate with a Bachelor of Applied Data Science, students must have completed all requirements from their first bachelor's degree, as well as the 80 credit points required for this course. Hence students in a 3-year bachelor wishing to enrol into this course must complete a total of 320 credit points (240cps from first degree plus 80cps for the bolt-on). Likewise, students in a 4-year bachelor wishing to enrol into this course must complete a total of 400 credit points (320cps for the first degree plus 80cps for the bolt-on).

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

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

Location

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

Admission

Recommended studies: Mathematics, Computing/IT

Assumed knowledge required: Mathematics equivalent to 2 Unit HSC

To be eligible for admission, a student must attain a minimum ATAR of 75, or the equivalent rank for their primary undergraduate degree.

For current Domestic 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 bachelors degree in order to graduate with the Bachelor of Applied Data Science.

Course Structure

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

Recommended Sequence

Autumn session

301108.2	Thinking About Data
301107.2	Analytics Programming
301109.3	Visual Analytics
301110.2	Applications of Big Data

Spring session

300958.4	Social Web Analytics
301111.3	Discovery Project
301034.2	Predictive Modelling
301033.2	Introduction to Data Science

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

300700.7	Statistical Decision Making
300580.4	Programming Fundamentals
100483.2	Principles of Professional Communication 1
200025.3	Discrete Mathematics

Spring session

300096.7	Computer Organisation
300147.5	Object Oriented Programming
300104.5	Database Design and Development
300565.3	Computer Networking

Year 2

Autumn session

300167.5	Systems Programming 1
300103.5	Data Structures and Algorithms
300582.6	Technologies for Web Applications

And one elective

Spring session

300960.5	Mobile Applications Development
300128.6	Information Security
300115.4	Distributed Systems and Programming

And one elective

Year 3

Autumn session

300578.4	Professional Development
300952.3	Wireless and Mobile Networks

And two electives

Spring session

300579.7	Professional Experience
300404.3	Formal Software Engineering

And two electives

Full-time - Mid-Year Intake

Year 1

Spring session

300580.4	Programming Fundamentals
300104.5	Database Design and Development
300565.3	Computer Networking

And one elective

Autumn session

300700.7	Statistical Decision Making
100483.2	Principles of Professional Communication 1
200025.3	Discrete Mathematics

300582.6 Technologies for Web Applications

Year 2

Spring session

300096.7 Computer Organisation
300147.5 Object Oriented Programming
300960.5 Mobile Applications Development

And one elective

Autumn session

300167.5 Systems Programming 1
300103.5 Data Structures and Algorithms
300578.4 Professional Development

And one elective

Year 3

Spring session

300128.6 Information Security
300404.3 Formal Software Engineering
300115.4 Distributed Systems and Programming

And one elective

Autumn session

300579.7 Professional Experience
300952.3 Wireless and Mobile Networks

And two electives

Accelerated Pathway - Summer Sessions

Year 1

Autumn session

300700.7 Statistical Decision Making
300580.4 Programming Fundamentals
100483.2 Principles of Professional Communication 1
200025.3 Discrete Mathematics

Spring session

300096.7 Computer Organisation
300147.5 Object Oriented Programming
300104.5 Database Design and Development
300565.3 Computer Networking

Summer A session

300582.6 Technologies for Web Applications

Summer B session

300952.3 Wireless and Mobile Networks

Year 2

Autumn session

300103.5 Data Structures and Algorithms

And three electives

Spring session

300404.3 Formal Software Engineering
300128.6 Information Security
300115.4 Distributed Systems and Programming

And one elective

Summer A session

300578.4 Professional Development
300960.5 Mobile Applications Development

Year 3

Autumn session

300579.7 Professional Experience
300167.5 Systems Programming 1

And two electives

Suggested Elective Units

301174.2 Artificial Intelligence
300093.8 Computer Graphics
300095.6 Computer Networks and Internets
301124.3 Ethical Hacking Principles and Practice
300130.5 Internet Programming
301033.2 Introduction to Data Science
300143.5 Network Security
300575.3 Networked Systems Design
300698.5 Operating Systems Programming
301034.2 Predictive Modelling
301205.2 Robotic Programming
300900.3 Professional Experience (Advanced)
300958.4 Social Web Analytics
300166.4 Systems and Network Management
300165.5 Systems Administration Programming
301109.3 Visual Analytics
300583.4 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
M3126.1 Technology Entrepreneurship

Sub-major

SM3101.1 Cloud Computing

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

300586.3 Advanced Computer Science Activities 1

2H session

300586.3 Advanced Computer Science Activities 1

Year 2

1H session

300587.3 Advanced Computer Science Activities 2

2H session

300587.3 Advanced Computer Science Activities 2

Year 3

1H session

300588.3 Advanced Computer Science Activities 3

2H session

300588.3 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 Data Science

3769.1

This course commences in Autumn 2021.

Data is ubiquitous in this digital age and plays an important role in all careers. A Data Scientist has the required expertise to convert all forms of data into valuable information. This degree equips its graduates with the skills and knowledge for designing experimental studies, building and fitting models for analysis, visualisation, estimation and prediction, machine learning for prediction, analysis of complex data relationships, 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.

Study Mode

Three years full-time, 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: Students should have at least two units of HSC English, two units of HSC science (any science) and HSC Mathematics Advanced.

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 students currently completing an Australian Year 12 in or outside Australia, an International Baccalaureate in Australia or a New Zealand National Certificate of Educational Achievement (NCEA) level 3 must apply via UAC International.

All other 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 completion of 240 credit points

Students must complete 160 credit points of core units listed in the recommended sequence below.

Additionally, students must complete

- one major from the list below, OR
- two sub majors from the list below, OR
- one sub major from the list below AND 40 credit points of electives

Majors (80 credit points)

M3110.1	Artificial Intelligence
M3097.1	Health Informatics

Sub-majors (40 credit points)

SM3080.1	Astroinformatics
SM1117.1	Digital Cultures
SM2054.1	Global Sustainability
SM3025.1	Mathematics
SM3089.1	Statistics

Recommended sequence for start-year intake

Year 1

Autumn session

300811.2	Scientific Literacy
301108.2	Thinking About Data
200025.3	Discrete Mathematics
300580.4	Programming Fundamentals

Spring session

300672.3	Mathematics 1A
301033.2	Introduction to Data Science

And two major, sub major or elective units

Year 2

Autumn session

301107.2	Analytics Programming
301109.3	Visual Analytics

And two major, sub major or elective units

Spring session

301034.2	Predictive Modelling
300104.5	Database Design and Development
300958.4	Social Web Analytics
301031.3	Computer Algebra

Year 3**Autumn session**

- 301110.2** Applications of Big Data
301250.1 Probabilistic Models and Inference
300578.4 Professional Development

And one major, sub major or elective unit

Spring session

- 301111.3** Discovery Project

And three major, sub major or elective units

Recommended sequence for mid-year intake**Year 1****Spring session**

- 300672.3** Mathematics 1A
300811.2 Scientific Literacy
300580.4 Programming Fundamentals
301108.2 Thinking About Data

Autumn session

- 200025.3** Discrete Mathematics
301107.2 Analytics Programming
301109.3 Visual Analytics

And one major, sub-major or elective unit

Year 2**Spring session**

- 300104.5** Database Design and Development
301031.3 Computer Algebra
301034.2 Predictive Modelling
301033.2 Introduction to Data Science

Autumn session

- 301110.2** Applications of Big Data
301250.1 Probabilistic Models and Inference

And two major, sub-major or elective units

Year 3**Spring session**

- 301111.3** Discovery Project
300958.4 Social Web Analytics

And two major, sub-major or elective units

Autumn session

- 300578.4** Professional Development

And three major, sub-major or elective units

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

200979.2	Foundations of Entrepreneurship
301165.4	Incubator 1: Innovation and Creativity for Entrepreneurship
301206.3	Incubator 2: Start-up Essentials
301168.3	Incubator 3: Product Development
301169.3	Incubator 4: Commercial and Financial Setting of Entrepreneurship
301170.2	Incubator 5: Operational Aspects of Entrepreneurship
301171.3	Incubator 6: Funding and Start-up
301172.3	Incubator 7: Growth and Exit Strategies

Replaced Units

The units listed below count towards completion of this course for students who passed these units in 2018 or earlier.

301166 - Incubator 2: Legal and Ethical Setting of Entrepreneurship

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. Whilst the specialist focus of the degree is game and simulation development, the course connects it with the art of entrepreneurship and guides students through all phases of their entrepreneurship journey: from forming a team to obtaining funding. Students will gain game development skills while also learning how to start a gaming company. The key emphasis of this course is on developing the mindset, risk tolerance, creativity, team formation and leadership capabilities – key characteristics of high impact entrepreneurs. Practical experience is incorporated into every semester of study, enabling students to continue working on their start-ups throughout the degree.

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

Note: From Autumn 2020 SM3097 Advanced Game Design is replaced by the Sub-major SM3102 Advanced Game Design

SM3102.1 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

200979.2 Foundations of Entrepreneurship
300491.3 Games Technology
301164.3 3D Modelling Fundamentals

Major unit 1

Spring session

301165.4 Incubator 1: Innovation and Creativity for Entrepreneurship
301206.3 Incubator 2: Start-up Essentials
300580.4 Programming Fundamentals
301167.2 Simulation Fundamentals

Year 2

Autumn session

301168.3 Incubator 3: Product Development
301169.3 Incubator 4: Commercial and Financial Setting of Entrepreneurship

Major unit 2

Sub-major unit 1 or elective 1

Spring session

301170.2 Incubator 5: Operational Aspects of Entrepreneurship

Major unit 3

Major unit 4

Sub-major unit 2 or elective 2

Year 3

Autumn session

301171.3 Incubator 6: Funding and Start-up

Major unit 5

Major unit 6

Sub-major unit 3 or elective 3

Spring session

301172.3 Incubator 7: Growth and Exit Strategies

Major unit 7

Major unit 8

Sub-major unit 4 or elective 4

Mid-year Intake Full-time

Year 1

Spring session

200979.2 Foundations of Entrepreneurship
301165.4 Incubator 1: Innovation and Creativity for Entrepreneurship
300580.4 Programming Fundamentals
301167.2 Simulation Fundamentals

Year 2

Autumn session

301206.3 Incubator 2: Start-up Essentials
300491.3 Games Technology
301164.3 3D Modelling Fundamentals

Major unit 1

Spring session

301168.3 Incubator 3: Product Development

Major unit 2

Major unit 3

Sub-major unit 2 or elective 1

Year 3

Autumn session

301169.3 Incubator 4: Commercial and Financial Setting of Entrepreneurship
301170.2 Incubator 5: Operational Aspects of Entrepreneurship

Major unit 4

Sub-major unit 1 or elective 2

Spring session

301171.3 Incubator 6: Funding and Start-up

Major unit 5

Major unit 6

Sub-major unit 4 or elective 3

Year 4

Autumn session

301172.3 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 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
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

300580.4	Programming Fundamentals
100483.2	Principles of Professional Communication 1
300585.3	Systems Analysis and Design

300700.7 Statistical Decision Making**Spring session**

300565.3 Computer Networking
300581.5 Programming Techniques
300104.5 Database Design and Development

And one elective

Year 2**Autumn session**

300582.6 Technologies for Web Applications
300095.6 Computer Networks and Internets
300144.6 Object Oriented Analysis

And one elective

Spring session

300583.4 Web Systems Development
300958.4 Social Web Analytics

And two electives

Year 3**Autumn session**

300570.4 Human-Computer Interaction
300578.4 Professional Development
300698.5 Operating Systems Programming

And one elective

Spring session

300579.7 Professional Experience

And three electives

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

300565.3 Computer Networking
300104.5 Database Design and Development
300700.7 Statistical Decision Making

Please Note: 300700 Statistical Decision Making is only offered in Autumn session. Full-time students beginning their studies mid-year are required to enrol in the equivalent unit 200032 Statistics for Business.

And one elective

Autumn session

300580.4 Programming Fundamentals
300585.3 Systems Analysis and Design
300095.6 Computer Networks and Internets
100483.2 Principles of Professional Communication 1

Year 2**Spring session**

300581.5 Programming Techniques

300958.4 Social Web Analytics

And two electives

Autumn session

300582.6 Technologies for Web Applications
300578.4 Professional Development
300144.6 Object Oriented Analysis
300570.4 Human-Computer Interaction

Year 3**Spring session**

300583.4 Web Systems Development

And three electives

Autumn session

300579.7 Professional Experience
300698.5 Operating Systems Programming

And two electives

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

300580.4 Programming Fundamentals
100483.2 Principles of Professional Communication 1
300585.3 Systems Analysis and Design
300700.7 Statistical Decision Making

Spring session

300581.5 Programming Techniques
300565.3 Computer Networking
300104.5 Database Design and Development

And one elective

Summer A session

300582.6 Technologies for Web Applications
300570.4 Human-Computer Interaction

Year 2**Autumn session**

300095.6 Computer Networks and Internets
300144.6 Object Oriented Analysis

And two electives

Spring session

300583.4 Web Systems Development
300958.4 Social Web Analytics

And two electives

Summer A session

300578.4 Professional Development

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

300579.7 Professional Experience
300698.5 Operating Systems Programming

And two electives

Mid-Year 2.5 Year Accelerated Pathway with Summer Session

Year 1

Spring session

300565.3 Computer Networking
300104.5 Database Design and Development
300700.7 Statistical Decision Making

Please Note: 300700 Statistical Decision Making is only offered in Autumn session. Full-time students beginning their studies mid-year are required to enrol in the equivalent unit 200032 Statistics for Business.

And one elective

Summer A session

300585.3 Systems Analysis and Design
300570.4 Human-Computer Interaction

Autumn session

300580.4 Programming Fundamentals
300095.6 Computer Networks and Internets
300144.6 Object Oriented Analysis
100483.2 Principles of Professional Communication 1

Year 2

Spring session

300581.5 Programming Techniques
300958.4 Social Web Analytics

And two electives

Summer A session

300582.6 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

300578.4 Professional Development
300698.5 Operating Systems Programming

And two electives

Year 3

Spring session

300583.4 Web Systems Development
300579.7 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
M3126.1 Technology Entrepreneurship

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
SM3053.1 Social Media Analytics
SM3089.1 Statistics
SM3077.1 Systems Security
SM3056.1 Web Application Development (for Computing Students)
SM3055.1 Networking

Please note from 2018 SM3055 Networking is replaced by SM3095 Networking

SM3095.1 Networking

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).

It is suggested that students in the Bachelor of Information and Communications Technology who wish to choose a major or sub-major should choose from the list of optional majors and sub-majors above.

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

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

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

- 300580.4** Programming Fundamentals
- 100483.2** Principles of Professional Communication 1
- 300585.3** Systems Analysis and Design
- 300700.7** Statistical Decision Making

Spring session

- 300903.2** Programming Techniques (Advanced)

Choose one of

- 300565.3** Computer Networking
- 300946.2** Computer Networking (Advanced)

Choose one of

- 300104.5** Database Design and Development
- 300941.2** Database Design and Development (Advanced)

And one elective

Year 2

Autumn session

- 300582.6** Technologies for Web Applications
- 300095.6** Computer Networks and Internets

Choose one of

- 300144.6** Object Oriented Analysis
- 300888.3** Object Oriented Analysis (Advanced)

And one elective

Spring session

- 300958.4** Social Web Analytics
- 300902.4** Web Systems Development (Advanced)

And two electives

Year 3

Autumn session

- 300578.4** Professional Development

Choose one of

- 300698.5** Operating Systems Programming
- 300943.2** Operating Systems Programming (Advanced)

Choose one of

- 300570.4** Human-Computer Interaction
- 300901.3** Human-Computer Interaction (Advanced)

And one elective

Spring session

- 300900.3** 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
- M3126.1** Technology Entrepreneurship

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
- SM3053.1** Social Media Analytics
- SM3089.1** Statistics
- SM3077.1** Systems Security
- SM3056.1** Web Application Development (for Computing Students)
- SM3055.1** Networking

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)

3711.2

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 2021 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 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.

With direct industry experience through 140 hours of work placement, this course offers 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.

Study Mode

Three years full-time.

Location

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

Campus	Attendance	Mode
Penrith Campus	Full 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

300580.4	Programming Fundamentals
100483.2	Principles of Professional Communication 1
300585.3	Systems Analysis and Design
401388.1	Health Administration and Management

Spring session

300565.3	Computer Networking
300581.5	Programming Techniques
300104.5	Database Design and Development
300566.3	Introduction to Health Informatics

Year 2**Autumn session**

300582.6	Technologies for Web Applications
300700.7	Statistical Decision Making
300570.4	Human-Computer Interaction
300950.3	Fundamentals of Medical Concepts and Terminology

Spring session

300583.4	Web Systems Development
300958.4	Social Web Analytics
300955.3	Healthcare Data Environments
301033.2	Introduction to Data Science

Year 3**Autumn session**

300578.4	Professional Development
300951.3	Clinical Classification and Coding
300095.6	Computer Networks and Internets
401393.1	Health Services Management

Spring session

300579.7	Professional Experience
300953.2	Advanced Clinical Classification
300954.2	Activity Based Funding/Casemix and Data Quality
300956.2	Healthcare Software and Systems

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 with the necessary knowledge in an Arts major such as: 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 program design, application development, systems analysis and design, computer networking, web development, data analysis, and the implementation of technology to solve real-world problems.

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	Attendance Mode
Parramatta Campus - Victoria Road	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 Level 1 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.

Students must complete the four Level 1 Bachelor of Arts (BA) 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

300580.4	Programming Fundamentals
100483.2	Principles of Professional Communication 1
300585.3	Systems Analysis and Design
300700.7	Statistical Decision Making

Spring session

300565.3	Computer Networking
300581.5	Programming Techniques
300104.5	Database Design and Development

BA core unit (Level 1)

Year 2

Autumn session

300582.6	Technologies for Web Applications
300144.6	Object Oriented Analysis
300095.6	Computer Networks and Internets

BA core unit (Level 1)

Spring session

300583.4	Web Systems Development
300958.4	Social Web Analytics

BA core unit (Level 1)

BA major unit

Year 3

Autumn session

300570.4	Human-Computer Interaction
300578.4	Professional Development
300698.5	Operating Systems Programming

BA core unit (Level 1)

Spring session

300579.7	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

Please note: Students commencing this course in 2021 should enrol in and complete M1131 Culture and Society.

M1131.1	Culture and Society
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

Please note: Students commencing this course in 2021 should enrol in and complete M1137 History and Political Thought.

M1137.1	History and Political Thought
M1041.1	Indigenous Australian Studies
M1093.1	Indonesian
M2514.1	Innovation and Change
M1129.1	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.

Please note: Students commencing this course in 2021 should enrol in and complete M1132 International English.

M1132.1	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
M1110.1	Psychological Studies
M1073.1	Sociology

Bachelor of Arts Sub-majors

SM1077.1	Arabic
SM1078.1	Chinese
SM1116.1	Creative Writing
SM1070.1	Cultural and Social Analysis

Please note: Students commencing this course in 2021 should enrol in and complete SM1138 Culture and Society.

SM1138.1	Culture and Society
SM1071.1	English
SM1072.1	History and Political Thought

Please note: Students commencing this course in 2021 should enrol in and complete SM1145 History and Political Thought.

SM1145.1	History and Political Thought
SM1128.1	Immersion Language
SM1049.1	Indigenous Australian Studies
SM1112.1	Indonesian
SM1132.1	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.

Please note: Students commencing this course in 2021 should enrol in and complete SM1139 International English.

SM1139.1	International English
SM1073.1	International Relations and Asian Studies
SM1080.1	Japanese
SM1119.1	Linguistics
SM1065.1	Musicology
SM1047.1	Music Performance Studies
SM1076.1	Philosophy
SM1115.1	Psychological Studies

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
200910.2	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 (BBus) 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

300585.3	Systems Analysis and Design
300580.4	Programming Fundamentals

BBus core unit 1
BBus core unit 2

Spring session

300104.5	Database Design and Development
300581.5	Programming Techniques

BBus core unit 3
BBus core unit 4

Year 2

Autumn session

300144.6	Object Oriented Analysis
300582.6	Technologies for Web Applications

BBus professional unit 1
BBus major unit 1

Spring session

300583.4	Web Systems Development
300565.3	Computer Networking

BBus professional unit 2
BBus major unit 2

Year 3

Autumn session

300095.6	Computer Networks and Internets
300570.4	Human-Computer Interaction

BBus major unit 3
BBus major unit 4

Spring session

300958.4	Social Web Analytics
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BICT pool unit
BBus major unit 5
BBus major unit 6

Year 4

Autumn session

300578.4	Professional Development
300698.5	Operating Systems Programming

BBus professional unit 3
BBus major unit 7

Spring session

300579.7	Professional Experience
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BICT pool unit
BBus professional unit 4
BBus major unit 8

BICT Pool Units

300916.4	Astroinformatics
300111.3	Developing Web Applications with XML
301124.3	Ethical Hacking Principles and Practice
300960.5	Mobile Applications Development
300143.5	Network Security
300900.3	Professional Experience (Advanced)
300166.4	Systems and Network Management
300862.3	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
200910.2	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
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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.

200108.3	Contemporary Management Accounting
200488.6	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

300585.3	Systems Analysis and Design
300580.4	Programming Fundamentals

BBus core unit 1
BBus core unit 2

Spring session

300104.5	Database Design and Development
300581.5	Programming Techniques

BBus core unit 3
BBus core unit 4

Year 2

Autumn session

300144.6	Object Oriented Analysis
300582.6	Technologies for Web Applications

BBus professional unit 1
BBus major unit 1

Spring session

300583.4	Web Systems Development
300565.3	Computer Networking

BBus professional unit 2
BBus major unit 2

Year 3

Autumn session

300095.6	Computer Networks and Internets
300570.4	Human-Computer Interaction

BBus major unit 3
BBus major unit 4

Spring session

300958.4	Social Web Analytics
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BICT Pool Unit
BBus major unit 5
BBus major unit 6

Year 4

Autumn session

300578.4	Professional Development
300698.5	Operating Systems Programming

BBus professional unit 3
BBus major unit 7

Spring session

300579.7	Professional Experience
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BICT pool Unit
BBus professional unit 4
BBus major unit 8

Bachelor of Information & Communications Technology Pool Units

300916.4	Astroinformatics
300111.3	Developing Web Applications with XML
301124.3	Ethical Hacking Principles and Practice
300960.5	Mobile Applications Development
300143.5	Network Security
300900.3	Professional Experience (Advanced)
300166.4	Systems and Network Management
300862.3	Video Games Development

Please note: The following Pool unit will not be offered after 2017

300957 - 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**

300580.4	Programming Fundamentals
100483.2	Principles of Professional Communication 1
300585.3	Systems Analysis and Design
300573.3	Information Systems in Context

Spring session

300565.3	Computer Networking
300104.5	Database Design and Development
200032.7	Statistics for Business

And one elective

Year 2**Autumn session**

300582.6	Technologies for Web Applications
300570.4	Human-Computer Interaction

And two electives

Spring session

300569.3	Computer Security
300572.4	Information Systems Deployment and Management
300960.5	Mobile Applications Development

And one elective

Year 3**Autumn session**

300578.4	Professional Development
300584.5	Emerging Trends in Information Systems

And two electives

Spring session

300579.7	Professional Experience
300961.4	Social Computing

And two electives

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

300565.3	Computer Networking
300104.5	Database Design and Development
300573.3	Information Systems in Context
200032.7	Statistics for Business

Autumn session

300580.4	Programming Fundamentals
100483.2	Principles of Professional Communication 1
300585.3	Systems Analysis and Design

And one elective

Year 2**Spring session**

300569.3	Computer Security
300572.4	Information Systems Deployment and Management

And two electives

Autumn session

300582.6 Technologies for Web Applications
300570.4 Human-Computer Interaction

And two electives

Year 3**Spring session**

300961.4 Social Computing
300960.5 Mobile Applications Development

And two electives

Autumn session

300579.7 Professional Experience
300578.4 Professional Development
300584.5 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**

300580.4 Programming Fundamentals
100483.2 Principles of Professional Communication 1
300585.3 Systems Analysis and Design

And one elective

Spring session

300565.3 Computer Networking
300573.3 Information Systems in Context

And two electives

Summer A session

300570.4 Human-Computer Interaction
300104.5 Database Design and Development

Year 2**Autumn session**

300582.6 Technologies for Web Applications
200032.7 Statistics for Business

And two electives

Spring session

300569.3 Computer Security
300572.4 Information Systems Deployment and Management
300960.5 Mobile Applications Development
300961.4 Social Computing

Summer A session

300578.4 Professional Development

And one elective

Year 3**Autumn session**

300584.5 Emerging Trends in Information Systems
300579.7 Professional Experience

And two electives

Full-time - Accelerated Pathway**Early Start 2.5 Year Accelerated Pathway with Summer sessions****Year 1****Summer A session**

200032.7 Statistics for Business
300104.5 Database Design and Development

Autumn session

300580.4 Programming Fundamentals
100483.2 Principles of Professional Communication 1
300585.3 Systems Analysis and Design
300573.3 Information Systems in Context

Spring session

300565.3 Computer Networking
300572.4 Information Systems Deployment and Management

And two electives

Year 2**Summer A session**

300570.4 Human-Computer Interaction

And one elective

Autumn session

300582.6 Technologies for Web Applications

And three electives

Spring session

300569.3 Computer Security
300960.5 Mobile Applications Development
300961.4 Social Computing

And one elective

Year 3**Summer A session**

300578.4 Professional Development

And one elective

Autumn session

300579.7 Professional Experience
300584.5 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
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Penrith Campus

M3126.1	Technology Entrepreneurship
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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
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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

- 300580.4** Programming Fundamentals
- 100483.2** Principles of Professional Communication 1
- 300585.3** Systems Analysis and Design
- 300573.3** Information Systems in Context

Spring session

- 200032.7** Statistics for Business

Choose one of

- 300565.3** Computer Networking
- 300946.2** Computer Networking (Advanced)

Choose one of

- 300104.5** Database Design and Development
- 300941.2** Database Design and Development (Advanced)

And one elective

Year 2

Autumn session

- 300582.6** Technologies for Web Applications

Choose one of

- 300570.4** Human-Computer Interaction
- 300901.3** Human-Computer Interaction (Advanced)

And two electives

Spring session

- 300569.3** Computer Security
- 300572.4** Information Systems Deployment and Management
- 300960.5** Mobile Applications Development

And one elective

Year 3

Autumn session

- 300578.4** Professional Development
- 300942.3** Emerging Trends in Information Systems (Advanced)

And two electives

Spring session

- 300900.3** Professional Experience (Advanced)
- 300961.4** Social Computing

And two electives

Full-time - Mid Year Intake

Year 1

Spring session

- 300573.3** Information Systems in Context
- 200032.7** Statistics for Business
- 300580.4** Programming Fundamentals

And one elective

Autumn session

- 100483.2** Principles of Professional Communication 1
- 300585.3** Systems Analysis and Design

And two electives

Year 2

Spring session

- 300569.3** Computer Security
- 300572.4** Information Systems Deployment and Management

Choose one of

- 300104.5** Database Design and Development
- 300941.2** Database Design and Development (Advanced)

Choose one of

300565.3 Computer Networking
300946.2 Computer Networking (Advanced)

Autumn session

300582.6 Technologies for Web Applications

Choose one of

300570.4 Human-Computer Interaction
300901.3 Human-Computer Interaction (Advanced)

And two electives

Year 3**Spring session**

300961.4 Social Computing
300960.5 Mobile Applications Development

And two electives

Autumn session

300900.3 Professional Experience (Advanced)
300578.4 Professional Development
300942.3 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
M3126.1 Technology Entrepreneurship

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

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

Students must have an ATAR of 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
200910.2	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**

300580.4 Programming Fundamentals
100483.2 Principles of Professional Communication 1

BBus core unit 1
BBus core unit 2

Spring session

200032.7 Statistics for Business
300946.2 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**

300585.3 Systems Analysis and Design
300573.3 Information Systems in Context

BBus major unit 1
Elective unit

Spring session

300941.2 Database Design and Development (Advanced)
300569.3 Computer Security

BBus major unit 2
BBus professional unit 2

Year 3**Autumn session**

300582.6 Technologies for Web Applications

300901.3 Human-Computer Interaction (Advanced)

BBus major unit 3
BBus major unit 4

Spring session

300572.4 Information Systems Deployment and Management
300960.5 Mobile Applications Development

BBus major unit 5
BBus major unit 6

Year 4**Autumn session**

300578.4 Professional Development
300942.3 Emerging Trends in Information Systems (Advanced)

BBus major unit 7
BBus professional unit 3

Spring session

300900.3 Professional Experience (Advanced)
300961.4 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**

300580.4 Programming Fundamentals

BBus core unit 1

Spring session

300573.3 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

300941.2 Database Design and Development (Advanced)

BBus core unit 4

Year 3**Autumn session****200032.7** Statistics for Business

Elective unit

Note: Unit 200032 is also the BBus Professional unit 1

Spring session**300946.2** Computer Networking (Advanced)

BBus major unit 1

Year 4**Autumn session****300585.3** Systems Analysis and Design

BBus Professional unit 2

Spring session**300569.3** Computer Security

BBus major unit 2

Year 5**Autumn session****300901.3** Human-Computer Interaction (Advanced)

BBus major unit 3

Spring session**300572.4** Information Systems Deployment and Management

BBus major unit 4

Year 6**Autumn session****300582.6** Technologies for Web Applications

BBus major unit 5

Spring session**300960.5** Mobile Applications Development

BBus major unit 6

Year 7**Autumn session****300942.3** Emerging Trends in Information Systems (Advanced)

BBus major unit 7

Spring session**300961.4** Social Computing

BBus professional unit 3

Year 8**Autumn session****300578.4** Professional Development

BBus major unit 8

Spring session**300900.3** 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
200910.2	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(BBus) major. Students should follow the recommended sequence below and not the sequence listed under each major.

Year 1**Autumn session**

300580.4	Programming Fundamentals
100483.2	Principles of Professional Communication 1

BBus core unit 1
BBus core unit 2

Spring session

200032.7	Statistics for Business
300565.3	Computer Networking

BBus core unit 3
BBus core unit 4

Note: Unit 200032 is also the BBus professional unit 1

Year 2**Autumn session**

300585.3	Systems Analysis and Design
300573.3	Information Systems in Context

BBus major unit 1
Elective unit

Spring session

300104.5	Database Design and Development
300569.3	Computer Security

BBus major unit 2
BBus professional unit 2

Year 3**Autumn session**

300582.6	Technologies for Web Applications
300570.4	Human-Computer Interaction

BBus major unit 3
BBus major unit 4

Spring session

300572.4	Information Systems Deployment and Management
300960.5	Mobile Applications Development

BBus major unit 5
BBus major unit 6

Year 4**Autumn session**

300578.4	Professional Development
300584.5	Emerging Trends in Information Systems

BBus major unit 7
BBus professional unit 3

Spring session

300579.7	Professional Experience
300961.4	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(BBus) major. Students should follow the recommended sequence below and not the sequence listed under major.

Year 1**Autumn session**

300580.4	Programming Fundamentals
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BBus core unit 1

Spring session

300573.3	Information Systems in Context
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BBus core unit 2

Year 2**Autumn session**

100483.2	Principles of Professional Communication 1
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BBus core unit 3

Spring session

300104.5	Database Design and Development
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BBus core unit 4

Year 3**Autumn session**

200032.7	Statistics for Business
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Elective unit

Note: Unit 200032 is also the BBus Professional unit 1

Spring session

300565.3 Computer Networking

BBus major unit 1

Year 4

Autumn session

300585.3 Systems Analysis and Design

BBus professional unit 2

Spring session

300569.3 Computer Security

BBus Major unit 2

Year 5

Autumn session

300570.4 Human-Computer Interaction

BBus major unit 3

Spring session

300572.4 Information Systems Deployment and Management

BBus major unit 4

Year 6

Autumn session

300582.6 Technologies for Web Applications

BBus major unit 5

Spring session

300960.5 Mobile Applications Development

BBus major unit 6

Year 7

Autumn session

300584.5 Emerging Trends in Information Systems

BBus major unit 7

Spring session

300961.4 Social Computing

BBus professional unit 3

Year 8

Autumn session

300578.4 Professional Development

BBus major unit 8

Spring session

300579.7 Professional Experience

BBus professional unit 4

Bachelor of Mathematics

3778.1

The Bachelor of Mathematics will commence in 2022.

The essence of mathematics is the use of abstraction and logic to discover, describe and completely and unambiguously understand systems. Mathematics is essential for modelling phenomena in many fields, including science, engineering, economics, finance, medicine, and politics. The fact that mathematicians are able to model, analyse and solve practical problems makes them highly sought after by employers. The Bachelor of Mathematics will give you a solid basis in key areas of mathematics. You also have the option of completing majors in Financial Mathematics, Data Science, or Computational Mathematics, or you can use the degree as a pathway to secondary teaching.

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
Penrith Campus	Full Time	Internal
Penrith Campus	Part Time	Internal

Admission

Assumed Knowledge: Students should have either HSC Mathematics Advanced, or HSC Mathematics Extension 1, or Mathematics Extension 2, and at least two units of HSC English.

Applications from Australian and New Zealand citizens and holders of permanent resident visas may be made via the Universities Admissions Centre (UAC) or directly through the Western Portal. 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 applicants who are applying through the Universities Admissions Centre (UAC) will find details of minimum English proficiency requirements and acceptable proof on the UAC website. Local applicants applying directly to the University should also use the information provided on the UAC website.

International students currently completing an Australian Year 12 in or outside Australia, an International Baccalaureate in Australia or a New Zealand National

Certificate of Educational Achievement (NCEA) level 3 must apply via UAC International.

All other 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 the Bachelor of Mathematics requires the successful completion of 240 credit points which include the units listed in the recommended sequences below.

Recommended Sequence - Full-time

Year 1

Autumn

200025.3	Discrete Mathematics
300672.3	Mathematics 1A
300580.4	Programming Fundamentals
300700.7	Statistical Decision Making

Spring

300673.3	Mathematics 1B
301375.1	Mathematical Programming

And two major units or two electives

Year 2

Autumn

200027.4	Linear Algebra
200028.4	Advanced Calculus
301378.1	Combinatorics

And one major unit or one elective

Spring

200030.5	Differential Equations
301034.2	Predictive Modelling
301376.1	Groups and Symmetry

And one major unit or one elective

Year 3

Autumn

200023.4	Analysis
301377.1	Fields and Equations

And two major units or two electives

Spring

200022.4	Mathematical Modelling
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Students enrolled in MT3038 Data Science must complete

301111.2 Discovery Project

All students NOT enrolled in MT3038 must complete

301379.1 Mathematics Project

And all students must complete two major units or two electives

Recommended Sequence - Part-time

Year 1

Autumn

200025.3	Discrete Mathematics
300580.4	Programming Fundamentals

Spring

301375.1	Mathematical Programming
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And one major unit or one elective

Year 2

Autumn

300672.3	Mathematics 1A
300700.7	Statistical Decision Making

Spring

300673.3	Mathematics 1B
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And one major unit or one elective

Year 3

Autumn

200027.4	Linear Algebra
200028.4	Advanced Calculus

Spring

200030.5	Differential Equations
301034.2	Predictive Modelling

Year 4

Autumn

301378.1	Combinatorics
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And one major unit or one elective

Spring

301376.1	Groups and Symmetry
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And one major unit or one elective

Year 5

Autumn

200023.4	Analysis
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And one major unit or one elective

Spring**200022.4** Mathematical Modelling

And one major unit or one elective

Year 6**Autumn****301377.1** Fields and Equations

And one major unit or one elective

Spring

Students enrolled in MT3038 Data Science must complete

301111.2 Discovery Project

All students NOT enrolled in MT3038 must complete

301379.1 Mathematics Project

And all students must complete one major unit or one elective

Recommended Majors

MT3038.1	Data Science
MT3039.1	Financial Mathematics
MT3040.1	Computational Mathematics
MT3041.1	Secondary Teaching

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

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.

The early exit College Diploma consists of 110 credit points which includes four College Preparatory units.

Western Sydney University The College Units

Nirimba and Parramatta City (George Street) Campus

First Term 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)
700000.6	Information Systems in Context (WSTC)

Second Term of Study

700013.4	Systems Analysis and Design (WSTC)
700045.3	Statistics for Academic Purposes (WSTC Prep)
700008.5	Programming Fundamentals (WSTC)
700011.5	Database Design and Development (WSTC)

Third Term of Study

700039.4	Object Oriented Analysis (WSTC)
700012.4	Computer Networking (WSTC)
700041.7	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

300582.6	Technologies for Web Applications
300095.6	Computer Networks and Internets
300570.4	Human-Computer Interaction

And one elective

Spring session

300581.5	Programming Techniques
300583.4	Web Systems Development
300958.4	Social Web Analytics

And one elective

Year 3

300578.4	Professional Development
300698.5	Operating Systems Programming

And two electives

Spring session

300579.7	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.

The early exit College Diploma consists of 110 credit points which includes four College Preparatory units.

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)
- 700258.2** Introduction to Health Informatics (WSTC)

Term 2 of study

- 700045.3** Statistics for Academic Purposes (WSTC Prep)
- 700013.4** Systems Analysis and Design (WSTC)
- 700008.5** Programming Fundamentals (WSTC)
- 700011.5** Database Design and Development (WSTC)

Term 3 of study

700012.4	Computer Networking (WSTC)
700041.7	Statistical Decision Making (WSTC)
700257.2	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**

300582.6	Technologies for Web Applications
300095.6	Computer Networks and Internets
300144.6	Object Oriented Analysis
300950.3	Fundamentals of Medical Concepts and Terminology

Spring session

300583.4	Web Systems Development
300958.4	Social Web Analytics
300955.3	Healthcare Data Environments
400277.5	Health Services Management

Year 3**Autumn session**

300570.4	Human-Computer Interaction
300578.4	Professional Development
300951.3	Clinical Classification and Coding
400787.4	Health Services Management Practice

Spring session

300579.7	Professional Experience
300956.2	Healthcare Software and Systems
300953.2	Advanced Clinical Classification
300954.2	Activity Based Funding/Casemix and Data Quality

Diploma in Information and Communications Technology (Health Information Management)(exit only)**7164.1**

The Diploma in Information and Communications Technology (Health Information Management) is available as an exit point only from 6038 - Diploma/Bachelor of Information and Communications Technology (Health Information Management)

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

This course is an exit award only

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

This course is an exit award only

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

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)
- 700258.2** Introduction to Health Informatics (WSTC)

Term 2 of study

- 700045.3** Statistics for Academic Purposes (WSTC Prep)
- 700013.4** Systems Analysis and Design (WSTC)
- 700008.5** Programming Fundamentals (WSTC)
- 700011.5** Database Design and Development (WSTC)

Term 3 of study

- 700012.4** Computer Networking (WSTC)
- 700041.7** Statistical Decision Making (WSTC)
- 700257.2** Programming Techniques (WSTC)

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 Bachelor of 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.

The early exit College Diploma consists of 100 credit points which includes four College Preparatory units.

Western Sydney University The College Units

Nirimba and Parramatta City (George Street) Campus

Please note that all campuses may not have intakes each year.

First Term 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)
- 700000.6** Information Systems in Context (WSTC)

Second Term of Study

- 700045.3** Statistics for Academic Purposes (WSTC Prep)
- 700013.4** Systems Analysis and Design (WSTC)
- 700008.5** Programming Fundamentals (WSTC)

- 700011.5** Database Design and Development (WSTC)

Third Term of Study

- 700039.4** Object Oriented Analysis (WSTC)
- 700012.4** Computer Networking (WSTC)
- 700041.7** 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

- 300582.6** Technologies for Web Applications
- 300570.4** Human-Computer Interaction

And two electives

Spring session

- 300569.3** Computer Security
- 300572.4** Information Systems Deployment and Management
- 300960.5** Mobile Applications Development

And one elective

Year 3

Autumn session

- 300578.4** Professional Development
- 300584.5** Emerging Trends in Information Systems

And two electives

Spring session

- 300579.7** Professional Experience
- 300961.4** 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 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
The College - Nirimba Education Precinct	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

Qualification for this award requires the successful completion of 100 credit points which include the units listed in the pathways below.

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)
700000.6	Information Systems in Context (WSTC)

Term 2 of study

700013.4	Systems Analysis and Design (WSTC)
700045.3	Statistics for Academic Purposes (WSTC Prep)
700008.5	Programming Fundamentals (WSTC)

700011.5 Database Design and Development (WSTC)

Term 3 of study

700039.4 Object Oriented Analysis (WSTC)
700012.4 Computer Networking (WSTC)
700041.7 Statistical Decision Making (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

Qualification for this award requires the successful completion of 140 credit points which include the units listed in the pathways below.

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

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

Qualification for this award requires the successful completion of 140 credit points which include the units listed in the pathways below.

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

Qualification for this award requires the successful completion of 140 credit points which include the units listed in the pathways below.

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

Non-credentialed applicants

A7171.1 WSTC Information and Communications Technology Extended - Info Sys - Non-Credentialed

International students

A7172.1 WSTC Information and Communications Technology Extended - Info Sys - International

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

700012.4	Computer Networking (WSTC)
700011.5	Database Design and Development (WSTC)
700000.6	Information Systems in Context (WSTC)
700039.4	Object Oriented Analysis (WSTC)
700040.3	Principles of Professional Communication 1 (WSTC)
700008.5	Programming Fundamentals (WSTC)
700013.4	Systems Analysis and Design (WSTC)

Choose one of

700007.6	Statistics for Business (WSTC)
700041.7	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)
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Undergraduate Certificate in Information and Communications Technology

7174.2

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 2021 or later.

The Undergraduate Certificate in Information and Communication Technology (ICT) provides basic skills and knowledge in networking and IT applications development, along with the ability to apply practical ICT solutions in real-world situations. It will provide a solid foundation in information systems, databases, ICT support and programming.

Study Mode

Six months full-time

Location

Campus Attendance Mode

Online Full Time Multi Modal

Admission

This short course is available to Australian Citizens and Permanent Residents who are aged 17 years or over.

For more information on applying please see the link to The College admission pages below.

Course Structure

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

500046.1	Information Systems in Context (UG Cert)
500047.1	Programming Fundamentals (UG Cert)
500048.1	Database Design and Development (UG Cert)
500049.1	Computer Networking (UG Cert)

Specialisations

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)
700000.6	Information Systems in Context (WSTC)

Term 3 of Study

700013.4	Systems Analysis and Design (WSTC)
700045.3	Statistics for Academic Purposes (WSTC Prep)
700008.5	Programming Fundamentals (WSTC)
700011.5	Database Design and Development (WSTC)

Term 4 of Study

700039.4	Object Oriented Analysis (WSTC)
700012.4	Computer Networking (WSTC)
700041.7	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)
700000.6	Information Systems in Context (WSTC)

Term 3 of Study

700013.4	Systems Analysis and Design (WSTC)
700045.3	Statistics for Academic Purposes (WSTC Prep)
700008.5	Programming Fundamentals (WSTC)
700011.5	Database Design and Development (WSTC)

Term 4 of Study

700039.4	Object Oriented Analysis (WSTC)
700012.4	Computer Networking (WSTC)
700041.7	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)
- 700000.6** Information Systems in Context (WSTC)

Term 3 of Study

- 700013.4** Systems Analysis and Design (WSTC)
- 700045.3** Statistics for Academic Purposes (WSTC Prep)
- 700008.5** Programming Fundamentals (WSTC)
- 700011.5** Database Design and Development (WSTC)

Term 4 of Study

- 700039.4** Object Oriented Analysis (WSTC)
- 700012.4** Computer Networking (WSTC)
- 700041.7** 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)
- 700000.6** Information Systems in Context (WSTC)

Term 3 of Study

- 700045.3** Statistics for Academic Purposes (WSTC Prep)
- 700013.4** Systems Analysis and Design (WSTC)
- 700008.5** Programming Fundamentals (WSTC)
- 700011.5** Database Design and Development (WSTC)

Term 4 of Study

- 700039.4** Object Oriented Analysis (WSTC)
- 700012.4** Computer Networking (WSTC)
- 700041.7** 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)
700000.6	Information Systems in Context (WSTC)

Term 3 of Study

700045.3	Statistics for Academic Purposes (WSTC Prep)
700013.4	Systems Analysis and Design (WSTC)
700008.5	Programming Fundamentals (WSTC)
700011.5	Database Design and Development (WSTC)

Term 4 of Study

700039.4	Object Oriented Analysis (WSTC)
700012.4	Computer Networking (WSTC)
700041.7	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)
700000.6	Information Systems in Context (WSTC)

Term 3 of Study

700045.3	Statistics for Academic Purposes (WSTC Prep)
700013.4	Systems Analysis and Design (WSTC)
700008.5	Programming Fundamentals (WSTC)
700011.5	Database Design and Development (WSTC)

Term 4 of Study

700039.4	Object Oriented Analysis (WSTC)
700012.4	Computer Networking (WSTC)
700041.7	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)
700258.2	Introduction to Health Informatics (WSTC)

Term 3 of Study

700045.3	Statistics for Academic Purposes (WSTC Prep)
700013.4	Systems Analysis and Design (WSTC)
700008.5	Programming Fundamentals (WSTC)
700011.5	Database Design and Development (WSTC)

Term 4 of Study

700012.4	Computer Networking (WSTC)
700041.7	Statistical Decision Making (WSTC)
700257.2	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)
700258.2	Introduction to Health Informatics (WSTC)

Term 3 of Study

700045.3	Statistics for Academic Purposes (WSTC Prep)
700013.4	Systems Analysis and Design (WSTC)
700008.5	Programming Fundamentals (WSTC)
700011.5	Database Design and Development (WSTC)

Term 4 of Study

700012.4	Computer Networking (WSTC)
700041.7	Statistical Decision Making (WSTC)
700257.2	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)
700258.2	Introduction to Health Informatics (WSTC)

Term 3 of Study

700045.3	Statistics for Academic Purposes (WSTC Prep)
700013.4	Systems Analysis and Design (WSTC)
700008.5	Programming Fundamentals (WSTC)
700011.5	Database Design and Development (WSTC)

Term 4 of Study

700012.4	Computer Networking (WSTC)
700041.7	Statistical Decision Making (WSTC)
700257.2	Programming Techniques (WSTC)

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
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)
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Choose seven of the following units including three Level 3 units

Level 1 units

102805.1	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
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'

Equivalent Specialisation Units

The Level 3 unit listed below counts towards completion of the Major for students who successfully completed the unit in 2019 or earlier.

100961 - Humanities Internship

The Level 1 unit listed below counts towards completion of the Major for students who successfully completed the unit in Autumn 2020 or earlier.

101878 - Indigenous Landscapes

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
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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

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
102529.2	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
101468.2	Islam, Media and Conflict
102781.1	Labour and Culture
102789.1	Philosophy of Race and Racism
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
The Level 3 unit listed below counts towards completion of the Major for students who successfully completed the unit in 2019 or earlier.	
100961	- Humanities Internship

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
101907.1	Introduction to Literary Studies
101909.1	Methods of Reading
102765.1	The Value of Literature

The unit listed below counts as a compulsory unit towards completion of this Major for students who passed this unit in 2019 or earlier.

101976 - English Literature After 1830

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
101909.1	Methods of Reading
102765.1	The Value of Literature

The unit listed below counts as a compulsory unit towards completion of this Major for students who passed this unit in 2019 or earlier.

101976 - English Literature After 1830

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
102626.1	Medieval and Early Modern Literature
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
102772.1	Writing and Reading Sci-Fi and Fantasy
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
102205.2	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
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
101670.3	Writing and Society
100895.4	Writing For Performance
101011.3	Writing Poetry

Please note

The Level 2 and 3 units listed below count towards completion of this Major for students who passed these units in 2016 or earlier.

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

The Level 3 units listed below count towards completion of this Major for students who passed these units in 2019 or earlier.

100961 - Humanities Internship
 101908 - Writing and Reading Sci Fi and Fantasy

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.

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

102768.1	When Worlds Collide: European Empires and the World, c.1600-1950
102000.1	Modern European History and Politics
101992.1	Religion and the Emergence of Modern Politics
102766.1	Historical Methodologies

Important Note: To meet NESAs subject area teaching requirements students who wish to teach modern history must include one unit of Ancient History. This may be attained by approved cross-institutional study, by completing the level 3 unit 102492 Catastrophe: The Environmental History of the Ancient and Modern World, or by completing the level 2 unit 100244 Ancient Western Culture: Periclean Athens. It is also strongly recommended that students select at least one Australian history unit.

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
101967.1	Cultural History of Books and Reading
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
102479.1	Cultures of Crime and Punishment
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
102734.1	History of Religion
101991.1	History of Sexuality
100507.4	History of Modern China to 1949
102184.1	History of Muslim Civilisations and Ideas
101988.1	Human Rights and Culture
101733.2	Looking at Global Politics Through Film
100271.3	Modern Japanese History

102495.1	Mystical Islam: The Emergence of Sufism in World History	101249 - Culture and Thought in Twentieth-Century China
102343.1	Napoleon: the Making of a Legend	100860 - Emotions, Culture and Community
102493.1	Philosophy of History	100864 - Europe in the Twentieth Century
100278.2	Politics of Post-War Japan	101844 - Feminist Theories
101985.1	Politics, Power and Resistance	101674 - Global Histories of Food
63178.2	Social and Political Developments in Contemporary China	102006 - Histories of Crime and Punishment
102187.1	Sultans, Colonists and Nationalists: Indonesia C1200-1942	100963 - Interpreting Australia: Australian Historians and Historiography
101782.2	The History and Politics of Contemporary Central Asia	101801 - Interpreting Fascism
102491.1	The History of Southeast Asia	101823 - Lay Participation in Justice Processes (replaced by 102006)
101783.2	The International Relations of the Middle East Since 1945	100875 - Literature and Philosophy
102005.1	The Politics of Civilisation	100275 - Philosophies of Love and Death
101913.2	Theories of Authority	100879 - Philosophy Today
100969.2	Theories of Conflict and Violence	100908 - Race Politics
101999.1	Twentieth Century Australia	100284 - Special Topics in Australian History
101798.2	Understanding Freedom	100887 - Sport and Australian History
101731.3	Understanding Power	101667 - The External Relations of the European Union
101866.1	United States Government and Politics	101405 - The Politics of Contemporary Indonesia
102423.1	War	101831 - Transport and the Making of the Modern World
101993.1	War and Society in the Twentieth Century	101375 - War and Peace
102142.1	Warlords, Artists and Emperors: Power and Authority in Japanese History	100971 - Which New World Order?
101830.2	WWII in Asia and the Pacific	100894 - World War 1
101010.3	What is the Human?	

Equivalent Specialisation Units

The Level 2 and Level 3 units listed below count towards completion of the major for students who successfully completed the units 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
 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

The Level 1, Level 2 and Level 3 units listed below count towards completion of the major for students who successfully completed the units in 2019 or earlier.

Level 1

101910 - Global History

Level 2

101973 - Australian Politics
 100861 - Empire: European Colonial Rule and its Subjects 1750-1920

Level 3

100961 - Humanities Internship
 102522 - International Study Tours
 102001 - Theories and Methods in History

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
102189.1	International Organisations and Global Governance
102190.1	International Relations of Southeast Asia
102193.1	International Special Study
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.

Level 1

101737 - World Politics: An Introduction

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?

The Level 3 units listed below count towards completion of the major for students who successfully completed the units in 2019 or earlier.

100961 - Humanities Internship
102522 - International Study Tours

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
102823.1	Islam: Past, Present and Future
101911.2	The Qur'an: An Introduction

The remaining four units must be drawn from the following Level 2 and 3 unit pools

Equivalent Specialisation Unit

The Level 1 unit listed below counts towards completion of the major for students who successfully completed the units in 2020 or earlier.

101462 - Understanding Islam and Muslim Societies

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

101466.2	Ethical Traditions in Islam
102184.1	History of Muslim Civilisations and Ideas
102734.1	History of Religion
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
101359.7	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

The Level 3 units listed below count towards completion of the major for students who successfully completed the units in 2019 or earlier.

100961 - Humanities Internship
102494 - Conceptualising Islam

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
100875.4	Literature and Philosophy
100275.4	Philosophies of Love and Death
102417.1	Philosophy and Environment
102493.1	Philosophy of History
102789.1	Philosophy of Race and Racism

101965.2	Philosophy of Religion
100969.2	Theories of Conflict and Violence
101913.2	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

The Level 3 unit listed below counts towards completion of the major for students who successfully completed the unit in 2019 or earlier.

- 100961 - Humanities Internship

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

Inherent Requirements

There are Inherent Requirements for this major, please check the information online.

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.

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

Major - Japanese

M1062.1

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

Inherent Requirements

There are inherent requirements for this major that you must meet in order to successfully complete the major. Make sure you read and understand the requirements for your course 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
102804.1	Japanese 204: Speaking and Listening

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

Equivalent Specialisations Units

The Specialisation unit listed below count towards completion of this major for students who passed this unit in Autumn 2020 or earlier.

102031 - Japanese 204

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; First Peoples and criminal 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

102709.2 Introduction to Criminal Justice

Spring session

102039.2 Crime, Deviance and Society

Year 2

Autumn session

102699.2 Youth Justice and Practice

Spring session

102708.2 Crime Prevention and Drugs

Please Note: In 2020, Sydney City Campus students should enrol in unit code 102038 instead of unit code 102708.

102038.2 Crime Prevention and Community

Choose one of

102712.2 First Peoples and Criminal Justice
102711.1 Prisons, Punishment and Criminal Justice

Please Note: In 2020, Sydney City Campus students should enrol in unit code 102036 instead of unit code 102711.

102036.2 Prisons, Punishment and Criminal Justice

Year 3

Autumn session

102037.2 Perspectives in Criminology
101561.3 Gender, Crime and Violence

Spring session

Choose one of

102712.2 First Peoples and Criminal Justice
102710.1 Crime, Media, Culture

Please Note: In 2020, Sydney City Campus students should enrol in unit code 101562 instead of unit code 102710.

101562.4 Culture and Crime

Recommended Sequence - WSU Online

Year 1

Trimester 2

102709.2 Introduction to Criminal Justice
102039.2 Crime, Deviance and Society

Trimester 3

102699.2 Youth Justice and Practice
102038.2 Crime Prevention and Community

Year 2

Trimester 4

Choose one of

102036.2 Prisons, Punishment and Criminal Justice
102712.2 First Peoples and Criminal Justice

Trimester 5

102037.2 Perspectives in Criminology
101561.3 Gender, Crime and Violence

Trimester 6

Choose one of

101562.4 Culture and Crime
102712.2 First Peoples and Criminal Justice

Equivalent Specialisation Units

The Specialisation Units listed below count towards completion of this major for students who passed these units in 2019 or earlier.

102038 - Crime, Prevention and Community

101562 - Culture & Crime

101560 - Introduction to Crime and Criminal Justice

400684 - Juvenile, Crime & Justice

102036 - Prisons, Punishment and Criminal Justice

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

101589.3 Cities: Introduction to Urban Studies

Year 2

Autumn Session

101590.3 Cultural and Social Geographies

Spring Session

101591.3 The Economics of Cities and Regions
101646.3 Analysis of Spatial Data

Year 3

Autumn Session

101593.4 Planning the City: Development, Community and Systems
101645.3 Transport, Access and Equity

Spring Session

101694.3 Geographies of Migration
101905.3 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 with a minimum of 30 credit points at Level 3

Year 1

Autumn session

102787.1 Doing Sociology

Spring session

101886.2 Brave New World: Negotiating Social Change in the 21st Century

Year 2

Autumn session

101610.3 Health, Illness and Biomedicine: A Sociological Perspective
101612.4 Identity and Belonging

Spring session

102143.2 Families and Intimate Life
102788.1 Self and Society

Year 3

Autumn session

101611.3 Home and Away: Ethnicity and Migration in Australia
101359.7 Sociology of Religion

Spring session

102733.1 Genders and sexualities: beyond the binary

Please note: From Spring 2020, unit 101330 Self and Society replaced by unit 102788 Self and Society.

Please note: From Autumn 2021, unit 102039 Crime, Deviance and Society replaced by unit 102787 Doing Sociology.

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**

101901.2 Tourism and Global Trends

Spring session

101598.5 Tourism in Society
101601.4 Issues in Contemporary Heritage

Year 2**Autumn session**

101599.4 Heritage and Tourism
101590.3 Cultural and Social Geographies

Spring session

101643.3 Heritage Interpretation

Year 3**Autumn session**

101904.3 Tourism Policy and Planning

Spring session

101905.3 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

101573.3 Human Rights, Peace and Development

Year 1 Spring session

101572.3 Development and Sustainability

Year 2 Autumn session

101331.3 Issues in World Development: Rich World, Poor World

Year 2 Spring session

101575.3 Peace-Making and Peace-Building
101905.3 Indigenous Cultures: A Global Perspective

Year 3 Autumn session

101569.3 Sustainable Futures

Year 3 Spring session

101570.3	Alternatives to Violence
101571.3	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
Parramatta Campus - Victoria Road	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
102326.2	Indonesian 102

Level 2 units

102319.2	Indonesian 201
102327.1	Indonesian 202

Level 3 units

102773.1	Indonesian 301
102774.1	Indonesian 302
102775.1	Indonesian 303
102776.1	Indonesian 304
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

Equivalent Specialisation Units

The Specialisation Units listed below count towards completion of this major for students who passed these units in 2019 or earlier.

102320 - Indonesian 301: Indonesian for Academic Purposes

102328 - Indonesian 302: Indonesian for Professional Purposes

102329 - Indonesian 303: Indonesian for Business

102330 - Indonesian 304: Contemporary Indonesia

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 Oceania, 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**

102344.2 Different Ways of Being in the World: Introduction to Social Anthropology

Spring session

102345.2 Global Structures, Local Cultures

Year 2**Autumn Session**

101612.4 Identity and Belonging
102346.2 Ethnographies of Southeast Asia and the Pacific

Spring session

102844.1 Society, Culture and Human Diversity

Year 3**Autumn Session**

102348.2 Power as a Cultural System
102349.2 The Anthropologies of Gender and Sexualities

Spring session

101905.3 Indigenous Cultures: A Global Perspective

Equivalent Specialisation Units

The specialisation units listed below count towards completion of this major for students who passed these units in 2020/21 or earlier.

102347 - Anthropologies of the Everyday

Major - Psychological Studies**M1110.1**

The Psychological Studies major comprises units in the discipline of psychology that focus on the field of inquiry that uses scientific techniques and methods to understand and explain behaviour and experience. Areas of study include: the brain and behaviour, learning, motivation and emotion, social psychology, lifespan development, perception, and cognitive processes. A Psychological Studies major does not meet APAC requirements for an

accredited sequence in Psychology. Students wishing to enrol in an accredited Psychology sequence should complete the Psychology key program of 160 credit points.

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 below with no less than three Level 3 units.

Students must complete the following two compulsory units

101184.4 Psychology: Human Behaviour
101183.4 Psychology: Behavioural Science

And 60 credit points from the Level 2/3 pool with no less than three units at Level 3

Level 2 unit pool

101684.5 Brain and Behaviour
100013.4 Experimental Design and Analysis
101676.4 Human Learning
101680.5 Perception

Level 3 unit pool

101681.6 Abnormal Psychology
101689.4 Advanced Research Methods
101677.5 Cognitive Processes
101682.7 Developmental Psychology
101193.5 Health Psychology
100015.7 History and Philosophy of Psychology
101678.5 Motivation and Emotion
101679.4 Personality
102350.3 Psychology and the Online World
100023.7 Psychology of Language
101683.4 Social Psychology

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
102626.1	Medieval and Early Modern Literature
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
102772.1	Writing and Reading Sci-Fi and Fantasy
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
102205.2	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
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
101670.3	Writing and Society
100895.4	Writing For Performance
101011.3	Writing Poetry

Please note

The Level 2 and 3 units listed below count towards completion of this Major for students who passed these units in 2016 or earlier.

Level 2 units

101869 - Studies in Postcolonial Literature

Level 3 units

101966 - Literatures of Decolonisation

The Level 3 units listed below count towards completion of this Major for students who passed these units in 2019 or earlier.

100961 - Humanities Internship

101908 - Writing and Reading Sci Fi and Fantasy

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.

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

102762.1 World Music

Spring session

102551.1 Music, Culture and Discourse

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

The Specialisation unit listed below counts towards completion of this major for students who passed this unit in 2019 or earlier.

102552 - The Politics of Australian Music

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

Students undertaking this major will be selected by one of three methods:

1. Attain an HSC Music result in band 4 or above. No audition is required.
2. Hold the following AMEB or equivalent (e.g. Trinity College) qualification:

- a. PASS standard (minimum) of 6th Grade Performance (instrument or voice) AND
- b. PASS standard (minimum) of 4th Grade musicianship and/or theory.

No audition is required.

3. Attend an audition in person as a performer and/or composer. Applicants applying as a composer will need to bring recordings and/or scores of original compositions to the audition. After applying to UAC or Directly to Western applicants are required to book an audition online.

If not auditioning, applicants will need to upload their supporting documentation (e.g. AMEB certificates demonstrating level of achievement in performance and musicianship and/or music theory).

Students must complete 80 credit points as follows

Please note: Students will complete one of these two units only - 102564 Music Theory Fundamentals or 102770 Music Theory and Songwriting.

Year 1

Autumn session

- 102553.1** Music Performance 1
102564.1 Music Theory Fundamentals

Spring session

- 102554.1** Music Performance 2
102770.1 Music Theory and Songwriting

Year 2

Autumn session

- 102555.1** Music Group Performance

Spring session

- 101539.4** The Composer-Performer

Year 3

Autumn session

- 102758.1** Interactive Electronic Media and Performance

Spring session

- 102557.1** Repertoire and Identity in Performance
102767.1 Applied Professional Music Contexts

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

The Specialisation units listed below count towards completion of this major for students who passed these units in 2019 or earlier.

- 102556 - Expanded Music Performance
- 102430 - Professional Music Project
- 102565 - Songwriting and Music Theory

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
101948.4 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
100023.7 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 - Culture and Society**M1131.1**

Culture and Society 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 units

- 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
102529.2 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
101468.2 Islam, Media and Conflict
102781.1 Labour and Culture
102789.1 Philosophy of Race and Racism
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?

Major - International English

M1132.1

International English engages students in a systematic and structured study of the English language and its variations across time and contexts. Students learn to recognise and work with the uses and features of the language that are essential to a wide range of social, academic and professional contexts. The major provides a solid and comprehensive foundation for students who aim to work professionally with English in different contexts and countries, especially those intending to pursue post-graduate qualifications in education. The major focuses on varieties and structures of English, informed by studies of English in specific discourse settings, and specifically aims to ensure that students understand the language and its use very well and that they possess a highly developed capacity to use English well across a range of contexts.

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
102812.1 English Text
102813.1 English Talk

And four units from the following, with at least 2 at level 3.

Level 1 Pool

- 101945.2** Introduction to Linguistics

Level 2 Pool

- 102489.1** Meaning in Language
102490.1 Pragmatics
101948.4 Structure of Language
102414.1 Working Grammar
102474.1 TESOL Teaching Methodology

Level 3 Pool

101451.2	Second Language Acquisition
101450.2	Sociolinguistics
102477.1	TESOL Curriculum Design
101950.1	Intercultural Communication

Major - History and Political Thought

M1137.1

Since the revival of humanist thought in the Renaissance, universities have placed studies in history and political thought at the centre of intellectual inquiry. History and politics have always examined contentious issues. Students learn to deal with conflicting information, appreciate the different ways societies have resolved issues in the past and develop skills that enable them to become responsible and active citizens. The History and Political Thought major has four compulsory units which introduce the student to historical periods from the Ancient World to the 20th century, culminating in a capstone unit that discusses the development of historical methodology from ancient times to the present. The remaining four units can be selected from a pool that encompasses political thought and historical developments across time and space, enabling students to select fields of particular interest.

Location

Campus	Mode
Bankstown Campus	Internal
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must complete eight units (80 credit points) as follows

Students must complete the following compulsory units

102766.1	Historical Methodologies
102814.1	History of the Ancient World
102000.1	Modern European History and Politics
102768.1	When Worlds Collide: European Empires and the World, c.1600-1950

Students must also complete four units from the following pools with a minimum of two units at Level 3.

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
101967.1	Cultural History of Books and Reading
100001.3	Keeping the Past
101797.2	Political Terror
100882.3	Politics of Sex and Gender
101992.1	Religion and the Emergence of Modern Politics
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
102835.1	Catastrophe: The Environmental History of the Ancient 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
102734.1	History of Religion
101991.1	History of Sexuality
100507.4	History of Modern China to 1949
102184.1	History of Muslim Civilisations and Ideas
102842.1	History of the People's Republic of China
101988.1	Human Rights and Culture
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
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
101913.2	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?

Equivalent Specialisation Unit

The Specialisation unit listed below count towards completion of this major for students who passed this unit in 2021 or earlier.

63178 - Social and Political Developments in Contemporary China

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
200924.3	Cost Benefit Analysis
200048.3	Financial Institutions and Markets
200815.2	Globalisation and Sustainability
200925.1	Growth, Cycles and Crises
200926.1	Macroeconomic Measures and Models
200549.3	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
200614.3	Enterprise Industrial Relations
200912.1	Enterprise Leadership
200865.2	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.

200589.3	Export Strategy and Applications
200815.2	Globalisation and Sustainability
200626.3	International Business Strategy
200094.4	International Marketing
200591.2	Introduction to International Business
200863.1	Leadership and Entrepreneurship
200864.2	Managing in the Global Environment
200098.4	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.

200924.3	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
200864.2	Managing in the Global Environment
200915.3	The Service Enterprise

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

200025.3	Discrete Mathematics
300672.3	Mathematics 1A
300673.3	Mathematics 1B

Level 2

Choose two units from the Level 2 units below

200028.4	Advanced Calculus
200030.5	Differential Equations
200027.4	Linear Algebra

Level 3

200193.3	Abstract Algebra
200023.4	Analysis
200022.4	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.

300093.8	Computer Graphics
300565.3	Computer Networking

300104.5	Database Design and Development
300491.3	Games Technology
300580.4	Programming Fundamentals
300578.4	Professional Development
300585.3	Systems Analysis and Design
300862.3	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

300565.3	Computer Networking
300095.6	Computer Networks and Internets
300138.4	LAN Workshop
300143.5	Network Security
300575.3	Networked Systems Design
300166.4	Systems and Network Management
300952.3	Wireless and Mobile Networks

Choose one of

300569.3	Computer Security
301124.3	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

300104.5	Database Design and Development
300570.4	Human-Computer Interaction
300960.5	Mobile Applications Development
300143.5	Network Security
300579.7	Professional Experience
300961.4	Social Computing
300976.2	Technologies for Mobile Applications
300952.3	Wireless and Mobile Networks

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

300951.3	Clinical Classification and Coding
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300104.5	Database Design and Development
300950.3	Fundamentals of Medical Concepts and Terminology
300955.3	Healthcare Data Environments
300956.2	Healthcare Software and Systems
300570.4	Human-Computer Interaction
300566.3	Introduction to Health Informatics
300585.3	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:

301110.2	Applications of Big Data
300584.5	Emerging Trends in Information Systems
300573.3	Information Systems in Context
301033.2	Introduction to Data Science
300580.4	Programming Fundamentals
200032.7	Statistics for Business
300958.4	Social Web Analytics
301109.3	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

300096.7	Computer Organisation
301124.3	Ethical Hacking Principles and Practice
300404.3	Formal Software Engineering
300128.6	Information Security
300143.5	Network Security
300167.5	Systems Programming 1

Choose two units from the following

300799.1	Advanced Theoretical Computer Science
300095.6	Computer Networks and Internets
300130.5	Internet Programming
300698.5	Operating Systems Programming
300958.4	Social Web Analytics
300165.5	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.

300093.8	Computer Graphics
102265.1	Graphic Design: Interactive Digital Media
300570.4	Human-Computer Interaction
301033.2	Introduction to Data Science
200032.7	Statistics for Business
300958.4	Social Web Analytics
301109.3	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

300565.3	Computer Networking
300095.6	Computer Networks and Internets
300138.4	LAN Workshop
300143.5	Network Security
300575.3	Networked Systems Design
300166.4	Systems and Network Management
300952.3	Wireless and Mobile Networks

Choose one of

300569.3	Computer Security
301124.3	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

301174.2	Artificial Intelligence
300103.5	Data Structures and Algorithms
301033.2	Introduction to Data Science
300960.5	Mobile Applications Development

301205.2	Robotic Programming
301109.3	Visual Analytics

Choose two units from the following

300093.8	Computer Graphics
300130.5	Internet Programming
300698.5	Operating Systems Programming
301034.2	Predictive Modelling
300165.5	Systems Administration Programming
300958.4	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

300103.5	Data Structures and Algorithms
300960.5	Mobile Applications Development
300698.5	Operating Systems Programming
301205.2	Robotic Programming
300167.5	Systems Programming 1
300583.4	Web Systems Development

Choose two units from the following

301174.2	Artificial Intelligence
300093.8	Computer Graphics
301124.3	Ethical Hacking Principles and Practice
300130.5	Internet Programming
301033.2	Introduction to Data Science
300165.5	Systems Administration Programming
300958.4	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

300565.3	Computer Networking
300095.6	Computer Networks and Internets
300128.6	Information Security
300575.3	Networked Systems Design
300143.5	Network Security
300952.3	Wireless and Mobile Networks

Choose two units from the following

301124.3	Ethical Hacking Principles and Practice
300698.5	Operating Systems Programming
300166.4	Systems and Network Management
300165.5	Systems Administration Programming
300958.4	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

300096.7	Computer Organisation
300103.5	Data Structures and Algorithms
301124.3	Ethical Hacking Principles and Practice
300128.6	Information Security
300143.5	Network Security

Choose one unit from the following

300698.5	Operating Systems Programming
300167.5	Systems Programming 1

Choose two units from the following

300095.6	Computer Networks and Internets
300130.5	Internet Programming
300958.4	Social Web Analytics
300165.5	Systems Administration Programming
300166.4	Systems and Network Management

Major - Technology Entrepreneurship

M3126.1

The Technology Entrepreneurship major is focused on guiding students through all stages of turning their innovative idea into a start-up company. In an entrepreneurial ecosystem, you will learn the knowledge and techniques for opportunity discovery, impact analysis, customer analysis, strategic team-building and leadership, the psychology and ethics of the start-up, funding modelling and financial analysis, growth and exit strategies. We will be helping you with defining your idea, forming a team around it, building a prototype, developing a pitch for investors and running a start-up company.

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Students in courses 3506, 3634 must complete 80 credit points as follows

300580.4	Programming Fundamentals
100483.2	Principles of Professional Communication 1
301165.4	Incubator 1: Innovation and Creativity for Entrepreneurship
301206.3	Incubator 2: Start-up Essentials

301168.2	Incubator 3: Product Development
301169.2	Incubator 4: Commercial and Financial Setting of Entrepreneurship
301170.2	Incubator 5: Operational Aspects of Entrepreneurship
301171.2	Incubator 6: Funding and Start-up

Students in courses 3639, 3684, 3687, 3688 must complete 80 credit points as follows

301165.4	Incubator 1: Innovation and Creativity for Entrepreneurship
301206.3	Incubator 2: Start-up Essentials
301168.2	Incubator 3: Product Development
301169.2	Incubator 4: Commercial and Financial Setting of Entrepreneurship
301170.2	Incubator 5: Operational Aspects of Entrepreneurship
301171.2	Incubator 6: Funding and Start-up
301172.3	Incubator 7: Growth and Exit Strategies
200979.2	Foundations of Entrepreneurship

Students in courses 3730, 3731 must complete 80 credit points as follows

301165.4	Incubator 1: Innovation and Creativity for Entrepreneurship
301206.3	Incubator 2: Start-up Essentials
301168.2	Incubator 3: Product Development
301169.2	Incubator 4: Commercial and Financial Setting of Entrepreneurship
301170.2	Incubator 5: Operational Aspects of Entrepreneurship
301171.2	Incubator 6: Funding and Start-up
301172.3	Incubator 7: Growth and Exit Strategies

Choose one of

200979.2	Foundations of Entrepreneurship
300580.4	Programming Fundamentals
100483.2	Principles of Professional Communication 1

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
200488.6	Corporate Financial Management
200079.3	Derivatives
200916.1	Economic and Financial Modelling
200048.3	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
200917.2	Innovation, Enterprise and Society
200914.1	Working in Professions

Choose one of

200052.7	Introduction to Economic Methods
200032.7	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
200910.2	Financing Enterprises
200048.3	Financial Institutions and Markets

Choose one of

200052.7	Introduction to Economic Methods
200032.7	Statistics for Business

Spring session

200912.1	Enterprise Leadership
200488.6	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
200917.2 Innovation, Enterprise and Society

And one elective

Spring session

200921.1 Security Analysis and Business Valuation

Enterprise Engaged Unit

200537.4 Economics and Finance Engagement Project

And two electives

Part-time

Year 1

Autumn session

200909.2 Enterprise Law
200048.3 Financial Institutions and Markets

Spring session

200911.1 Enterprise Innovation and Markets
200910.2 Financing Enterprises

Year 2

Autumn session

200488.6 Corporate Financial Management

Choose one of

200052.7 Introduction to Economic Methods
200032.7 Statistics for Business

Spring session

200912.1 Enterprise Leadership

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
200917.2 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	Mode
Parramatta City Campus-Macquarie Street	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
200924.3	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
200549.3	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
200917.2	Innovation, Enterprise and Society
200914.1	Working in Professions

Choose one of

200052.7	Introduction to Economic Methods
200032.7	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
200910.2	Financing Enterprises
200922.1	Consumers, Firms and Markets

Choose one of

200052.7	Introduction to Economic Methods
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200032.7	Statistics for Business
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Spring session

200549.3	The Australian Macroeconomy
200912.1	Enterprise Leadership
200911.1	Enterprise Innovation and Markets

And one elective

Year 2

Autumn session

200924.3	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
200917.2	Innovation, Enterprise and Society

And one elective

Spring session

200925.1	Growth, Cycles and Crises
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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
200911.1	Enterprise Innovation and Markets

Spring session

200910.2	Financing Enterprises
200922.1	Consumers, Firms and Markets

Year 2

Autumn session

200549.3	The Australian Macroeconomy
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Choose one of

200052.7	Introduction to Economic Methods
200032.7	Statistics for Business

Spring session**200912.1** Enterprise Leadership

And one elective

Year 3**Autumn session****200924.3** 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
200917.2 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

200614.3	Enterprise Industrial Relations
200740.5	Human Resource and Industrial Relations Strategy
200859.1	Human Resource Development
200621.3	International Human Resource Management
200300.2	Managing People at Work
200613.3	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
301123.2	Management Analytics

200376.4 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

200910.2 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
301123.2 Management Analytics

And one elective

Year 2

Autumn session

200614.3 Enterprise Industrial Relations
200621.3 International Human Resource Management

And two electives

Spring session

200739.2 Reward and Performance Management
200376.4 Managing and Developing Careers

And two electives

Year 3

Autumn session

200860.1 People, Work and Society
200613.3 Negotiation, Bargaining and Advocacy
200919.1 Innovation and Professional Practice

And one elective

Spring session

200740.5 Human Resource and Industrial Relations Strategy

Enterprise Engaged Unit

200575.3 Processes and Evaluation in Employment Relations

And two electives

Part-time

Year 1

Autumn session

200910.2 Financing Enterprises
200912.1 Enterprise Leadership

Spring session

301123.2 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

200614.3 Enterprise Industrial Relations

And one elective

Spring session

200376.4 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****200613.3** Negotiation, Bargaining and Advocacy

And one elective

Spring session**200740.5** 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

200589.3	Export Strategy and Applications
200815.2	Globalisation and Sustainability
200626.3	International Business Strategy
200094.4	International Marketing
200591.2	Introduction to International Business
200863.1	Leadership and Entrepreneurship
200864.2	Managing in the Global Environment
200098.4	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
200032.7	Statistics for Business
200915.3	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
200032.7	Statistics for Business

Spring session

200909.2	Enterprise Law
200910.2	Financing Enterprises
200864.2	Managing in the Global Environment

And one elective

Year 2**Autumn session**

200915.3	The Service Enterprise
200815.2	Globalisation and Sustainability

And two electives

Spring session

200589.3	Export Strategy and Applications
200098.4	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

200626.3	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

200910.2 Financing Enterprises
200912.1 Enterprise Leadership

Year 2**Autumn session**

200591.2 Introduction to International Business
200032.7 Statistics for Business

Spring session

200864.2 Managing in the Global Environment

And one elective

Year 3**Autumn session**

200815.2 Globalisation and Sustainability

And one elective

Spring session

200915.3 The Service Enterprise

And one elective

Year 4**Autumn session**

200589.3 Export Strategy and Applications

And one elective

Spring session

200098.4 The Markets of Asia

And one elective

Year 5**Autumn session**

200094.4 International Marketing
200863.1 Leadership and Entrepreneurship

Spring session

200918.1 Design Thinking for Creativity

And one elective

Year 6**Autumn session**

200626.3 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
200864.2	Managing in the Global Environment
200865.2	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
301123.2	Management Analytics
200376.4	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

200910.2	Financing Enterprises
200912.1	Enterprise Leadership
200911.1	Enterprise Innovation and Markets
200585.4	Organisational Behaviour

Spring session

200909.2	Enterprise Law
301123.2	Management Analytics
200864.2	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

200865.2	Managing Operations
200157.4	Organisational Learning and Development
200376.4	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

200910.2	Financing Enterprises
200912.1	Enterprise Leadership

Spring session

200909.2	Enterprise Law
301123.2	Management Analytics

Year 2

Autumn session

200911.1	Enterprise Innovation and Markets
200585.4	Organisational Behaviour

Spring session

200864.2	Managing in the Global Environment
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And one elective

Year 3

Autumn session

200158.4	Business, Society and Policy
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And one elective

Spring session

200865.2	Managing Operations
-----------------	---------------------

And one elective

Year 4

Autumn session

200862.1	Creating Change and Innovation
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And one elective

Spring session

200376.4	Managing and Developing Careers
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And one elective

Year 5

Autumn session

200863.1	Leadership and Entrepreneurship
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And one elective

Spring session

200157.4	Organisational Learning and Development
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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
200032.7	Statistics for Business
200915.3	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
200032.7	Statistics for Business

Spring session

200910.2	Financing Enterprises
200909.2	Enterprise Law
200084.2	Consumer Behaviour

And one elective

Year 2**Autumn session**

200915.3	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
200032.7 Statistics for Business

Year 2**Autumn session**

200912.1 Enterprise Leadership
200084.2 Consumer Behaviour

Spring session

200910.2 Financing Enterprises

And one elective

Year 3**Autumn session**

200915.3 The Service Enterprise

And one elective

Spring session

200086.3 Marketing Communications

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 - 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

200972.2 Accounting in Context

200534.3	Accounting Information Systems
200974.1	Accounting Standards and Governance
200535.3	Auditing and Assurance Services
200109.7	Corporate Accounting Systems
200111.4	Financial Accounting Applications
200116.6	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:

200108.3	Contemporary Management Accounting
200488.6	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:

200917.2	Innovation, Enterprise and Society
200118.4	The Accountant as a Consultant
200914.1	Working in Professions

Choose one of

200052.7	Introduction to Economic Methods
200032.7	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

200910.2	Financing Enterprises
200909.2	Enterprise Law
200972.2	Accounting in Context

Choose one of

200052.7	Introduction to Economic Methods
200032.7	Statistics for Business

Spring session

200912.1	Enterprise Leadership
200111.4	Financial Accounting Applications
200911.1	Enterprise Innovation and Markets

And one elective

This may include the Accreditation elective unit below

200488.6	Corporate Financial Management
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Year 2

Autumn session

200116.6	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
200917.2	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
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Year 3

Autumn session

200109.7	Corporate Accounting Systems
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And three electives

These may include the Accreditation elective units below

200108.3	Contemporary Management Accounting
200187.3	Taxation Law

Spring session

200535.3	Auditing and Assurance Services
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Enterprise Engaged Unit

200118.4	The Accountant as a Consultant
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And two electives

Part-time

Year 1

Autumn session

200910.2	Financing Enterprises
200909.2	Enterprise Law

Spring session

200972.2	Accounting in Context
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Choose one of

200052.7	Introduction to Economic Methods
200032.7	Statistics for Business

Year 2

Autumn session

200912.1	Enterprise Leadership
200911.1	Enterprise Innovation and Markets

Spring session

200111.4 Financial Accounting Applications
200914.1 Working in Professions

Year 3**Autumn session**

200116.6 Management Accounting Fundamentals
200973.2 Techniques in Financial Accounting

Spring session

Two electives

These may include the two Accreditation elective units below

200488.6 Corporate Financial Management
200183.4 Law of Business Organisations

Year 4**Autumn session**

200974.1 Accounting Standards and Governance
200917.2 Innovation, Enterprise and Society

Spring session

200534.3 Accounting Information Systems

And one elective

This may include the Accreditation elective unit below

200108.3 Contemporary Management Accounting

Year 5**Autumn session**

200109.7 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**

200535.3 Auditing and Assurance Services

And one elective

Spring session

Enterprise Engaged Unit

200118.4 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

200992.2	Food and Beverage Management
200995.2	Hospitality and Tourism in Practice
200989.2	Hospitality Places and Spaces
200994.2	Hospitality Profitability and Entrepreneurship
200991.1	Service Industry Analytics
200990.1	Special Event Management
200993.2	The Accommodation Industry
200988.2	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
200561.4	Hospitality Management Applied Project
200032.7	Statistics for Business
200915.3	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
200988.2 The Business of Hospitality
200032.7 Statistics for Business

Spring session

200909.2 Enterprise Law
200910.2 Financing Enterprises
200992.2 Food and Beverage Management

And one elective

Year 2**Autumn session**

200915.3 The Service Enterprise
200993.2 The Accommodation Industry
200990.1 Special Event Management

And one elective

Spring session

200989.2 Hospitality Places and Spaces
200918.1 Design Thinking for Creativity

And two electives

Year 3**Autumn session**

200991.1 Service Industry Analytics
200994.2 Hospitality Profitability and Entrepreneurship

And two electives

Spring session

200995.2 Hospitality and Tourism in Practice

Enterprise Engaged Unit

200561.4 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

200910.2 Financing Enterprises
200032.7 Statistics for Business

Year 2**Autumn session**

200988.2 The Business of Hospitality
200912.1 Enterprise Leadership

Spring session

200992.2 Food and Beverage Management

And one elective

Year 3**Autumn session**

200915.3 The Service Enterprise
200993.2 The Accommodation Industry

Spring session

200994.2 Hospitality Profitability and Entrepreneurship

And one elective

Year 4**Autumn session**

200990.1 Special Event Management

And one elective

Spring session

200989.2 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

200995.2 Hospitality and Tourism in Practice

Enterprise Engaged Unit

200561.4 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
201079.1	Sport and Society
200996.1	Sport Entertainment
200998.1	Strategic Sport Leadership
201000.1	The World of Sport Business

Note: From 2021 unit 200999 Sport and Society replaced by 201079 Sport and Society.

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
200032.7	Statistics for Business
200915.3	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
200032.7	Statistics for Business

Spring session

200910.2	Financing Enterprises
200909.2	Enterprise Law
200996.1	Sport Entertainment

And one elective

Year 2

Autumn session

200915.3	The Service Enterprise
201079.1	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

200910.2	Financing Enterprises
200912.1	Enterprise Leadership

Year 2

Autumn session

201000.1	The World of Sport Business
200032.7	Statistics for Business

Spring session

200996.1	Sport Entertainment
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And one elective

Year 3**Autumn session**

200915.3 The Service Enterprise
201079.1 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

Replaced Units

The core unit listed below counts towards completion of this course for students who passed this unit in 2020 or earlier.

200999 - Sport and Society

Major - Game Programming**MT3012.1****Location**

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Campus

Penrith Campus

Mode

Internal

Specialisation Structure

Students must successfully complete 80 credit points as follows

300565.3	Computer Networking
300093.8	Computer Graphics
200025.3	Discrete Mathematics
300570.4	Human-Computer Interaction
301173.2	Special Effects Programming
300582.6	Technologies for Web Applications
300862.3	Video Games Development

Choose one of

300147.5	Object Oriented Programming
300581.5	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.

101922.1	Web and Time-based Design
102273.3	Motion Design
300862.3	Video Games Development
102317.2	Visual Effects
300570.4	Human-Computer Interaction
102276.2	Graphic Design: Developing a Personal Portfolio

Major - Data Science**MT3038.1**

Data is ubiquitous, and analysing data plays an increasingly important role in many careers. Data Science is based on mathematics and statistics, but there is more to it: a Data Scientist has the required expertise to convert all forms of data into valuable information. Building on the Bachelor of Mathematics, this major equips graduates with additional skills and knowledge for designing experimental studies, building and fitting of models, visualisation, estimation and prediction, storage and retrieval of big data. Such skills are essential for tasks such as the analysis of customer

transactions and behaviour, scientific investigations, financial trends, and online behaviour.

Location

Campus	Mode
Campbelltown Campus	Internal
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must successfully complete 80 credit points as per the recommended sequence below.

Recommended Sequence

Full-time

Year 1

Spring

301032.2	Making Sense of Data
301033.2	Introduction to Data Science

Year 2

Autumn

301107.2	Analytics Programming
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Spring

300147.5	Object Oriented Programming
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Year 3

Autumn

301109.3	Visual Analytics
301250.1	Probabilistic Models and Inference

Spring

301035.2	Environmental Informatics
300958.4	Social Web Analytics

Recommended Sequence

Part-time

Year 1

Spring

301032.2	Making Sense of Data
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Year 2

Spring

301033.2	Introduction to Data Science
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Year 4

Autumn

301107.2	Analytics Programming
-----------------	-----------------------

Spring

300147.5	Object Oriented Programming
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Year 5

Autumn

301109.3	Visual Analytics
-----------------	------------------

Spring

300958.4	Social Web Analytics
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Year 6

Autumn

301250.1	Probabilistic Models and Inference
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Spring

301035.2	Environmental Informatics
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Major - Financial Mathematics

MT3039.1

Sophisticated mathematical techniques, such as stochastic calculus, are critical tools in modern finance. Building on the content taught in the Bachelor of Mathematics, this major equips graduates with the required knowledge, as well as with the background that is required to apply this knowledge successfully. In this major, you will learn not only the essential mathematical skills, but you will also take units from the School of Business as well as data science units that put these skills in context. The combination of theoretical skills and practical applications will give you the extra edge over competitors in the job market.

Location

Campus	Mode
Campbelltown Campus	Internal
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must successfully complete 80 credit points as per the recommended sequence below.

Recommended Sequence**Full-time****Year 1****Spring**

200488.6 Corporate Financial Management
301033.2 Introduction to Data Science

Year 2**Autumn**

301107.2 Analytics Programming

Spring

200048.3 Financial Institutions and Markets

Year 3**Autumn**

200079.3 Derivatives
200819.2 Investment Management

Spring

200055.5 International Finance
301380.1 Financial Mathematics

Recommended Sequence**Part-time****Year 1****Spring**

200488.6 Corporate Financial Management

Year 2**Spring**

301033.2 Introduction to Data Science

Year 4**Autumn**

301107.2 Analytics Programming

Spring

200048.3 Financial Institutions and Markets

Year 5**Autumn**

200819.2 Investment Management

Spring

301380.1 Financial Mathematics

Year 6**Autumn**

200079.3 Derivatives

Spring

200055.5 International Finance

Key Program - Computational Mathematics**MT3040.1**

The power of modern computers adds substantial clout to traditional mathematical and statistical techniques — provided that you know how to make use of the opportunities that computers offer. Building on the Bachelor of Mathematics, this major equips graduates with the skills to make the best use of computational tools. You will learn how to use computers effectively as a mathematician or a statistician, with a focus on efficiency, reliability, and security. These skills are absolutely indispensable if you consider enrolling for an HDR degree, but they will also help you make a case in your next job application.

Location

Campus	Mode
Campbelltown Campus	Internal
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must successfully complete 80 credit points as per the recommended sequence below.

Recommended Sequence**Full-time****Year 1****Spring**

300096.7 Computer Organisation
300147.5 Object Oriented Programming

Year 2**Autumn**

300103.5 Data Structures and Algorithms

Spring

300958.4 Social Web Analytics

Year 3**Autumn**

301174.2 Artificial Intelligence
301033.2 Introduction to Data Science

Spring

300404.3 Formal Software Engineering
300128.6 Information Security

Recommended Sequence**Part-time****Year 1****Spring**

300147.5 Object Oriented Programming

Year 2**Spring**

300096.7 Computer Organisation

Year 4**Autumn**

300103.5 Data Structures and Algorithms

Spring

300958.4 Social Web Analytics

Year 5**Autumn**

301033.2 Introduction to Data Science

Spring

300128.6 Information Security

Year 6**Autumn**

301174.2 Artificial Intelligence

Spring

300404.3 Formal Software Engineering

Key Program - Secondary Teaching**MT3041.1**

There is a high demand for mathematics teachers throughout Australia, with Western Sydney identified as a

particular high-demand location by the NSW Department of Education. Building on the Bachelor of Mathematics, this major equips graduates with additional knowledge and skills in contemporary educational concepts. After completing the Bachelor of Mathematics (Secondary Education), graduates can enrol in a postgraduate course to become accredited teachers. The core units of the Bachelor of Mathematics meet the NESA requirements for Mathematics as a first teaching area, and students can choose elective units to qualify for another teaching area to gain additional options for employment.

Location

Campus	Mode
Campbelltown Campus	Internal
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

All students must complete sub-major SM1100 Education Studies plus four units from one of the alternate pools.

SM1100.1 Education Studies

A minimum of 30 credit points at Level 3 is required across all Secondary Teaching major units.

Note: The core units of 3778 Bachelor of Mathematics meet the NESA requirements for Mathematics as a first teaching area.

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Students may choose four units from the following alternate pools

Mathematics/Physics

300828.2 Physics 1
300829.2 Physics 2
300930.2 Classical Physics and Advanced Technologies
301392.1 Quantum Physics

Note: from 2021 this unit replaces 300923 Quantum Physics

301262.1 Classical Physics

Note: In combination with the core units of 3778 Bachelor of Mathematics, completing four units from this pool meets the NESA requirements for Mathematics/Physics as a first teaching area.

Information Processes and Technology

300104.5 Database Design and Development
300565.3 Computer Networking
300095.6 Computer Networks and Internets
300166.4 Systems and Network Management
300147.5 Object Oriented Programming
300096.7 Computer Organisation
300130.5 Internet Programming

Note: Completing four units from this pool meets the NESA requirements for Information Processes and Technologies as an additional teaching area.

Software Design and Development

300585.3	Systems Analysis and Design
300144.6	Object Oriented Analysis
300147.5	Object Oriented Programming
300096.7	Computer Organisation
300130.5	Internet Programming
300698.5	Operating Systems Programming
300960.5	Mobile Applications Development

Note: Completing four units from this pool meets the NESA requirements for Software Design and Development as an additional teaching area.

Recommended Sequence**Full-time****Year 1****Spring**

Two units from Secondary Teaching major

Year 2**Autumn**

One unit from Secondary Teaching major

Spring

One unit from Secondary Teaching major

Year 3**Autumn**

Two units from Secondary Teaching major

Spring

Two units from Secondary Teaching major

Recommended Sequence**Part-time****Year 1****Spring**

One unit from Secondary Teaching major

Year 2**Spring**

One unit from Secondary Teaching major

Year 4**Autumn**

One unit from Secondary Teaching major

Spring

One unit from Secondary Teaching major

Year 5**Autumn**

One unit from Secondary Teaching major

Spring

One unit from Secondary Teaching major

Year 6**Autumn**

One unit from Secondary Teaching major

Spring

One unit from Secondary Teaching major

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

102555.1	Music Group Performance
102557.1	Repertoire and Identity in Performance
102758.1	Interactive Electronic Media and 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

The specialisation unit listed below counts towards completion of this major for students who passed this unit in 2019 or earlier.

102556 - Expanded Music Performance

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
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)
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Students must also complete 3 units from the following pool

Level 1 unit

102805.1	Indigenous Landscapes
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Level 2 units

101752.2	Pigments of the Imagination
101753.3	Revaluing Indigenous Economics (Day Mode)
101754.3	From Corroborees to Curtain Raisers (Day Mode)
101755.2	From Ochre to Acrylics to New Technologies

Level 3 units

101756.2	Bridging the Gap: Re-engaging Indigenous Learners
101757.2	The Making of the 'Aborigines'
101758.2	Learning through Indigenous Australian Community Service (Day Mode)
101759.2	Rethinking Research with Indigenous Australians: Independent Study Project (Day Mode)

Equivalent Specialisation Units

The Level 3 unit listed below counts towards completion of the Sub-major for students who successfully completed the unit in 2019 or earlier.

100961 - Humanities Internship

The Level 1 unit listed below counts towards completion of the Sub-major for students who successfully completed the unit in Autumn 2020 or earlier.

101878 - Indigenous Landscapes

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
102546.1	Western Art Music History
102762.1	World Music

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

The specialisation unit listed below counts towards completion of this major for students who passed this unit in 2019 or earlier.

102552 - The Politics of Australian Music

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
102529.2	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
101468.2	Islam, Media and Conflict
102781.1	Labour and Culture
102789.1	Philosophy of Race and Racism
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

The Level 3 unit listed below counts towards completion of the Sub-major for students who successfully completed the unit in 2019 or earlier.

100961 - Humanities Internship

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
101907.1	Introduction to Literary Studies
101909.1	Methods of Reading
102765.1	The Value of Literature

The unit listed below counts as a compulsory unit towards completion of this Sub-major for students who passed this unit in 2019 or earlier.

101976 - English Literature After 1830

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
- 101909.1 Methods of Reading
- 102765.1 The Value of Literature

The unit listed below counts as a compulsory unit towards completion of this Sub-major for students who passed this unit in 2019 or earlier.

101976 - English Literature After 1830

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
- 102626.1 Medieval and Early Modern Literature
- 102626.1 Medieval and Early Modern Literature
- 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
- 102772.1 Writing and Reading Sci-Fi and Fantasy
- 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
- 102205.2 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
- 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
- 101670.3 Writing and Society
- 100895.4 Writing For Performance
- 101011.3 Writing Poetry

Please note

The Level 2 and 3 units listed below count towards completion of this Sub-major for students who passed these units in 2016 or earlier.

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

The Level 3 units listed below count towards completion of this Sub-major for students who passed these units in 2019 or earlier.

- 100961 - Humanities Internship
- 101908 - Writing and Reading Sci Fi and Fantasy

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.

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

102768.1	When Worlds Collide: European Empires and the World, c.1600-1950
102000.1	Modern European History and Politics
101992.1	Religion and the Emergence of Modern Politics
102766.1	Historical Methodologies

Important Note: To meet NESAs subject area teaching requirements students who wish to teach modern history must include one unit of Ancient History. This may be attained by approved cross-institutional study, by completing the level 3 unit 102492 Catastrophe: The Environmental History of the Ancient and Modern World, or by completing the level 2 unit 100244 Ancient Western Culture: Periclean Athens. It is also strongly recommended that students select at least one Australian history unit.

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
101967.1	Cultural History of Books and Reading
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
102479.1	Cultures of Crime and Punishment
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
102734.1	History of Religion
101991.1	History of Sexuality
100507.4	History of Modern China to 1949
102184.1	History of Muslim Civilisations and Ideas
101988.1	Human Rights and Culture
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
101913.2	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?

Equivalent Specialisation Units

The Level 2 and Level 3 units listed below count towards completion of the major for students who successfully completed the units in 2015 or earlier.

Level 2

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

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
102006	- Histories of Crime and Punishment
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

The Level 1, Level 2 and Level 3 units listed below count towards completion of the major for students who successfully completed the units in 2019 or earlier.

Level 1

101910	- Global History
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Level 2

101973	- Australian Politics
100861	- Empire: European Colonial Rule and its Subjects 1750-1920

Level 3

100961	- Humanities Internship
102522	- International Study Tours
102001	- Theories and Methods of History

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
102189.1	International Organisations and Global Governance
102190.1	International Relations of Southeast Asia
102193.1	International Special Study
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.

Level 1

101737 - World Politics: An Introduction

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?

The Level 3 units listed below count towards completion of the sub-major for students who successfully completed the units in 2019 or earlier.

100961 - Humanities Internship
102522 - International Study Tours

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
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
100875.4	Literature and Philosophy
100275.4	Philosophies of Love and Death
102417.1	Philosophy and Environment
102493.1	Philosophy of History
102789.1	Philosophy of Race and Racism
101965.2	Philosophy of Religion
100969.2	Theories of Conflict and Violence
101913.2	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

The Level 3 unit listed below counts towards completion of the sub-major for students who successfully completed the unit in 2019 or earlier.

- 100961 - Humanities Internship

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

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.

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
102804.1	Japanese 204: Speaking and Listening

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

Equivalent Specialisation Units

The Specialisation unit listed below count towards completion of this major for students who passed this unit in Autumn 2020 or earlier.

102031	- Japanese 204
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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
Parramatta Campus - Victoria Road	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
102326.2	Indonesian 102

Level 2 units

102319.2	Indonesian 201
102327.1	Indonesian 202

Level 3 units

102773.1	Indonesian 301
102774.1	Indonesian 302

102775.1	Indonesian 303
102776.1	Indonesian 304
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

Equivalent Specialisation Units

102320 - Indonesian 301: Indonesian for Academic Purposes
102328 - Indonesian 302: Indonesian for Professional Purposes
102329 - Indonesian 303: Indonesian for Business
102330 - Indonesian 304: Contemporary Indonesia

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 - Psychological Studies

SM1115.1

The Psychological Studies sub-major comprises units in the discipline of psychology that focus on the field of inquiry that uses scientific techniques and methods to understand and explain behaviour and experience. Areas of study include: the brain and behaviour, learning, motivation and emotion, social psychology, lifespan development, perception and cognitive processes. A Psychological Studies sub-major does not meet APAC requirements for an accredited sequence in Psychology. Students wishing to enrol in an accredited Psychology sequence should complete the Psychology key program of 160 credit points.

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 two compulsory units

101183.4	Psychology: Behavioural Science
101184.4	Psychology: Human Behaviour

And

20 credit points from the following Level 2/3 unit pools.

Level 2 unit pool

101684.5	Brain and Behaviour
100013.4	Experimental Design and Analysis

101676.4 Human Learning
101680.5 Perception

Level 3 unit pool

101681.6 Abnormal Psychology
101689.4 Advanced Research Methods
101677.5 Cognitive Processes
101682.7 Developmental Psychology
101193.5 Health Psychology
100015.7 History and Philosophy of Psychology
101678.5 Motivation and Emotion
101679.4 Personality
102350.3 Psychology and the Online World
100023.7 Psychology of Language
101683.4 Social Psychology

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
102626.1 Medieval and Early Modern Literature
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
102772.1 Writing and Reading Sci-Fi and Fantasy
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
102205.2 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
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
101670.3	Writing and Society
100895.4	Writing For Performance
101011.3	Writing Poetry

Please note

The Level 2 and 3 units listed below count towards completion of this Sub-major for students who passed these units in 2019 or earlier.

Level 2 units

101869 - Studies in Postcolonial Literature

Level 3 units

101966 - Literatures of Decolonisation

The Level 3 units listed below count towards completion of this Sub-major for students who passed these units in 2019 or earlier.

100961 - Humanities Internship

101908 - Writing and Reading Sci Fi and Fantasy

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.

Sub-major - Digital Cultures**SM1117.1**

The Digital Cultures sub-major offers students the opportunity to learn about how cutting edge technology and digital practices are changing society. By selecting from units analysing new media, visual arts, and digital design and the effects that the use of these new technologies have on culture and society, students will gain the necessary skills to position themselves for careers in a wide variety of contexts that require understanding of technology or digital media and its impact. Complementing these analytical skills, students will also gain practical skills in the creation of digital media and design.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must successfully complete 40 credit points as follows

Note: Students in the Bachelor of Creative Industries complete the structure under the heading Bachelor of Creative Industries below.

Students must complete the following compulsory units:

102410.2	Digital Cultures
102425.1	Digital Humanities and Research Methods (UG)

Students must also complete the two units from the following pools:

Level 1 Pool

102421.2	Data, Mediation, Power
102263.3	Image Design
101926.2	Media Cultures and Industries
101921.1	Visual Storytelling
101922.1	Web and Time-based Design
101920.2	Writing Ecologies

Level 2 Pool

101928.3	Media Law and Ethics
102266.2	Researching the Visual

Level 3 Pool

102269.2	Data Visualisation
102267.2	Interactive Design: Apps
101931.1	Media Memory
101010.3	What is the Human?

Bachelor of Creative Industries students

Creative Industries students must undertake 102263 Image Design or 101922 Web and Time Based Design as their Introduction to Major unit, and then complete the following units to achieve this sub-major:

102410.2	Digital Cultures
102425.1	Digital Humanities and Research Methods (UG)

Students must also complete an additional two units from the following:

102269.2	Data Visualisation
102263.3	Image Design
102267.2	Interactive Design: Apps
101931.1	Media Memory
102266.2	Researching the Visual
101922.1	Web and Time-based Design
101010.3	What is the Human?

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
101948.4	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
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Level 3 Unit Pool

101946.1	Discourse Analysis
102043.1	Historical Linguistics
101950.1	Intercultural Communication
100023.7	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 - 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 - Culture and Society**SM1138.1**

Culture and Society 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
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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
102529.2	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
101468.2	Islam, Media and Conflict
102781.1	Labour and Culture
102789.1	Philosophy of Race and Racism
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?

Sub-major - International English**SM1139.1**

International English engages students in a systematic and structured study of the English language and its variations across time and contexts. Students learn to recognise and work with the uses and features of the language that are essential to a wide range of social, academic and professional contexts. The sub-major provides a solid and comprehensive foundation for students who aim to work professionally with English in different contexts and countries, especially those intending to pursue post-graduate qualifications in education. The sub-major focuses on varieties and structures of English, informed by studies of English in specific discourse settings, and specifically aims to ensure that students understand the language and its use very well and that they possess a highly developed capacity to use English well across a range of contexts.

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
102812.1	English Text
102813.1	English Talk

Sub-major - History and Political Thought**SM1145.1**

Since the revival of humanist thought in the Renaissance, universities have placed studies in history and political thought at the centre of intellectual inquiry. History and politics have always examined contentious issues. Students learn to deal with conflicting information, appreciate the different ways societies have resolved issues in the past and develop skills that enable them to become responsible and active citizens. The History and Political Thought sub major requires students to select two of four compulsory units which introduce the student to historical periods from the Ancient World to the 20th century, culminating in a capstone unit that discusses the development of historical methodology from ancient times to the present. The remaining two units can be selected from a pool that encompass political thought and historical developments across time and space, enabling students to select fields of particular interest.

Location

Campus	Mode
Bankstown Campus	Internal
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must successfully complete four units (40 credit points) as follows

Complete two of the compulsory units

102766.1	Historical Methodologies
102814.1	History of the Ancient World
102000.1	Modern European History and Politics
102768.1	When Worlds Collide: European Empires and the World, c.1600-1950

Students may also complete up to 2 units from the following unit pools.

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
101967.1	Cultural History of Books and Reading
100001.3	Keeping the Past
101797.2	Political Terror
100882.3	Politics of Sex and Gender
101992.1	Religion and the Emergence of Modern Politics
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
102835.1	Catastrophe: The Environmental History of the Ancient 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
102734.1	History of Religion
101991.1	History of Sexuality
100507.4	History of Modern China to 1949
102184.1	History of Muslim Civilisations and Ideas
102842.1	History of the People's Republic of China
101988.1	Human Rights and Culture
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
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
101913.2	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?

Equivalent Specialisation Unit

The Specialisation unit listed below count towards completion of this major for students who passed this unit in 2021 or earlier.

63178 - Social and Political Developments in Contemporary China

Sub-major - Global Sustainability**SM2054.1**

The Global Sustainability sub-major provides a unique, signature learning experience for students involving local and global partners committed to sustainable development. The sub-major explores the interrelationship between humans and the natural and built environment from multiple paradigms. Students will investigate the grand challenge of achieving a sustainable society and in the process become future thinkers and innovators. Global Sustainability involves the choice of three sustainability units from five different schools and a social action internship which can be based regionally or internationally. The sub-major is recognised by and cobranded with the United Nations University's Regional Centres of Expertise on Education for Sustainable Development.

Location

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

Specialisation Structure

The sub major requires students to complete 40 credit points in an interdisciplinary program.

Students must complete the core unit

102212.3 Internship and Community Engagement

And

Choose 3 of the following 5 units

301212.2	Science of the Anthropocene
200815.2	Globalisation and Sustainability
101663.2	Education for Sustainability
101569.3	Sustainable Futures
102417.1	Philosophy and Environment

Please note that students may be required to attend a campus that is not their home campus.

Students completing the sub-major with 60 hours of a social action project in their Internship and an online sustainability bootcamp will receive a Global Sustainability Graduate Award recognised by the Regional Centre of Expertise (RCE) on Education for Sustainable Development, a global network acknowledged by the

United Nation's University Institute for the Advanced Study of Sustainability (UNU-IAS).

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

300103.5	Data Structures and Algorithms
300165.5	Systems Administration Programming
300167.5	Systems Programming 1
300149.3	Operating Systems

Please note: 300149 Operating Systems is replaced by 300698 Operating Systems Programming.

300698.5	Operating Systems Programming
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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

300672.3	Mathematics 1A
300673.3	Mathematics 1B

Choose two of

200028.4	Advanced Calculus
200030.5	Differential Equations
200027.4	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

300093.8	Computer Graphics
300491.3	Games Technology
300580.4	Programming Fundamentals
300862.3	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

300580.4	Programming Fundamentals
300961.4	Social Computing
300958.4	Social Web Analytics

Choose one of

200263.6	Biometry
300700.7	Statistical Decision Making
200032.7	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

300136.5	I.T. Support Practicum
300138.4	LAN Workshop
300150.4	PC Workshop

And choose one of

200083.2	Marketing Principles
300167.5	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

300565.3	Computer Networking
300095.6	Computer Networks and Internets

And choose two of

300575.3	Networked Systems Design
300143.5	Network Security
300166.4	Systems and Network Management
300952.3	Wireless and Mobile Networks

300569.3	Computer Security
301124.3	Ethical Hacking Principles and Practice

Please note unit 300597 - Parallel and Distributed Computing will no longer be available from 2018. Students may take unit 300569 Computer Security or 301124 Ethical Hacking principles and Practice instead

Replaced Units

The units listed below count towards completion of this Sub-major for students who passed these units in 2018 or earlier.

300957 - Parallel and Distributed Computing

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

300111.3	Developing Web Applications with XML
300130.5	Internet Programming
300582.6	Technologies for Web Applications
300583.4	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 (Advanced), 3506 B Computer Science, 3634 B Computer Science (Advanced), 3687 B Information Systems or 3688 B Information Systems (Advanced).

Location

Campus	Mode
Campbelltown Campus	Internal
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Student must complete 40 credit points as follows

300570.4	Human-Computer Interaction
300960.5	Mobile Applications Development
300976.2	Technologies for Mobile Applications
300952.3	Wireless and Mobile Networks

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

300128.6	Information Security
300143.5	Network Security
300698.5	Operating Systems Programming
300167.5	Systems Programming 1

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

Campus

Penrith Campus

Mode

Internal

Specialisation Structure

Students must complete 40 credit points as follows

300916.4	Astroinformatics
300672.3	Mathematics 1A
300580.4	Programming Fundamentals
300966.3	The Cosmos in Perspective: Information and Life

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

200263.6	Biometry
300700.7	Statistical Decision Making
200032.7	Statistics for Business

Choose three of

301035.2	Environmental Informatics
301033.2	Introduction to Data Science
301032.2	Making Sense of Data
301034.2	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.

Campus

Penrith Campus

Mode

Internal

Location

Campus	Mode
Penrith Campus	Internal

Specialisation Structure

Students must complete the following four units

300950.3	Fundamentals of Medical Concepts and Terminology
300955.3	Healthcare Data Environments
300956.2	Healthcare Software and Systems
300566.3	Introduction to Health Informatics

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

300565.3	Computer Networking
300095.6	Computer Networks and Internets

And choose two of

300569.3	Computer Security
301124.3	Ethical Hacking Principles and Practice
300575.3	Networked Systems Design
300143.5	Network Security
300166.4	Systems and Network Management
300952.3	Wireless and Mobile Networks

Sub-major - Advanced Game Programming**SM3096.1****Location**

Campus	Mode
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must successfully complete 40 credit points as follows

300104.5	Database Design and Development
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Choose one of

300103.5	Data Structures and Algorithms
300672.3	Mathematics 1A

Choose one of

300096.7	Computer Organisation
300673.3	Mathematics 1B

Choose one of

301174.2	Artificial Intelligence
300960.5	Mobile Applications Development

Sub-major - Advanced Game Design**SM3097.1****Location**

Campus	Mode
Parramatta Campus - Victoria Road	Internal
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

301204.3	Cloud Computing Architecture
301203.2	Introduction to Cloud Computing

And choose two units from the following

300569.3	Computer Security
300115.4	Distributed Systems and Programming
301124.3	Ethical Hacking Principles and Practice
300143.5	Network Security

Sub-major - Advanced Game Design**SM3102.1****Specialisation Structure**

Students must successfully complete 40 credit points as follows

101927.1	Foundations of Media Arts and Production
101921.1	Visual Storytelling
102272.3	Interactive Design: Games
301074.3	Graphics 1: 2D and 3D Industrial Design Communication

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 in a Pathway to Teaching degree.

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
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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
101259.3	Learning and Creativity
102209.1	Scientific Discovery and Invention
102796.1	Teachers as Change Makers

Level 3 units

101661.2	Education in a Cosmopolitan Society
101623.1	Ethical Futures
102207.1	The Brain and Learning

The units listed below count towards completion of this sub-major for students who passed these units in 2020 or earlier.

101874	- Experiential Learning in Communities (ELC)
102210	- Australia-Asia Education

SCHOOL OF ENGINEERING

Bachelor of Engineering (Honours)

3740.3

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 Spring 2019 or later.

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

The Bachelor of Engineering (Honours) is a four-year fulltime undergraduate engineering course. The course is designed to meet Engineers Australia professional accreditation requirements – Competency Stage 1 Professional Engineers and Australian Quality Frameworks (AQF) Level 8.

Students have opportunities to choose a discipline area by selecting a key program in Civil, Construction, Electrical, Mechanical, and Robotic & Mechatronic Engineering. In addition, students can specialise by selecting one sub-major from recommended specialisation elective unit sets that will complement their chosen discipline. Meanwhile free elective units help students broaden their learning by developing knowledge and skills from other disciplines and professional fields for future.

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

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 for all five specialisations (Civil, Construction, Electrical, Mechanical and Robotics & Mechatronics) and Sydney City Campuses for three specialisations (Civil, Electrical and Mechanical only). 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

Dr Pan Hu is the Academic Course Advisor for Key Programs in Civil and Construction at Penrith campus.

Dr Won Hee Kang is the Academic Course Advisor for Key Programs in Civil and Construction at Parramatta South campus.

Dr Qi Cheng is the Academic Course Advisor for Key Programs in Electrical at Parramatta campus.

Dr Gaetano Gargiulo is the Academic Course Advisor for Key Programs in Electrical at Penrith campus.

Dr Leo Zhang is the Academic Course Advisor for Key Programs in Mechanical and Mechatronic at Parramatta and Penrith campus.

Dr Ankit Agarwal is the Academic Course Advisor for Key Programs in Civil at Sydney City campus.

Mr Peter Lendrum is the Academic Course Advisor for Key Programs in Electrical and Mechanical at Sydney City campus.

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.

300743.4 Mathematics for Engineers Preliminary

Or

200237.5 Mathematics for Engineers 1
300027.3 Engineering Computing
300963.2 Engineering Physics
300964.2 Introduction to Engineering Practice

Spring session

200238.3 Mathematics for Engineers 2
300463.3 Fundamentals of Mechanics

Students wishing to select Civil, Construction or Mechanical Key Program choose

300965.2 Engineering Materials

And one elective

Students wishing to select Electrical or Robotics and Mechatronics Key Program choose

300021.3 Electrical Fundamentals

And one elective

Students doing General Engineering via UAC

Students will do all eight common fundamental units in the first year and then one of two units - 300021 Electrical Fundamentals and 300965 Engineering Materials will be counted as a free elective unit when they choose the specialisation at the end of the first year.

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

KT3159.1	Civil
KT3161.1	Electrical
KT3162.1	Mechanical
KT3163.1	Robotics and Mechatronics
KT3160.1	Construction

From 2020, KT3160 will be replaced by KT3166 Construction

KT3166.1 Construction

Sydney City campus

KT3159.1	Civil
KT3161.1	Electrical
KT3162.1	Mechanical

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 Indigenous Studies as listed above and Sustainability.

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

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
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

Dr Pan Hu is the Academic Course Advisor for Key Programs in Civil and Construction at Penrith and Sydney City Campuses.

Dr Won Hee Kang is the Academic Course Advisor for Key Programs in Civil and Construction at Parramatta South Campus.

Dr Qi Cheng is the Academic Course Advisor for Key Programs in Electrical at Parramatta, Penrith and Sydney City Campuses.

Dr Leo Zhang is the Academic Course Advisor for Key Programs in Mechanical and Mechatronic at Parramatta, Penrith and Sydney City Campuses.

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

200237.5	Mathematics for Engineers 1
300027.3	Engineering Computing
300963.2	Engineering Physics
300964.2	Introduction to Engineering Practice

Spring session

200238.3	Mathematics for Engineers 2
300021.3	Electrical Fundamentals
300463.3	Fundamentals of Mechanics
300965.2	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

3728.3

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 2020 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 the Bachelor of Engineering that you must meet in order to successfully

complete this course. Make sure you read and understand the requirements for your course online.

The School of Business has developed a set of Inherent Requirements for the discipline of Accounting. These requirements are adopted for all School of Business courses. Make sure you read and understand the requirements for your course online.

Admission

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

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.

KT3167.1 Civil

KT3168.1	Construction
KT3169.1	Electrical
KT3170.1	Mechanical
KT3171.1	Robotics and Mechatronics

Business Component

Core units (compulsory 40 credit points)

200909.2	Enterprise Law
200910.2	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 B Bus 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.

Accreditation

The program has been designed to meet Engineers Australia professional accreditation requirements Competency Stage 1 Engineering Technologist and Australian Quality Frameworks (AQF) Level 7.

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

Dr Pan Hu is the Academic Course Advisor for Key Programs in Civil and Construction at Penrith and Sydney City Campuses.

Dr Won Hee Kang is the Academic Course Advisor for Key Programs in Civil and Construction at Parramatta South Campus.

Dr Dr Qi Cheng is the Academic Course Advisor for Key Programs in Electrical at Parramatta Campus.

Dr Gaetano Gargiulo is the Academic Course Advisor for Key Programs in Electrical at Penrith and Sydney City Campuses.

Dr Hui Xie is the Academic Course Advisor for Key Programs in Mechanical and Mechatronics at Parramatta campus

Dr Leo Zhang is the Academic Course Advisor for Key Programs in Mechanical and Mechatronic at Penrith and Sydney City Campuses.

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

300027.3	Engineering Computing
300963.2	Engineering Physics
300964.2	Introduction to Engineering Practice

Choose one of

300743.4	Mathematics for Engineers Preliminary
200237.5	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

300021.3	Electrical Fundamentals
300463.3	Fundamentals of Mechanics
300965.2	Engineering Materials

Choose one of

200237.5	Mathematics for Engineers 1
200238.3	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

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.

The early exit College Diploma consists of 100 credit points which includes three College Preparatory units.

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

First Term of Study

700169.2	Tertiary Study Skills in Engineering (WSTC Prep)
700146.4	Mathematics 2 (WSTC Prep)
700145.3	Foundation Physics 2 (WSTC Prep)
700148.3	Introduction to Engineering Practice (WSTC)
700018.3	Engineering Computing (WSTC)

Second Term of Study

700100.5	Mathematics for Engineers Preliminary (WSTC)
700152.5	Engineering Materials (WSTC)
700151.4	Engineering Physics (WSTC)

Third Term of Study

700024.4	Electrical Fundamentals (WSTC)
700023.4	Fundamentals of Mechanics (WSTC)
700019.8	Mathematics for Engineers 1 (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

Associate Degree in Engineering

7022.4

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 2021 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 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 (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

Four years part-time

Location

Campus Attendance Mode

Online Part Time Multi Modal

Accreditation

The course has been designed in accordance to Engineers Australia standards and re-accreditation at the level of Engineering Associate will be sought from Engineers Australia.

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 (3) 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

Year 1

Quarter 1

700112.3 Fundamentals for Engineering Studies (WSTC AssocD)

Quarter 2

700106.3 Engineering Computing (WSTC AssocD)

Quarter 3

700103.3 Mathematics for Engineers Preliminary (WSTC AssocD)

Quarter 4

700147.3 Engineering Materials (WSTC AssocD)

Year 2

Quarter 1

700101.3 Mathematics for Engineers 1 (WSTC AssocD)

Quarter 2

700153.3 Engineering Physics (WSTC AssocD)

Quarter 3

700104.3 Electrical Fundamentals (WSTC AssocD)

Quarter 4

700113.3 Fundamentals of Mechanics (WSTC AssocD)

Year 3

Quarter 1

700149.3 Introduction to Engineering Practice (WSTC AssocD)

Quarter 2

700114.3 Introduction to Engineering Business Management (WSTC AssocD)

Quarter 3

700307.1 Management Practices for Engineer Associates (WSTC AssocD)

Quarter 4

Alternate unit

Year 4**Quarter 1**

700311.1 Industrial Experience (Associate Engineer) (WSTC AssocD)

Quarter 2

Alternate unit

Quarter 3

700110.3 Engineering Project (WSTC AssocD)

Quarter 4

Alternate unit

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
KT7003.1	Robotics and Mechatronics
KT7004.1	Mechanical

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

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

700024.4	Electrical Fundamentals (WSTC)
700018.3	Engineering Computing (WSTC)
700152.5	Engineering Materials (WSTC)
700151.4	Engineering Physics (WSTC)
700023.4	Fundamentals of Mechanics (WSTC)
700148.3	Introduction to Engineering Practice (WSTC)
700019.8	Mathematics for Engineers 1 (WSTC)
700100.5	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 will articulate into Bachelor of Engineering Science 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
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

Qualification for this award requires the successful completion of 140 credit points which include the units listed in the pathways below.

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
Penrith Campus	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

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

Students must pass the following units

700024.4	Electrical Fundamentals (WSTC)
700018.3	Engineering Computing (WSTC)
700152.5	Engineering Materials (WSTC)
700151.4	Engineering Physics (WSTC)
700023.4	Fundamentals of Mechanics (WSTC)
700148.3	Introduction to Engineering Practice (WSTC)
700019.8	Mathematics for Engineers 1 (WSTC)
700100.5	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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Specialisations

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)
- 700148.3** Introduction to Engineering Practice (WSTC)
- 700018.3** Engineering Computing (WSTC)

Term 3 of study

- 700100.5** Mathematics for Engineers Preliminary (WSTC)
- 700152.5** Engineering Materials (WSTC)
- 700151.4** Engineering Physics (WSTC)

Term 4 of study

- 700024.4** Electrical Fundamentals (WSTC)
- 700023.4** Fundamentals of Mechanics (WSTC)
- 700019.8** 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)
- 700148.3** Introduction to Engineering Practice (WSTC)
- 700018.3** Engineering Computing (WSTC)

Term 3 of study

- 700100.5** Mathematics for Engineers Preliminary (WSTC)
- 700152.5** Engineering Materials (WSTC)
- 700151.4** Engineering Physics (WSTC)

Term 4 of study

- 700024.4** Electrical Fundamentals (WSTC)
- 700023.4** Fundamentals of Mechanics (WSTC)
- 700019.8** 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)
700148.3	Introduction to Engineering Practice (WSTC)
700018.3	Engineering Computing (WSTC)

Term 3 of study

700100.5	Mathematics for Engineers Preliminary (WSTC)
700152.5	Engineering Materials (WSTC)
700151.4	Engineering Physics (WSTC)

Term 4 of study

700024.4	Electrical Fundamentals (WSTC)
700023.4	Fundamentals of Mechanics (WSTC)
700019.8	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**

300738.4	Surveying for Engineers
300040.3	Mechanics of Materials
300762.3	Fluid Mechanics
300985.3	Soil Mechanics

Spring session

300984.2	Pavement Materials and Design
300733.3	Introduction to Structural Engineering
300737.5	Environmental Engineering
300765.3	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**

300732.3	Structural Analysis
301329.1	Surface Water Hydrology
300736.3	Concrete Structures (UG)
300666.3	Advanced Engineering Topic 1

Spring session

300730.3	Steel Structures
301001.2	Engineering Geomechanics
300667.3	Advanced Engineering Topic 2
300488.5	Numerical Methods in Engineering

Industrial Experience

300741.3	Industrial Experience (Engineering)
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Year 4**Autumn session**

300971.2	Engineering Project 1
300969.2	Advanced Engineering Thesis 1: Preliminary Investigations

And one alternate unit

And one elective unit

* Elective units must be Level 2 or higher

Spring session

300972.2	Engineering Project 2
300982.3	Transportation Engineering
300970.2	Advanced Engineering Thesis 2: Detailed Investigations

And one alternate unit

Alternate Units

300986.2	Applied Mechanics
300987.2	Composite Structures
300988.2	Highway Infrastructure
301397.1	Hydrogeology
300990.2	Pile Foundations
300991.2	Statistical Hydrology
300798.3	Sustainability and Risk Engineering
300739.3	Timber Structures (UG)
300994.2	Waste Management
300992.2	Water and Wastewater Treatment
300993.2	Water Resource Engineering

Optional Electives

301158.2	Modern Construction Enterprises
301159.2	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.

301089.2	Special Technical Project
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Please note; The units listed below count towards completion of the Key Program for students who may have passed these units in 2020 or earlier.

300983 Surface Water Hydrology
300989 Hydrogeology (Alternate unit)

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

300005.3	Circuit Theory
300025.4	Electronics
300057.6	Signals and Systems
300018.3	Digital Systems 1

Spring session

300076.4	Microprocessor Systems
300481.3	Engineering Electromagnetics
300052.4	Power and Machines
300009.4	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

300007.3	Communication Systems
300071.3	Electrical Machines 1
300666.3	Advanced Engineering Topic 1

And one elective unit*

*Elective units must be level 2 or higher

Spring session

300771.2	Power Systems
300069.5	Digital Signal Processing
300667.3	Advanced Engineering Topic 2
300070.5	Electrical Drives

Industrial Experience

300741.3 Industrial Experience (Engineering)

Year 4

Autumn session

300971.2	Engineering Project 1
300772.2	Power Electronics
300969.2	Advanced Engineering Thesis 1: Preliminary Investigations

And one alternate unit

Spring session

300972.2	Engineering Project 2
300075.6	Instrumentation and Measurement
300970.2	Advanced Engineering Thesis 2: Detailed Investigations

And one alternate unit

Alternate Units

300997.2	Data Communications
300019.5	Digital Systems 2
300029.4	Engineering Visualization
300995.2	Power Quality
300489.3	Radio and Satellite Communication
300996.2	Smart Grids and Distributed Generation
300998.2	Sustainable Energy Systems
300065.6	Wireless Communications

Optional Electives

301158.2	Modern Construction Enterprises
301159.2	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.

301089.2	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**

300738.4	Surveying for Engineers
300040.3	Mechanics of Materials
300762.3	Fluid Mechanics
300985.3	Soil Mechanics

Spring session

300984.2	Pavement Materials and Design
300733.3	Introduction to Structural Engineering
300737.5	Environmental Engineering
300765.3	Hydraulics

Industrial Experience

300741.3	Industrial Experience (Engineering)
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Year 3**Autumn session**

300732.3	Structural Analysis
300736.3	Concrete Structures (UG)
300967.2	Engineering Science Project 1
301329.1	Surface Water Hydrology

Spring session

300730.3	Steel Structures
300968.2	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 301329 Surface Water Hydrology in Year 3 Autumn.

300982 - Transportation Engineering

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.

301089.2	Special Technical Project
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Replaced Units

The units listed below count towards completion of this specialisation for students who passed these units in 2019 or earlier.

300983 - Surface Water Hydrology

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**

300005.3	Circuit Theory
300025.4	Electronics
300057.6	Signals and Systems
300018.3	Digital Systems 1

Spring session

300076.4	Microprocessor Systems
300481.3	Engineering Electromagnetics
300052.4	Power and Machines
300009.4	Control Systems

Industrial Experience

300741.3	Industrial Experience (Engineering)
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Year 3**Autumn session**

300007.3	Communication Systems
300071.3	Electrical Machines 1
300967.2	Engineering Science Project 1

And one elective unit

*Elective units must be level 2 or higher

Spring session

300771.2	Power Systems
300069.5	Digital Signal Processing
300968.2	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.

301089.2 Special Technical Project

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

300035.4	Kinematics and Kinetics of Machines
300040.3	Mechanics of Materials
300005.3	Circuit Theory
300018.3	Digital Systems 1

Spring session

300480.3	Dynamics of Mechanical Systems
300735.3	Automated Manufacturing
300052.4	Power and Machines
300044.3	Microcontrollers and PLCs

Industrial Experience

300741.3	Industrial Experience (Engineering)
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Year 3

Autumn session

300764.2	Mechanical Design
300763.2	Advanced Dynamics
300056.5	Robotics
300967.2	Engineering Science Project 1

Spring session

300043.5	Mobile Robotics
300968.2	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.

301089.2 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

300035.4	Kinematics and Kinetics of Machines
300040.3	Mechanics of Materials
300762.3	Fluid Mechanics
301290.1	Design Graphics: Communication for Manufacture

Spring session

300480.3	Dynamics of Mechanical Systems
300735.3	Automated Manufacturing
300760.3	Thermodynamics and Heat Transfer
300761.2	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**

300764.2	Mechanical Design
300763.2	Advanced Dynamics
300666.3	Advanced Engineering Topic 1

And one elective unit

* Elective units must be level 2 or higher

Spring session

300759.3	Thermal and Fluid Engineering
300488.5	Numerical Methods in Engineering
300667.3	Advanced Engineering Topic 2
300487.4	Mechatronic Design

Industrial Experience

300741.3	Industrial Experience (Engineering)
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Year 4**Autumn session**

300971.2	Engineering Project 1
300056.5	Robotics
300969.2	Advanced Engineering Thesis 1: Preliminary Investigations

And one alternate unit

Spring session

300972.2	Engineering Project 2
300970.2	Advanced Engineering Thesis 2: Detailed Investigations
301000.3	Computer Aided Engineering

And one alternate unit

Alternate Units

300999.2	Computational Fluid Dynamics
301287.1	Design Graphics: Engineering Documentation
301091.2	Graphics 4: Kinetic Narratives
300570.4	Human-Computer Interaction
300044.3	Microcontrollers and PLCs
300043.5	Mobile Robotics
301081.3	Sustainable Design 2: Product Service Systems

Optional Electives

301158.2	Modern Construction Enterprises
301159.2	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.

301089.2	Special Technical Project
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Please note; The units listed below count towards completion of the Key Program for students who may have passed these units in 2020 or earlier.

301076 Graphics 2: Visual Simulation

301079 Graphics 3: 3D Engineering Specifications and Visualisation

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**

300035.4	Kinematics and Kinetics of Machines
300040.3	Mechanics of Materials
300005.3	Circuit Theory
300018.3	Digital Systems 1

Spring session

300480.3	Dynamics of Mechanical Systems
300735.3	Automated Manufacturing
300052.4	Power and Machines
300044.3	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

300764.2	Mechanical Design
300763.2	Advanced Dynamics
300025.4	Electronics
300666.3	Advanced Engineering Topic 1

Spring session

300043.5	Mobile Robotics
300667.3	Advanced Engineering Topic 2
300487.4	Mechatronic Design

And one elective unit

* Elective units must be level 2 or higher

Industrial Experience

300741.3	Industrial Experience (Engineering)
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Year 4

Autumn session

300971.2	Engineering Project 1
300056.5	Robotics
300969.2	Advanced Engineering Thesis 1: Preliminary Investigations

And one alternate unit

Spring session

300972.2	Engineering Project 2
300075.6	Instrumentation and Measurement
300970.2	Advanced Engineering Thesis 2: Detailed Investigations

And one alternate unit

Alternate Units

300999.2	Computational Fluid Dynamics
301000.3	Computer Aided Engineering
301290.1	Design Graphics: Communication for Manufacture
301287.1	Design Graphics: Engineering Documentation
300029.4	Engineering Visualization
300762.3	Fluid Mechanics
300759.3	Thermal and Fluid Engineering
300760.3	Thermodynamics and Heat Transfer

Optional Electives

301158.2	Modern Construction Enterprises
301159.2	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.

301089.2 Special Technical Project

Please note; The units listed below count towards completion of the Key Program for students who may have passed these units in 2020 or earlier.

301076 Graphics 2: Visual Simulation

301079 Graphics 3: 3D Engineering Specifications and Visualisation

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

300035.4	Kinematics and Kinetics of Machines
300040.3	Mechanics of Materials
300762.3	Fluid Mechanics
301079.2	Graphics 3: 3D Engineering Specifications and Visualisation

From 2020 301079 is replaced by 301290 Design Graphics: Communication for Manufacture. Students are advised to select the unit below.

301290.1	Design Graphics: Communication for Manufacture
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Spring session

300480.3	Dynamics of Mechanical Systems
300735.3	Automated Manufacturing

300760.3 Thermodynamics and Heat Transfer
300761.2 Advanced Mechanics of Materials

Industrial Experience

300741.3 Industrial Experience (Engineering)

Year 3

Autumn session

300764.2 Mechanical Design
300763.2 Advanced Dynamics
300967.2 Engineering Science Project 1

And one elective unit

*Elective units must be level 2 or higher

Spring session

300759.3 Thermal and Fluid Engineering
300488.5 Numerical Methods in Engineering
300968.2 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.

301089.2 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

300738.4 Surveying for Engineers
300040.3 Mechanics of Materials
301208.2 Building Measurement

300985.3 Soil Mechanics

Spring session

300984.2 Pavement Materials and Design
300733.3 Introduction to Structural Engineering
301207.2 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

300732.3 Structural Analysis
300728.4 Construction Planning
300736.3 Concrete Structures (UG)
300666.3 Advanced Engineering Topic 1

Spring session

300730.3 Steel Structures
300727.3 Project Management
301001.2 Engineering Geomechanics
300667.3 Advanced Engineering Topic 2

Industrial Experience

300741.3 Industrial Experience (Engineering)

Year 4

Autumn session

300971.2 Engineering Project 1
300969.2 Advanced Engineering Thesis 1: Preliminary Investigations
200471.5 Construction Technology 5 (Envelope)

And one alternate unit

Spring session

300972.2 Engineering Project 2
300970.2 Advanced Engineering Thesis 2: Detailed Investigations
300725.4 Construction Technology 6 (Services)

And one alternate unit

Alternate Units

300986.2 Applied Mechanics
300987.2 Composite Structures
300988.2 Highway Infrastructure
300990.2 Pile Foundations
300739.3 Timber Structures (UG)

Optional Electives

301158.2 Modern Construction Enterprises
301159.2 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.

301089.2 Special Technical Project

Replaced Units

The units listed below count towards completion of this key program for students who passed these units in 2019 or earlier.

200486 - Quantity Surveying 1

200468 - Estimating 1

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

300738.4	Surveying for Engineers
300040.3	Mechanics of Materials
301208.2	Building Measurement
300985.3	Soil Mechanics

Spring session

300984.2	Pavement Materials and Design
300733.3	Introduction to Structural Engineering
301207.2	Building Estimates and Tendering

And one elective unit

*Elective units must be Level 2 or higher

Industrial Experience

300741.3 Industrial Experience (Engineering)

Year 3

Autumn session

300732.3 Structural Analysis

300728.4	Construction Planning
300967.2	Engineering Science Project 1
200471.5	Construction Technology 5 (Envelope)

Spring session

300730.3	Steel Structures
300727.3	Project Management
300968.2	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.

301089.2 Special Technical Project

Replaced Units

The units listed below count towards completion of this key program for students who passed these units in 2019 or earlier.

200486 - Quantity Surveying 1

200468 - Estimating 1

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

300738.4	Surveying for Engineers
300040.3	Mechanics of Materials
300762.3	Fluid Mechanics
300985.3	Soil Mechanics

Spring session

300984.2 Pavement Materials and Design

300733.3 Introduction to Structural Engineering
300737.5 Environmental Engineering
300765.3 Hydraulics

Industrial Experience

300741.3 Industrial Experience (Engineering)

Year 3

Autumn session

300732.3 Structural Analysis
300736.3 Concrete Structures (UG)
300967.2 Engineering Science Project 1
301329.1 Surface Water Hydrology

Spring session

300730.3 Steel Structures
300968.2 Engineering Science Project 2
200238.3 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.

300982.3 Transportation Engineering

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.

301089.2 Special Technical Project

Replaced Units

The units listed below count towards completion of this specialisation for students who passed these units in 2020 or earlier.

300983 - Surface Water Hydrology

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

300738.4 Surveying for Engineers
300040.3 Mechanics of Materials
301208.2 Building Measurement
300985.3 Soil Mechanics

Spring session

300984.2 Pavement Materials and Design
300733.3 Introduction to Structural Engineering
301207.2 Building Estimates and Tendering
200238.3 Mathematics for Engineers 2

Industrial Experience

300741.3 Industrial Experience (Engineering)

Year 3

Autumn session

300732.3 Structural Analysis
300728.4 Construction Planning
300967.2 Engineering Science Project 1
200471.5 Construction Technology 5 (Envelope)

Spring session

300730.3 Steel Structures
300727.3 Project Management
300968.2 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.

301089.2 Special Technical Project

Replaced Units

The units listed below count towards completion of this key program for students who passed these units in 2019 or earlier.

200486 - Quantity Surveying 1

200468 - Estimating 1

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

300005.3	Circuit Theory
300025.4	Electronics
300057.6	Signals and Systems
300018.3	Digital Systems 1

Spring session

300076.4	Microprocessor Systems
300481.3	Engineering Electromagnetics
300052.4	Power and Machines
300009.4	Control Systems

Industrial Experience

300741.3	Industrial Experience (Engineering)
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Year 3

Autumn session

300007.3	Communication Systems
300071.3	Electrical Machines 1
300967.2	Engineering Science Project 1
200238.3	Mathematics for Engineers 2

Spring session

300771.2	Power Systems
300069.5	Digital Signal Processing
300968.2	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.

301089.2	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

300035.4	Kinematics and Kinetics of Machines
300040.3	Mechanics of Materials
300762.3	Fluid Mechanics
200238.3	Mathematics for Engineers 2

Spring session

300480.3	Dynamics of Mechanical Systems
300735.3	Automated Manufacturing
300760.3	Thermodynamics and Heat Transfer
300761.2	Advanced Mechanics of Materials

Industrial Experience

300741.3	Industrial Experience (Engineering)
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Year 3

Autumn session

300764.2	Mechanical Design
300763.2	Advanced Dynamics
300967.2	Engineering Science Project 1

And one elective unit

*Elective units must be level 2 or higher

Spring session

300759.3	Thermal and Fluid Engineering
300488.5	Numerical Methods in Engineering
300968.2	Engineering Science Project 2
301290.1	Design Graphics: Communication for Manufacture

Replaced Units

The units listed below count towards completion of this specialisation for students who passed these units in 2019 or earlier.

301079 - 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.

301089.2 Special Technical Project

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

300035.4	Kinematics and Kinetics of Machines
300040.3	Mechanics of Materials
300005.3	Circuit Theory
300018.3	Digital Systems 1

Spring session

300480.3	Dynamics of Mechanical Systems
300735.3	Automated Manufacturing
300052.4	Power and Machines
300044.3	Microcontrollers and PLCs

Industrial Experience

300741.3 Industrial Experience (Engineering)

Year 3

Autumn session

300764.2	Mechanical Design
300763.2	Advanced Dynamics

300056.5	Robotics
300967.2	Engineering Science Project 1

Spring session

300043.5	Mobile Robotics
300968.2	Engineering Science Project 2
200238.3	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.

301089.2 Special Technical Project

Key Program - Civil

KT3159.1

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

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

Full-time Autumn Intake

*** 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.

Year 1

Autumn

300743.4 Mathematics for Engineers Preliminary

Or

200237.5 Mathematics for Engineers 1
300027.3 Engineering Computing
300963.2 Engineering Physics
300964.2 Introduction to Engineering Practice

Spring

200238.3 Mathematics for Engineers 2
300463.3 Fundamentals of Mechanics
300965.2 Engineering Materials

And one elective

Year 2

Autumn

300738.4 Surveying for Engineers
300040.3 Mechanics of Materials
300762.3 Fluid Mechanics
300985.3 Soil Mechanics

Spring

300984.2 Pavement Materials and Design
300733.3 Introduction to Structural Engineering
300737.5 Environmental Engineering
300765.3 Hydraulics

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

Year 3

Autumn

300732.3 Structural Analysis
301329.1 Surface Water Hydrology
300736.3 Concrete Structures (UG)

Specialisation Alternate unit

Spring

300730.3 Steel Structures
301001.2 Engineering Geomechanics
300488.5 Numerical Methods in Engineering

Specialisation Alternate unit

Industrial Experience

300741.3 Industrial Experience (Engineering)

Year 4

Autumn

301245.2 Final Year Project 1 (UG Engineering)

Specialisation Alternate unit

And two electives

*Elective units must be level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary unit)

Spring

301246.2 Final Year Project 2 (UG Engineering)
300798.3 Sustainability and Risk Engineering

Specialisation Alternate unit

And one elective

*Elective units must be level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary unit)

Specialisation Alternate Units

Alternate units may be used to complete one of the Specialisation sub-majors listed below.

300986.2 Applied Mechanics
300987.2 Composite Structures
300988.2 Highway Infrastructure
301397.1 Hydrogeology
300990.2 Pile Foundations
300982.3 Transportation Engineering
300739.3 Timber Structures (UG)
300991.2 Statistical Hydrology
300994.2 Waste Management
300992.2 Water and Wastewater Treatment
300993.2 Water Resource Engineering

Specialisation Sub-majors

SM3065.1 Structures
SM3066.1 Geotechnical
SM3067.1 Water and Environment

SM3067 has now been replaced by SM3098. Students are advised to select SM3098

SM3098.1 Water and Environment

Replaced Units

The units listed below count towards completion of the Key Program for students who may have passed these units in 2020 or earlier.

300983 - Surface Water Hydrology (Core unit)

300989 - Hydrogeology (Alternate unit)

Key Program - Construction

KT3160.1

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, residential and commercial buildings.

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

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

Full-time Autumn Intake

*** 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.

Year 1**Autumn**

300743.4 Mathematics for Engineers Preliminary

Or

200237.5 Mathematics for Engineers 1
300027.3 Engineering Computing
300963.2 Engineering Physics
300964.2 Introduction to Engineering Practice

Spring

200238.3 Mathematics for Engineers 2
300463.3 Fundamentals of Mechanics
300965.2 Engineering Materials

And one elective

Year 2**Autumn**

300738.4 Surveying for Engineers
300040.3 Mechanics of Materials
301208.2 Building Measurement
300985.3 Soil Mechanics

Spring

300984.2 Pavement Materials and Design
300733.3 Introduction to Structural Engineering
301207.2 Building Estimates and Tendering

And one elective

*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**

300732.3 Structural Analysis
300728.4 Construction Planning
300736.3 Concrete Structures (UG)

Specialisation Alternate Unit

Spring

300730.3 Steel Structures
300727.3 Project Management
301001.2 Engineering Geomechanics

Specialisation Alternate Unit

Industrial Experience

300741.3 Industrial Experience (Engineering)

Year 4**Autumn**

200471.5 Construction Technology 5 (Envelope)
301245.2 Final Year Project 1 (UG Engineering)

Specialisation Alternate Unit

And one elective

*Elective units must be level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary unit)

Spring

300725.4 Construction Technology 6 (Services)
301246.2 Final Year Project 2 (UG Engineering)

Specialisation Alternate Unit

And one elective

*Elective units must be level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary unit)

Alternate Units

Alternate units may be used to complete one of the Specialisation sub-majors listed below.

300986.2 Applied Mechanics
300987.2 Composite Structures
300988.2 Highway Infrastructure
300990.2 Pile Foundations
300739.3 Timber Structures (UG)
200503.3 Construction Information Systems
300726.3 Estimating 2
200487.4 Quantity Surveying 2
300748.3 Quality and Value Management

Specialisation Sub-majors

SM3065.1	Structures
SM3068.1	Construction Economics

Key Program - Electrical**KT3161.1**

This program includes core subjects from all branches of electrical engineering. Graduates will work in the fields of electronic components, computers, electro-magnetic, 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

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

Full-time Autumn Intake

*** 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.**

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.

Year 1**Autumn**

300743.4 Mathematics for Engineers Preliminary

Or

200237.5 Mathematics for Engineers 1
300027.3 Engineering Computing
300963.2 Engineering Physics
300964.2 Introduction to Engineering Practice

Spring

200238.3 Mathematics for Engineers 2
300463.3 Fundamentals of Mechanics
300021.3 Electrical Fundamentals

And one elective

Year 2**Autumn**

300005.3 Circuit Theory
300025.4 Electronics
300057.6 Signals and Systems
300018.3 Digital Systems 1

Spring

300076.4 Microprocessor Systems
300481.3 Engineering Electromagnetics
300052.4 Power and Machines
300009.4 Control Systems

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

Year 3**Autumn**

300007.3 Communication Systems
300071.3 Electrical Machines 1

Specialisation Alternate Unit
 And one elective

*Elective units must be level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary unit)

Spring

300771.2 Power Systems
300069.5 Digital Signal Processing
300070.5 Electrical Drives

Specialisation Alternate Unit

Industrial Experience

300741.3 Industrial Experience (Engineering)

Year 4**Autumn**

300772.2 Power Electronics
301245.2 Final Year Project 1 (UG Engineering)

Specialisation Alternate Unit

And one elective

*Elective units must be level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary unit)

Spring

300075.6 Instrumentation and Measurement
301246.2 Final Year Project 2 (UG Engineering)

Specialisation Alternate Unit

And one elective

*Elective units must be level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary unit)

Alternate Units

Alternate units may be used to complete one of the Specialisation sub-majors listed below.

401140.2	Biomechanics
301122.2	Biomedical Electronics
301121.2	Biomedical Signals and Data Analysis
300997.2	Data Communications
300019.5	Digital Systems 2
300029.4	Engineering Visualization
300361.4	Introduction to Human Biology
300995.2	Power Quality
300489.3	Radio and Satellite Communication
300996.2	Smart Grids and Distributed Generation
300998.2	Sustainable Energy Systems
300065.6	Wireless Communications

Specialisation Sub-majors

SM3069.1	Telecommunications
SM3070.1	Power Engineering
SM3091.1	Biomedical Engineering

Key Program - Mechanical

KT3162.1

In addition to providing training in conventional mechanical engineering subjects, this program introduces students to concepts around 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

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

Full-time Autumn Intake

*** 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.

Year 1

Autumn

300743.4 Mathematics for Engineers Preliminary

Or

200237.5 Mathematics for Engineers 1
300027.3 Engineering Computing
300963.2 Engineering Physics
300964.2 Introduction to Engineering Practice

Spring

200238.3 Mathematics for Engineers 2
300463.3 Fundamentals of Mechanics
300965.2 Engineering Materials

And one elective

Year 2

Autumn

300035.4 Kinematics and Kinetics of Machines
300040.3 Mechanics of Materials
300762.3 Fluid Mechanics
301287.1 Design Graphics: Engineering Documentation

Spring

300480.3 Dynamics of Mechanical Systems
300735.3 Automated Manufacturing
300760.3 Thermodynamics and Heat Transfer
300761.2 Advanced Mechanics of Materials

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

Year 3

Autumn

300764.2 Mechanical Design
300763.2 Advanced Dynamics

Specialisation Alternate Unit

And one elective

*Elective units must be level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary unit)

Spring

300759.3 Thermal and Fluid Engineering
300488.5 Numerical Methods in Engineering
300487.4 Mechatronic Design

Specialisation Alternate Unit

Industrial Experience

300741.3 Industrial Experience (Engineering)

Year 4

Autumn

300056.5 Robotics
301245.2 Final Year Project 1 (UG Engineering)

Specialisation Alternate Unit

And one elective

*Elective units must be level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary unit)

Spring

301000.3 Computer Aided Engineering
301246.2 Final Year Project 2 (UG Engineering)

Specialisation Alternate Unit

And one elective

*Elective units must be level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary unit)

Alternate Units

Alternate units may be used to complete one of the Specialisation sub-majors listed below.

401140.2 Biomechanics
301122.2 Biomedical Electronics
301121.2 Biomedical Signals and Data Analysis
300999.2 Computational Fluid Dynamics
301290.1 Design Graphics: Communication for Manufacture
301091.2 Graphics 4: Kinetic Narratives
300570.4 Human-Computer Interaction
300361.4 Introduction to Human Biology
300044.3 Microcontrollers and PLCs
300043.5 Mobile Robotics
301081.3 Sustainable Design 2: Product Service Systems

Replaced Units

The units listed below count towards completion of the course (or major) for students who may have passed these units in 2019 or earlier.

301076 - Graphics 2: Visual Simulation

301079 - Graphics 3: 3D Engineering Specifications and Visualisation

Specialisation Sub-majors

SM3072.1 Automation
SM3091.1 Biomedical Engineering
SM3099.1 Computer Aided Design (Mechanical)

Key Program - Robotics and Mechatronics

KT3163.1

The Robotics and Mechatronics 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. Students will have the opportunity to be involved in an extensive and integrated hands-on laboratory program, which is 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 of this 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

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

Full-time Autumn Intake

*** 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.

Year 1

Autumn

300743.4 Mathematics for Engineers Preliminary

Or

200237.5 Mathematics for Engineers 1
300027.3 Engineering Computing
300963.2 Engineering Physics
300964.2 Introduction to Engineering Practice

Spring

200238.3	Mathematics for Engineers 2
300463.3	Fundamentals of Mechanics
300021.3	Electrical Fundamentals

And one elective

Year 2**Autumn**

300035.4	Kinematics and Kinetics of Machines
300040.3	Mechanics of Materials
300005.3	Circuit Theory
300018.3	Digital Systems 1

Spring

300480.3	Dynamics of Mechanical Systems
300735.3	Automated Manufacturing
300052.4	Power and Machines
300044.3	Microcontrollers and PLCs

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

Year 3**Autumn**

300764.2	Mechanical Design
300763.2	Advanced Dynamics
300025.4	Electronics

Specialisation Alternate Unit

Spring

300043.5	Mobile Robotics
300487.4	Mechatronic Design

Specialisation Alternate Unit

And one elective

*Elective units must be level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary unit)

Industrial Experience

300741.3	Industrial Experience (Engineering)
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Year 4**Autumn**

300056.5	Robotics
301245.2	Final Year Project 1 (UG Engineering)

Specialisation Alternate Unit

And one elective

*Elective units must be level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary unit)

Spring

300075.6	Instrumentation and Measurement
301246.2	Final Year Project 2 (UG Engineering)

Specialisation Alternate Unit

And one elective

*Elective units must be level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary unit)

Alternate Units

Alternate units may be used to complete one of the Specialisation sub-majors listed below.

401140.2	Biomechanics
301122.2	Biomedical Electronics
301121.2	Biomedical Signals and Data Analysis
300999.2	Computational Fluid Dynamics
301000.3	Computer Aided Engineering
300029.4	Engineering Visualization
300762.3	Fluid Mechanics
301287.1	Design Graphics: Engineering Documentation
301290.1	Design Graphics: Communication for Manufacture
300361.4	Introduction to Human Biology
300759.3	Thermal and Fluid Engineering
300760.3	Thermodynamics and Heat Transfer

Please note

The units listed below count towards completion of the course (or major) for students who may have passed these units in 2019 or earlier.

301076.2	Graphics 2: Visual Simulation
301079.2	Graphics 3: 3D Engineering Specifications and Visualisation

Specialisation Sub-majors

SM3093.1	Computer Aided Design (Mechatronics)
SM3074.1	Thermal and Fluid Systems
SM3091.1	Biomedical Engineering

Key Program - Construction**KT3166.1**

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, residential and commercial buildings.

Specialisation Structure

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

Full-time Autumn Intake

*** 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.

Year 1

Autumn

300743.4 Mathematics for Engineers Preliminary

Or

200237.5 Mathematics for Engineers 1
300027.3 Engineering Computing
300963.2 Engineering Physics
300964.2 Introduction to Engineering Practice

Spring

200238.3 Mathematics for Engineers 2
300463.3 Fundamentals of Mechanics
300965.2 Engineering Materials

And one elective

Year 2

Autumn

300738.4 Surveying for Engineers
300040.3 Mechanics of Materials
301208.2 Building Measurement
300985.3 Soil Mechanics

Spring

300984.2 Pavement Materials and Design
300733.3 Introduction to Structural Engineering
301207.2 Building Estimates and Tendering

And one elective

*Elective units must be level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary unit)

Year 3

Autumn

300732.3 Structural Analysis
301229.1 Construction Project Management
300736.3 Concrete Structures (UG)

Specialisation Alternate Unit

Spring

300730.3 Steel Structures
301230.1 Construction Scheduling
301001.2 Engineering Geomechanics

Specialisation Alternate Unit

Industrial Experience

300741.3 Industrial Experience (Engineering)

Year 4

Autumn

301231.1 Residential Building Project
301245.2 Final Year Project 1 (UG Engineering)

Specialisation Alternate Unit

And one elective

*Elective units must be level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary unit)

Spring

301222.1 Envelope and Services
301246.2 Final Year Project 2 (UG Engineering)

Specialisation Alternate Unit

And one elective

*Elective units must be level 2 or higher (an exception applies for students completing Mathematics for Engineers Preliminary unit)

Specialisation Alternate Units

Specialisation Alternate Units may be used to complete one of the Specialisation sub-majors listed below.

300986.2 Applied Mechanics
300987.2 Composite Structures
300988.2 Highway Infrastructure
300990.2 Pile Foundations
300739.3 Timber Structures (UG)
200503.3 Construction Information Systems
301234.1 Building Cost Studies
301233.1 Advanced Building Measurement
300748.3 Quality and Value Management

Specialisation Sub-majors

SM3065.1 Structures
SM3100.1 Construction Economics

Key Program - Civil

KT3167.1

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.

Specialisation Structure

Full-time - Autumn Intake

Year 1

Autumn session

200237.5 Mathematics for Engineers 1
300963.2 Engineering Physics

BBus core unit 1
BBus core unit 2

Spring session

200238.3 Mathematics for Engineers 2
300965.2 Engineering Materials

BBus core unit 3
BBus core unit 4

Year 2

Autumn session

300027.3 Engineering Computing

BBus professional unit 1
BBus professional unit 2
BBus major unit 1

Spring session

300021.3 Electrical Fundamentals
300463.3 Fundamentals of Mechanics

BBus major unit 2
BBus major unit 3

Year 3

Autumn session

300738.4 Surveying for Engineers
300040.3 Mechanics of Materials
300762.3 Fluid Mechanics
300985.3 Soil Mechanics

Spring session

300984.2 Pavement Materials and Design
300733.3 Introduction to Structural Engineering
300737.5 Environmental Engineering
300765.3 Hydraulics

Year 4

Autumn session

300732.3 Structural Analysis
300736.3 Concrete Structures (UG)
301329.1 Surface Water Hydrology

BBus major unit 4

Spring session

300730.3 Steel Structures
301001.2 Engineering Geomechanics

BBus major unit 5
BBus major unit 6

Industrial Experience

300741.3 Industrial Experience (Engineering)

Year 5

Autumn session

301245.2 Final Year Project 1 (UG Engineering)

BBus professional unit 3
BBus major unit 7
BBus major unit 8

Spring session

300798.3 Sustainability and Risk Engineering
301246.2 Final Year Project 2 (UG Engineering)
300488.5 Numerical Methods in Engineering

BBus professional unit 4

Replaced Units

The units listed below count towards completion of this specialisation for students who passed these units in 2020 or earlier.

300983 - Surface Water Hydrology

Key Program - Construction

KT3168.1

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.

Specialisation Structure

Full-time - Autumn Intake

Year 1

Autumn session

200237.5 Mathematics for Engineers 1
300963.2 Engineering Physics

BBus core unit 1
BBus core unit 2

Spring session

200238.3 Mathematics for Engineers 2

300965.2 Engineering Materials

BBus core unit 3

BBus core unit 4

Year 2**Autumn session****300027.3** Engineering Computing

BBus professional unit 1

BBus professional unit 2

BBus major unit 1

Spring session**300021.3** Electrical Fundamentals**300463.3** Fundamentals of Mechanics

BBus major unit 2

Bbus major unit 3

Year 3**Autumn session****300738.4** Surveying for Engineers**300040.3** Mechanics of Materials**301208.2** Building Measurement**300985.3** Soil Mechanics**Spring session****300984.2** Pavement Materials and Design**300733.3** Introduction to Structural Engineering**301207.2** Building Estimates and Tendering**301227.1** Non-Residential Building**Year 4****Autumn session****300732.3** Structural Analysis**300736.3** Concrete Structures (UG)**301229.1** Construction Project Management

BBus major unit 4

Spring session**300730.3** Steel Structures**301230.1** Construction Scheduling

BBus major unit 5

BBus major unit 6

Industrial Experience**300741.3** Industrial Experience (Engineering)**Year 5****Autumn session****300798.3** Sustainability and Risk Engineering**301245.2** Final Year Project 1 (UG Engineering)

BBus professional unit 3

BBus major unit 7

Spring session**301001.2** Engineering Geomechanics**301246.2** Final Year Project 2 (UG Engineering)

BBus professional unit 4

BBus major unit 8

Key Program - Electrical**KT3169.1**

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.

Specialisation Structure**Full-time - Autumn Intake****Year 1****Autumn session****200237.5** Mathematics for Engineers 1**300963.2** Engineering Physics

BBus core unit 1

BBus core unit 2

Spring session**200238.3** Mathematics for Engineers 2**300965.2** Engineering Materials

BBus core unit 3

BBus core unit 4

Year 2**Autumn session****300027.3** Engineering Computing

BBus professional unit 1

BBus professional unit 2

BBus major unit 1

Spring session**300021.3** Electrical Fundamentals**300463.3** Fundamentals of Mechanics

BBus major unit 2

Bbus major unit 3

Year 3**Autumn session****300005.3** Circuit Theory

300025.4 Electronics
300057.6 Signals and Systems
300018.3 Digital Systems 1

Spring session

300076.4 Microprocessor Systems
300481.3 Engineering Electromagnetics
300052.4 Power and Machines
300009.4 Control Systems

Year 4

Autumn session

300007.3 Communication Systems
300071.3 Electrical Machines 1

BBus major unit 4
 BBus major unit 5

Spring session

300771.2 Power Systems
300069.5 Digital Signal Processing

BBus major unit 6
 BBus major unit 7

Industrial Experience

300741.3 Industrial Experience (Engineering)

Year 5

Autumn session

300772.2 Power Electronics
301245.2 Final Year Project 1 (UG Engineering)

BBus professional unit 3
 BBus major unit 8

Spring session

300075.6 Instrumentation and Measurement
301246.2 Final Year Project 2 (UG Engineering)
300070.5 Electrical Drives

BBus professional unit 4

Key Program - Mechanical

KT3170.1

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.

Specialisation Structure

Year 1

Autumn session

200237.5 Mathematics for Engineers 1
300963.2 Engineering Physics

BBus core unit 1
 BBus core unit 2

Spring session

200238.3 Mathematics for Engineers 2
300965.2 Engineering Materials

BBus core unit 3
 BBus core unit 4

Year 2

Autumn session

300027.3 Engineering Computing

BBus professional unit 1
 BBus professional unit 2
 BBus major unit 1

Spring session

300021.3 Electrical Fundamentals
300463.3 Fundamentals of Mechanics

BBus major unit 2
 BBus major unit 3

Year 3

Autumn session

300035.4 Kinematics and Kinetics of Machines
300040.3 Mechanics of Materials
300762.3 Fluid Mechanics
301290.1 Design Graphics: Communication for Manufacture

Spring session

300480.3 Dynamics of Mechanical Systems
300735.3 Automated Manufacturing
300760.3 Thermodynamics and Heat Transfer
300761.2 Advanced Mechanics of Materials

Year 4

Autumn session

300764.2 Mechanical Design
300763.2 Advanced Dynamics

BBus major unit 4
 BBus major unit 5

Spring session

300759.3 Thermal and Fluid Engineering
300488.5 Numerical Methods in Engineering

BBus major unit 6

BBus major unit 7

Industrial Experience

300741.3 Industrial Experience (Engineering)

Year 5**Autumn session**

300056.5 Robotics
301245.2 Final Year Project 1 (UG Engineering)

BBus professional unit 3

BBus major unit 8

Spring session

301000.3 Computer Aided Engineering
301246.2 Final Year Project 2 (UG Engineering)
300487.4 Mechatronics Design

BBus professional unit 4

Replaced Units

The units listed below count towards completion of this specialisation for students who passed these units in 2019 or earlier.

301079 - Graphics 3: 3D Engineering Specifications and Visualisation

Key Program - Robotics and Mechatronics**KT3171.1**

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.

Specialisation Structure**Year 1****Autumn session**

200237.5 Mathematics for Engineers 1
300963.2 Engineering Physics

BBus core unit 1

BBus core unit 2

Spring session

200238.3 Mathematics for Engineers 2
300965.2 Engineering Materials

BBus core unit 3

BBus core unit 4

Year 2**Autumn session**

300027.3 Engineering Computing

BBus professional unit 1

BBus professional unit 2

BBus major unit 1

Spring session

300021.3 Electrical Fundamentals
300463.3 Fundamentals of Mechanics

BBus major unit 2

Bbus major unit 3

Year 3**Autumn session**

300035.4 Kinematics and Kinetics of Machines
300040.3 Mechanics of Materials
300005.3 Circuit Theory
300018.3 Digital Systems 1

Spring session

300480.3 Dynamics of Mechanical Systems
300735.3 Automated Manufacturing
300052.4 Power and Machines
300044.3 Microcontrollers and PLCs

Year 4**Autumn session**

300764.2 Mechanical Design
300763.2 Advanced Dynamics
300025.4 Electronics

BBus major unit 4

Spring session

300043.5 Mobile Robotics

BBus major unit 5

BBus major unit 6

BBus major unit 7

Industrial Experience

300741.3 Industrial Experience (Engineering)

Year 5**Autumn session**

300056.5 Robotics
301245.2 Final Year Project 1 (UG Engineering)

BBus major unit 8
 BBus professional unit 3

Spring session

300075.6 Instrumentation and Measurement
301246.2 Final Year Project 2 (UG Engineering)
300487.4 Mechatronic Design

BBus professional unit 4

Key Program - Civil**KT7000.1****Location****Campus Mode**

Online Multi Modal

Specialisation Structure

Choose three of the following units

700111.3 Fluid Mechanics (WSTC AssocD)
700115.3 Introduction to Structural Engineering (WSTC AssocD)
700102.3 Mathematics for Engineers 2 (WSTC AssocD)
700116.3 Mechanics of Materials (WSTC AssocD)
700239.2 Pavement Materials and Design (WSTC AssocD)
700245.2 Soil Mechanics (WSTC AssocD)
700120.3 Surveying for Engineers (WSTC AssocD)

Key Program - Electrical**KT7001.1****Location****Campus Mode**

Online Multi Modal

Specialisation Structure

Choose three of the following units

700243.2 Circuit Theory (WSTC AssocD)
700240.3 Digital Systems 1 (WSTC AssocD)
700242.2 Electronics (WSTC AssocD)
700102.3 Mathematics for Engineers 2 (WSTC AssocD)
700241.2 Signals and Systems (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

700244.2 Kinematics and Kinetics of Machines (WSTC AssocD)
700116.3 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.

700243.2 Circuit Theory (WSTC AssocD)
700240.3 Digital Systems 1 (WSTC AssocD)
700242.2 Electronics (WSTC AssocD)
700102.3 Mathematics for Engineers 2 (WSTC AssocD)

Key Program - Mechanical**KT7004.1**

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 the Bachelor of Engineering (Honours) after graduating from the Associate Degree in Engineering they may be given advanced standing in up to 12 units.

Location**Campus****Mode**

Penrith Campus Multi Modal
 The College - Nirimba Education Precinct Multi Modal

Specialisation Structure

Students must complete three units as follows

700312.1 Thermodynamics and Heat Transfer (WSTC AssocD)

AND two units from the following units:

700116.3	Mechanics of Materials (WSTC AssocD)
700111.3	Fluid Mechanics (WSTC AssocD)
700244.2	Kinematics and Kinetics of Machines (WSTC AssocD)
700102.3	Mathematics for Engineers 2 (WSTC AssocD)

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
200488.6	Corporate Financial Management
200079.3	Derivatives
200916.1	Economic and Financial Modelling
200048.3	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
200917.2	Innovation, Enterprise and Society
200914.1	Working in Professions

Choose one of

200052.7	Introduction to Economic Methods
200032.7	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
200910.2	Financing Enterprises
200048.3	Financial Institutions and Markets

Choose one of

200052.7	Introduction to Economic Methods
200032.7	Statistics for Business

Spring session

200912.1	Enterprise Leadership
200488.6	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
200917.2	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
200048.3 Financial Institutions and Markets

Spring session

- 200911.1** Enterprise Innovation and Markets
200910.2 Financing Enterprises

Year 2**Autumn session**

- 200488.6** Corporate Financial Management

Choose one of

- 200052.7** Introduction to Economic Methods
200032.7 Statistics for Business

Spring session

- 200912.1** Enterprise Leadership

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
200917.2 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	Mode
Parramatta City Campus-Macquarie Street	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
200924.3	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
200549.3	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
- 200917.2** Innovation, Enterprise and Society
- 200914.1** Working in Professions

Choose one of

- 200052.7** Introduction to Economic Methods
- 200032.7** 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
- 200910.2** Financing Enterprises
- 200922.1** Consumers, Firms and Markets

Choose one of

- 200052.7** Introduction to Economic Methods
- 200032.7** Statistics for Business

Spring session

- 200549.3** The Australian Macroeconomy
- 200912.1** Enterprise Leadership
- 200911.1** Enterprise Innovation and Markets

And one elective

Year 2

Autumn session

- 200924.3** 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
- 200917.2** 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

- 200910.2** Financing Enterprises
- 200922.1** Consumers, Firms and Markets

Year 2

Autumn session

- 200549.3** The Australian Macroeconomy

Choose one of

- 200052.7** Introduction to Economic Methods
- 200032.7** Statistics for Business

Spring session

- 200912.1** Enterprise Leadership

And one elective

Year 3

Autumn session

- 200924.3** 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
200917.2 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

200614.3	Enterprise Industrial Relations
200740.5	Human Resource and Industrial Relations Strategy
200859.1	Human Resource Development
200621.3	International Human Resource Management
200300.2	Managing People at Work
200613.3	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
301123.2	Management Analytics
200376.4	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**

200910.2	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
301123.2 Management Analytics

And one elective

Year 2

Autumn session

200614.3 Enterprise Industrial Relations
200621.3 International Human Resource Management

And two electives

Spring session

200739.2 Reward and Performance Management
200376.4 Managing and Developing Careers

And two electives

Year 3

Autumn session

200860.1 People, Work and Society
200613.3 Negotiation, Bargaining and Advocacy
200919.1 Innovation and Professional Practice

And one elective

Spring session

200740.5 Human Resource and Industrial Relations Strategy

Enterprise Engaged Unit

200575.3 Processes and Evaluation in Employment Relations

And two electives

Part-time

Year 1

Autumn session

200910.2 Financing Enterprises
200912.1 Enterprise Leadership

Spring session

301123.2 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

200614.3 Enterprise Industrial Relations

And one elective

Spring session

200376.4 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

200613.3 Negotiation, Bargaining and Advocacy

And one elective

Spring session

200740.5 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

200589.3	Export Strategy and Applications
200815.2	Globalisation and Sustainability
200626.3	International Business Strategy
200094.4	International Marketing
200591.2	Introduction to International Business
200863.1	Leadership and Entrepreneurship
200864.2	Managing in the Global Environment
200098.4	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
200032.7	Statistics for Business
200915.3	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
200032.7	Statistics for Business

Spring session

200909.2	Enterprise Law
200910.2	Financing Enterprises
200864.2	Managing in the Global Environment

And one elective

Year 2

Autumn session

200915.3	The Service Enterprise
200815.2	Globalisation and Sustainability

And two electives

Spring session

200589.3	Export Strategy and Applications
200098.4	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

200626.3	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

200910.2	Financing Enterprises
200912.1	Enterprise Leadership

Year 2

Autumn session

200591.2	Introduction to International Business
200032.7	Statistics for Business

Spring session

200864.2	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**200915.3** The Service Enterprise

And one elective

Year 4**Autumn session****200589.3** Export Strategy and Applications

And one elective

Spring session**200098.4** The Markets of Asia

And one elective

Year 5**Autumn session****200094.4** International Marketing
200863.1 Leadership and Entrepreneurship**Spring session****200918.1** Design Thinking for Creativity

And one elective

Year 6**Autumn session****200626.3** 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
200864.2	Managing in the Global Environment
200865.2	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
301123.2	Management Analytics
200376.4	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**

200910.2	Financing Enterprises
200912.1	Enterprise Leadership
200911.1	Enterprise Innovation and Markets
200585.4	Organisational Behaviour

Spring session

200909.2	Enterprise Law
301123.2	Management Analytics
200864.2	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

200865.2 Managing Operations
200157.4 Organisational Learning and Development
200376.4 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

Enterprise Engaged Unit

200568.3 Contemporary Management Issues

And two electives

Part-time

Year 1

Autumn session

200910.2 Financing Enterprises
200912.1 Enterprise Leadership

Spring session

200909.2 Enterprise Law
301123.2 Management Analytics

Year 2

Autumn session

200911.1 Enterprise Innovation and Markets
200585.4 Organisational Behaviour

Spring session

200864.2 Managing in the Global Environment

And one elective

Year 3

Autumn session

200158.4 Business, Society and Policy

And one elective

Spring session

200865.2 Managing Operations

And one elective

Year 4

Autumn session

200862.1 Creating Change and Innovation

And one elective

Spring session

200376.4 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

Bankstown Campus

Mode

Internal

Campus	Mode
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
200032.7	Statistics for Business
200915.3	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
200032.7	Statistics for Business

Spring session

200910.2	Financing Enterprises
200909.2	Enterprise Law
200084.2	Consumer Behaviour

And one elective

Year 2

Autumn session

200915.3	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
200032.7	Statistics for Business

Year 2

Autumn session

200912.1	Enterprise Leadership
200084.2	Consumer Behaviour

Spring session

200910.2	Financing Enterprises
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And one elective

Year 3

Autumn session

200915.3	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

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

200992.2	Food and Beverage Management
200995.2	Hospitality and Tourism in Practice
200989.2	Hospitality Places and Spaces
200994.2	Hospitality Profitability and Entrepreneurship
200991.1	Service Industry Analytics
200990.1	Special Event Management
200993.2	The Accommodation Industry
200988.2	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
200561.4	Hospitality Management Applied Project
200032.7	Statistics for Business
200915.3	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
200988.2	The Business of Hospitality
200032.7	Statistics for Business

Spring session

200909.2	Enterprise Law
200910.2	Financing Enterprises
200992.2	Food and Beverage Management

And one elective

Year 2**Autumn session**

200915.3	The Service Enterprise
200993.2	The Accommodation Industry
200990.1	Special Event Management

And one elective

Spring session

200989.2	Hospitality Places and Spaces
200918.1	Design Thinking for Creativity

And two electives

Year 3

Autumn session

- 200991.1** Service Industry Analytics
200994.2 Hospitality Profitability and Entrepreneurship

And two electives

Spring session

- 200995.2** Hospitality and Tourism in Practice

Enterprise Engaged Unit

- 200561.4** 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

- 200910.2** Financing Enterprises
200032.7 Statistics for Business

Year 2

Autumn session

- 200988.2** The Business of Hospitality
200912.1 Enterprise Leadership

Spring session

- 200992.2** Food and Beverage Management

And one elective

Year 3

Autumn session

- 200915.3** The Service Enterprise
200993.2 The Accommodation Industry

Spring session

- 200994.2** Hospitality Profitability and Entrepreneurship

And one elective

Year 4

Autumn session

- 200990.1** Special Event Management

And one elective

Spring session

- 200989.2** 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

- 200995.2** Hospitality and Tourism in Practice

Enterprise Engaged Unit

- 200561.4** 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
201079.1	Sport and Society
200996.1	Sport Entertainment
200998.1	Strategic Sport Leadership
201000.1	The World of Sport Business

Note: From 2021 unit 200999 Sport and Society replaced by 201079 Sport and Society.

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
200032.7	Statistics for Business
200915.3	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
200032.7	Statistics for Business

Spring session

200910.2	Financing Enterprises
200909.2	Enterprise Law
200996.1	Sport Entertainment

And one elective

Year 2

Autumn session

200915.3	The Service Enterprise
201079.1	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

200910.2	Financing Enterprises
200912.1	Enterprise Leadership

Year 2

Autumn session

201000.1	The World of Sport Business
200032.7	Statistics for Business

Spring session

200996.1	Sport Entertainment
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And one elective

Year 3

Autumn session

200915.3	The Service Enterprise
201079.1	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

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**Replaced Units**

The core unit listed below counts towards completion of this course for students who passed this unit in 2020 or earlier.

200999 - Sport and Society

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:

300986.2	Applied Mechanics
300987.2	Composite Structures
300988.2	Highway Infrastructure
300990.2	Pile Foundations
300739.3	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

300988.2	Highway Infrastructure
301397.1	Hydrogeology
300990.2	Pile Foundations
300994.2	Waste Management

Replaced Units

The units listed below count towards completion of this Sub-major for students who passed these units in 2020 or earlier.

300989 - Hydrogeology

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

300991.2	Statistical Hydrology
300989.2	Hydrogeology

From 2021 this unit is replaced by

301397.1	Hydrogeology
300993.2	Water Resource Engineering
300992.2	Water and Wastewater Treatment
300994.2	Waste Management
300798.3	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

200503.3	Construction Information Systems
300726.3	Estimating 2
200487.4	Quantity Surveying 2
300748.3	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

300997.2	Data Communications
300019.5	Digital Systems 2
300029.4	Engineering Visualization
300489.3	Radio and Satellite Communication
300065.6	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

300019.5	Digital Systems 2
300995.2	Power Quality
300996.2	Smart Grids and Distributed Generation
300998.2	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

300999.2	Computational Fluid Dynamics
300570.4	Human-Computer Interaction
300044.3	Microcontrollers and PLCs
300043.5	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

300999.2	Computational Fluid Dynamics
300762.3	Fluid Mechanics
300760.3	Thermodynamics and Heat Transfer
300759.3	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

401140.2	Biomechanics
301122.2	Biomedical Electronics
301121.2	Biomedical Signals and Data Analysis
300361.4	Introduction to Human Biology

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

301000.3	Computer Aided Engineering
300029.4	Engineering Visualization
301287.1	Design Graphics: Engineering Documentation
301290.1	Design Graphics: Communication for Manufacture

Please note

The units listed below count towards completion of the course (or major, or sub-major) for students who may have passed these units in 2019 or earlier.

301076.2	Graphics 2: Visual Simulation
301079.2	Graphics 3: 3D Engineering Specifications and Visualisation

Sub-major - Water and Environment

SM3098.1

Location

Campus	Mode
Parramatta Campus - Victoria Road	Internal
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

300991.2	Statistical Hydrology
301397.1	Hydrogeology
300993.2	Water Resource Engineering
300992.2	Water and Wastewater Treatment
300994.2	Waste Management

Replaced Units

The units listed below count towards completion of this Sub-major for students who passed these units in 2020 or earlier.

300989 - Hydrogeology

Sub-major - Computer Aided Design (Mechanical)

SM3099.1

Location

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

Specialisation Structure

This sub-major is only available to students enrolled in 3740 Bachelor of Engineering (Honours) - Mechanical key program only.

Student must complete the following four units

300999.2	Computational Fluid Dynamics
301081.3	Sustainable Design 2: Product Service Systems
301290.1	Design Graphics: Communication for Manufacture
301091.2	Graphics 4: Kinetic Narratives

Please note

The units listed below count towards completion of the course (or major or sub-major) for students who may have passed these units in 2019 or earlier.

301079.2	Graphics 3: 3D Engineering Specifications and Visualisation
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Sub-major - Construction Economics

SM3100.1

Specialisation Structure

This sub-major is only available to students enrolled in 3740 Bachelor of Engineering (Honours) KT3166 Construction key program only.

Student must complete the following four units

301233.1	Advanced Building Measurement
301234.1	Building Cost Studies
200503.3	Construction Information Systems
300748.3	Quality and Value Management

SCHOOL OF SCIENCE

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
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.

Please note that the full three year structure is shown on each of the Major Testamur handbook pages via the links below.

Core units

300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry
300936.2	Functional Proteins and Genes
300893.2	Topics in Medical Science

Choose one of

301259.1	Work Internship for Science Professionals
301261.1	Complex Case Studies in Science

Choose one of

300831.4	Quantitative Thinking
300672.3	Mathematics 1A

Choose one of

300816.2	Cell Biology
300803.2	Essential Chemistry 2

NOTE: All commencing students must take Essential Chemistry 2 (elective) and Cell Biology in Spring semester of Year 1.

Specialisations

Students are required to complete eight specialisation units from one of the following testamur majors:

Please note that the full three year structure is shown on each of the Major Testamur handbook pages via the links below.

MT3030.1	Biomedical Science
MT3028.1	Anatomy and Physiology

From 2021 the following specialisations are not available to commencing students:

MT3029.1	Medicinal Chemistry
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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.

Suggested Elective Sub-majors

SM3044.1	Microbiology
SM3113.1	Environmental Health
SM3114.1	Infectious Diseases

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
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.

Please note that the full three year structure is shown on each of the Major Testamur handbook pages via the links below.

Core units

300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry
300936.2	Functional Proteins and Genes
300893.2	Topics in Medical Science
300937.2	Advanced Science Project A
300938.2	Advanced Science Project B
301258.1	Advanced Science Research Project C

Choose one of

300831.4	Quantitative Thinking
300672.3	Mathematics 1A

Choose one of

300816.2	Cell Biology
300803.2	Essential Chemistry 2

Choose one of

301259.1	Work Internship for Science Professionals
301261.1	Complex Case Studies in Science

NOTE: All commencing students must take Essential Chemistry 2 (elective) and Cell Biology in Spring semester of Year 1.

Specialisations

Students are required to complete eight specialisation units from one of the following testamur majors:

Please note that the full three year structure is shown on each of the Major Testamur handbook pages via the links below.

MT3028.1 Anatomy and Physiology
MT3030.1 Biomedical Science

From 2021 the following specialisations are not available to commencing students:

MT3029.1 Medicinal Chemistry

Electives

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.

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.

Suggested Elective Sub-majors

SM3044.1 Microbiology
SM3113.1 Environmental Health
SM3114.1 Infectious Diseases

Bachelor of Medical Science (Forensic Mortuary Practice)

3733.2

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 2020 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.

Note: This course involves a mandatory health and medical assessment that must be completed prior to enrolling in 301127 Mortuary Practice offered in 1st Half Year 3, and undertaking the associated clinical placement. Students who are unable to pass the assessment by the end of Autumn session in the second 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 medical science or science degree such as 3673 Bachelor of Medical Science (Anatomy and Physiology major) or 3589 Bachelor of Science (Forensic Science).

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.

Special Requirements

In order to enrol in the third year Clinical placement units, all students must have a National Police Certificate, and a First Aid Certificate. 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. When on clinical placement students must wear the Western Sydney University Forensic Science t-shirt. Any special requirements incurring a fee will be at the student's expense.

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

301254.1	Concepts in Human Physiology
300811.2	Scientific Literacy
300806.2	Forensic Science

(Note: 300806 Forensic Science is only available at Hawkesbury campus)

300808.3	Introductory Chemistry
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Spring session

Campbelltown or Hawkesbury Campus

200263.6	Biometry
300816.2	Cell Biology
300803.2	Essential Chemistry 2
301126.2	Concepts in Human Anatomy

Year 2

Autumn session

Campbelltown or Hawkesbury Campus

301269.1	Human Systems Physiology 1
300936.2	Functional Proteins and Genes

Choose one of

300832.2	Analytical Chemistry
300843.2	Forensic and Environmental Analysis

Spring session

Campbelltown or Hawkesbury Campus

300817.2	Molecular Biology
300754.4	Neuroanatomy

(Note: 300754 Neuroanatomy is only available at Campbelltown campus)

400881.3	Functional Anatomy
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(Note: 400881 Functional Anatomy is only available at Campbelltown campus)

301270.1	Human Systems Physiology 2
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Summer session

Hawkesbury Campus

300935.3	Evidence and Crime Scene Management
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Year 3

Autumn session

Campbelltown and Hawkesbury Campus Concurrently

Campbelltown campus

300894.3	Anatomy of the Thorax and Abdomen
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Hawkesbury campus

300868.2	Forensic Chemistry
301120.3	Forensic Anthropology
301394.1	Mortuary Practice

Note: 301394.1 - Mortuary practice replaces 301127.2 - Mortuary Practice from 2021.

Spring session

Campbelltown and Hawkesbury campus Concurrently

300889.1	Pathological Basis of Disease
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Campbelltown campus

300897.3	Anatomy of the Head and Neck
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Hawkesbury campus

401170.3	Forensic Biology
301128.2	Advanced Mortuary Practice

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 choosing MT3021 Nutrition and Food Science will be required to complete a compulsory work placement of a minimum 100 hours. Students choosing any other testamur major may also elect to complete a work placement.

All students must complete 60 credit points of study at Level 3 to meet course requirements. 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.

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	External
Hawkesbury Campus	Part Time	External
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

MT3027 Chemistry - is accredited by The Royal Australian Chemical Institute (RACI). MT3031 Environmental Health - accreditation by Environmental Health Australia is pending.

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 plus 80 credit points of units taken as a Science specialisation plus 80 credit points of elective units.

For MT3031 Environmental Health specialisation, students must complete 80 credit points of core units plus 120 credit points of Environmental Health units plus 40 credit points of 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.

Please note that the full three year structure is shown on each of the Major Testamur handbook pages via the links below.

Core Units

All students are required to complete the following three units:

300811.2	Scientific Literacy
300808.3	Introductory Chemistry
300802.3	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

300816.2	Cell Biology
300803.2	Essential Chemistry 2

Mathematics

Choose one of

300831.4	Quantitative Thinking
300672.3	Mathematics 1A
200263.6	Biometry

Analytical Science

Choose one of

300580.4	Programming Fundamentals
300936.2	Functional Proteins and Genes
300843.2	Forensic and Environmental Analysis
300932.2	Natural Science Research Methods
300832.2	Analytical Chemistry

From 2021 students can also choose

300872.2	Epidemiology
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Work Integrated Learning

Choose one of

301259.1	Work Internship for Science Professionals
301261.1	Complex Case Studies in Science

Note: Students undertaking either MT3021 Nutrition and Food Science or MT3031 Environmental Health must choose 301259 Work Internship for Science Professionals.

Capstone

Choose one of

300883.2	Laboratory Quality Management
300909.2	Biological Adaptation to Climate Change
200022.4	Mathematical Modelling
301110.2	Applications of Big Data
300913.2	Field Project 1
300922.3	Quality Assurance and Food Analysis

Specialisations

Students are required to complete eight specialisation core units from one of the following testamur majors.

Students selecting MT3031 Environmental Health are required to complete twelve specialisation units.

Students may only select one testamur major:

Please note that the full three year structure is shown on each of the Major Testamur handbook pages via the links below.

MT3015.1	Animal Science
MT3026.1	Applied Physics
MT3042.1	Biology
MT3027.1	Chemistry
MT3031.1	Environmental Health
MT3022.1	Forensic Science

If selecting MT3022 Forensic Science, please see note under the Electives heading

MT3025.1	Mathematics
MT3021.1	Nutrition and Food Science
MT3043.1	Sustainable Environmental Futures
MT3014.1	Zoology

From 2021 the following specialisations are not available to commencing students:

MT3016.1	Biology
MT3032.1	Data Science
MT3017.1	Ecology
MT3018.1	Environmental Futures
MT3024.1	Forensic Biology
MT3023.1	Forensic Chemistry
MT3019.1	Microbiology

Electives

Students may use their elective units to complete a major (80 credit points) or one or more sub-majors (40 credit points each) from the same or another discipline area, or up to 80 credit points from the wide range of units offered by Western Sydney University.

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.

Suggested Elective Sub-majors

SM3044.1	Microbiology
SM3113.1	Environmental Health
SM3114.1	Infectious Diseases

Note:

Students selecting MT3022 Forensic Science must use their elective units to complete M3120.1 Crime Scene Investigation to meet industry requirements.

M3120.1	Crime Scene Investigation
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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 choosing MT3021 Nutrition and Food Science will be required to complete a compulsory work placement of a minimum 100 hours. Students choosing any other testamur major may also elect to complete a work placement.

All students must complete 60 credit points of study at Level 3 to meet course requirements. 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.

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. 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.

For MT3031 Environmental Health specialisation, students must complete 120 credit points of core units plus 120 credit points of Environmental Health units.

Students must complete at least 60 credit points at Level 3. 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.

Please note that the full three year structure is shown on each of the Major Testamur handbook pages via the links below.

Core Units

300811.2	Scientific Literacy
300808.3	Introductory Chemistry
300802.3	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

300816.2	Cell Biology
300803.2	Essential Chemistry 2

Mathematics

Choose one of

300831.4	Quantitative Thinking
300672.3	Mathematics 1A
200263.6	Biometry

Analytical Science

Choose one of

300580.4	Programming Fundamentals
300936.2	Functional Proteins and Genes

300843.2	Forensic and Environmental Analysis
300932.2	Natural Science Research Methods
300832.2	Analytical Chemistry

From 2021 students can also choose

300872.2	Epidemiology
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Work Integrated Learning

Choose one of

301259.1	Work Internship for Science Professionals
301261.1	Complex Case Studies in Science

Note: Students undertaking either MT3021 Nutrition and Food Science or MT3031 Environmental Health must choose 301259 Work Internship for Science Professionals.

Capstone

Choose one of

300883.2	Laboratory Quality Management
300909.2	Biological Adaptation to Climate Change
200022.4	Mathematical Modelling
301110.2	Applications of Big Data
300913.2	Field Project 1
300922.3	Quality Assurance and Food Analysis

Advanced Science

All students are required to complete the advanced science units:

300937.2	Advanced Science Project A
300938.2	Advanced Science Project B
301258.1	Advanced Science Research Project C

Specialisations

Students are required to complete eight specialisation core units from one of the following primary Science specialisations.

Students selecting MT3031 Environmental Health are required to complete twelve specialisation core units

Students may only select one testamur major:

Please note that the full three year structure is shown on each of the Major Testamur handbook pages via the links below.

MT3015.1	Animal Science
MT3026.1	Applied Physics
MT3042.1	Biology
MT3027.1	Chemistry
MT3031.1	Environmental Health
MT3022.1	Forensic Science

If selecting MT3022 Forensic Science, please see note under the Electives heading

MT3025.1	Mathematics
MT3021.1	Nutrition and Food Science
MT3043.1	Sustainable Environmental Futures
MT3014.1	Zoology

From 2021 the following specialisations are not available to commencing students:

MT3016.1	Biology
MT3032.1	Data Science

MT3017.1	Ecology
MT3018.1	Environmental Futures
MT3024.1	Forensic Biology
MT3023.1	Forensic Chemistry
MT3019.1	Microbiology

Electives

Students may use their elective units to complete a major/sub-major from the same or another discipline area (40 credit points), or up to 40 credit points from the wide range of units offered by Western Sydney University.

Suggested Elective Sub-majors

SM3044.1	Microbiology
SM3113.1	Environmental Health
SM3114.1	Infectious Diseases

Enrolment in elective units is subject to meeting any required criteria for individual units, such as co-requisites and pre-requisites.

Note:

Students selecting MT2022 Forensic Science must use their elective units to complete M3120 Crime Scene Investigation to meet industry requirements

M3120.1	Crime Scene Investigation
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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.

Students choosing MT3021 Nutrition and Food Science will be required to complete a compulsory work placement of a minimum 100 hours. Students choosing any other testamur major may also elect to complete a work placement.

All students must complete 60 credit points of study at Level 3 to meet course requirements. 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.

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: 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.

For MT3031 Environmental Health specialisation, students must complete 80 credit points of core units plus 120 credit points of Environmental Health specialisation units plus 40 credit points taken within the sub-major Education Studies (SM1100).

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.

Please note that the full three year structure is shown on each of the Major Testamur handbook pages via the links below.

Core Units

All students are required to complete the following three units:

300811.2	Scientific Literacy
300808.3	Introductory Chemistry
300802.3	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

300816.2	Cell Biology
300803.2	Essential Chemistry 2

Mathematics

Choose one of

300831.4	Quantitative Thinking
300672.3	Mathematics 1A
200263.6	Biometry

Analytical Science

Choose one of

300580.4	Programming Fundamentals
300936.2	Functional Proteins and Genes
300843.2	Forensic and Environmental Analysis
300932.2	Natural Science Research Methods
300832.2	Analytical Chemistry

From 2021 students can also choose

300872.2	Epidemiology
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Work Integrated Learning

Choose one of

301259.1	Work Internship for Science Professionals
301261.1	Complex Case Studies in Science

Note: Students undertaking either MT3021 Nutrition and Food Science or MT3031 Environmental Health must choose 301259 Work Internship for Science Professionals.

Capstone

Choose one of

300883.2	Laboratory Quality Management
300909.2	Biological Adaptation to Climate Change
200022.4	Mathematical Modelling
301110.2	Applications of Big Data
300913.2	Field Project 1
300922.3	Quality Assurance and Food Analysis

Sub-major Education Studies

Students must complete the sub-major Education Studies (SM1100).

Specialisations

Students are required to complete 80 credit points of units from one of the following Science testamur majors.

For MT3031 Environmental Health, students must complete 120 credit points of Science specialisation units.

Students may only select one testamur major:

Please note that the full three year structure is shown on each of the Major Testamur handbook pages via the links below.

MT3015.1	Animal Science
MT3026.1	Applied Physics
MT3042.1	Biology
MT3027.1	Chemistry
MT3031.1	Environmental Health
MT3022.1	Forensic Science

If selecting MT3022 Forensic Science, please see note under the Electives heading

MT3025.1	Mathematics
MT3021.1	Nutrition and Food Science
MT3043.1	Sustainable Environmental Futures
MT3014.1	Zoology

From 2021 the following specialisations are not available to commencing students:

MT3016.1	Biology
MT3032.1	Data Science
MT3017.1	Ecology
MT3018.1	Environmental Futures
MT3024.1	Forensic Biology
MT3023.1	Forensic Chemistry
MT3019.1	Microbiology

Electives

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.

Students may use their elective units to complete an additional specialisation from the wide range of units offered by Western Sydney University.

Suggested Elective Sub-majors

SM3044.1	Microbiology
SM3113.1	Environmental Health
SM3114.1	Infectious Diseases

Enrolment in elective units is subject to meeting any required criteria for individual units, such as co-requisites and pre-requisites.

NOTE: Students selecting MT2022 Forensic Science must use their elective units to complete M3120 Crime Scene Investigation to meet industry requirements.

M3120.1	Crime Scene Investigation
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Bachelor of Science/Bachelor of Arts

3763.1

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.

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 testamur major selected from a the following: Zoology, Animal Science, Biology, Microbiology, Nutrition and Food Science, Forensic Biology, Forensic Chemistry, Mathematics, Data Science, Applied Physics, Chemistry, Sustainable Environmental Futures 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.

Students should note that not all majors and units are available at all campuses and travel between campuses may be required.

Study Mode

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

Location

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Full Time	Internal

Accreditation

MT3027 (Chemistry) when undertaken within the Bachelor of Science is accredited with Royal Australian Chemical Institute (RACI)

Admission

Assumed Knowledge: At least 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 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 120 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 with at least 60 credit points at Level 3 or above.

Students completing the Bachelor of Science portion of this double degree must complete one of the Science testamur 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 comprising eight Bachelor of Science core units, eight Bachelor of Science testamur major units and eight Arts units as listed in the course sequence below

Bachelor of Science core units

Students should note that core units will be allocated based on the Testamur Major chosen and as indicated in the relevant Testamur Major sequence.

Bachelor of Science core units are:

Choose all of:

300802.3	Biodiversity
300808.3	Introductory Chemistry
300811.2	Scientific Literacy

Foundation

Choose one of (depending on testamur major selected)

300816.2	Cell Biology
300803.2	Essential Chemistry 2

Mathematics

Choose one of (depending on testamur major selected)

200263.6	Biometry
300672.3	Mathematics 1A
300831.4	Quantitative Thinking

Analytical Science

Choose one of (depending on testamur major selected)

300832.2	Analytical Chemistry
300843.2	Forensic and Environmental Analysis
300936.2	Functional Proteins and Genes
300932.2	Natural Science Research Methods
300580.4	Programming Fundamentals

Work Integrated Learning

Choose one of

301261.1	Complex Case Studies in Science
301259.1	Work Internship for Science Professionals

Core Capstone

Choose one of (depending on testamur major selected)

301110.2	Applications of Big Data
300909.2	Biological Adaptation to Climate Change
300913.2	Field Project 1
300883.2	Laboratory Quality Management
200022.4	Mathematical Modelling
300922.3	Quality Assurance and Food Analysis

Bachelor of Science Testamur Majors

Students must choose one of the following testamur majors

MT3015.1	Animal Science
MT3026.1	Applied Physics
MT3042.1	Biology
MT3027.1	Chemistry
MT3032.1	Data Science
MT3024.1	Forensic Biology
MT3023.1	Forensic Chemistry
MT3025.1	Mathematics
MT3019.1	Microbiology
MT3021.1	Nutrition and Food Science
MT3043.1	Sustainable Environmental Futures
MT3014.1	Zoology

From 2021 the following specialisations are no longer available

MT3016.1	Biology
MT3017.1	Ecology
MT3018.1	Environmental Futures

Please note that not all Testamur Majors are available at all campuses.

Years 1 to 4

In Years 1 to 4 students will complete the four level 1 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. Please note that not all Arts majors are available at all campuses.

The four Level 1 Bachelor of Arts (BA) core units:

102738.1	Australian Politics and Active Citizenship
102736.1	Diversity, Language and Culture
102735.1	Foundations of Academic English
102737.1	Thinking Critically About Texts and Society

For details of the relevant Arts Specialisations, refer to the current listing of Bachelor of Arts.

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

Please note: Students commencing this course in 2021 should enrol in and complete M1131 Culture and Society.

M1131.1	Culture and Society
M2510.1	Economy and Markets
M1053.1	English
M1071.1	Geography and Urban Studies
M1054.1	History and Political Thought

Please note: Students commencing this course in 2021 should enrol in and complete M1137 History and Political Thought.

M1137.1	History and Political Thought
M1041.1	Indigenous Australian Studies
M1093.1	Indonesian
M2514.1	Innovation and Change
M1129.1	International English

Please note: Students commencing this course in 2021 should enrol in and complete M1132 International English.

M1132.1	International English
M1055.1	International Relations and Asian Studies
M1056.1	Islamic Studies
M1062.1	Japanese
M1119.1	Linguistics
M1058.1	Philosophy
M1110.1	Psychological Studies
M1073.1	Sociology

Bachelor of Arts Sub-majors

SM1077.1	Arabic
SM1078.1	Chinese
SM1116.1	Creative Writing
SM1070.1	Cultural and Social Analysis

Please note: Students commencing this course in 2021 should enrol in and complete SM1138 Culture and Society.

SM1138.1	Culture and Society
SM1071.1	English
SM1072.1	History and Political Thought

Please note: Students commencing this course in 2021 should enrol in and complete SM1145 History and Political Thought.

SM1145.1	History and Political Thought
SM1128.1	Immersion Language
SM1049.1	Indigenous Australian Studies
SM1112.1	Indonesian
SM1132.1	International English

Please note: Students commencing this course in 2021 should enrol in and complete SM1139 International English.

SM1139.1	International English
SM1073.1	International Relations and Asian Studies
SM1080.1	Japanese
SM1119.1	Linguistics
SM1076.1	Philosophy
SM1115.1	Psychological Studies

Recommended Sequence

Year 1

Autumn session

Choose two core Arts units from:

102738.1	Australian Politics and Active Citizenship
102736.1	Diversity, Language and Culture
102735.1	Foundations of Academic English
102737.1	Thinking Critically About Texts and Society

Two Science core units:

300802.3	Biodiversity
300808.3	Introductory Chemistry

Spring session

Choose two Core Arts units from:

102738.1	Australian Politics and Active Citizenship
102736.1	Diversity, Language and Culture
102735.1	Foundations of Academic English
102737.1	Thinking Critically About Texts and Society

Choose one core Science Mathematics unit (depending on testamur major selected):

200263.6	Biometry
300672.3	Mathematics 1A
300831.4	Quantitative Thinking

Choose one core Science Foundation unit (depending on testamur major selected):

300816.2	Cell Biology
300803.2	Essential Chemistry 2

Year 2

Autumn session

300811.2	Scientific Literacy
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Choose one Analytical Science unit (depending on testamur major selected):

300580.4	Programming Fundamentals
300936.2	Functional Proteins and Genes
300843.2	Forensic and Environmental Analysis
300932.2	Natural Science Research Methods
300832.2	Analytical Chemistry

Choose one Arts major or sub-major unit

Choose one Science testamur major unit (see the sequence provided with each testamur major)

Spring session

Choose one of

301259.1	Work Internship for Science Professionals
301261.1	Complex Case Studies in Science

Choose one Arts major or sub-major unit

Choose two Science testamur major units (see sequence provided with each testamur major).

Year 3

Autumn session

Choose one Science capstone unit (depending on testamur major chosen):

300833.3	Microbiology 1
300909.2	Biological Adaptation to Climate Change
200022.4	Mathematical Modelling
301110.2	Applications of Big Data
300913.2	Field Project 1
300992.2	Water and Wastewater Treatment

Choose one Arts major or sub-major unit

Choose Two Science testamur major units (see the sequence provided with each testamur major)

Spring session

Choose one Arts major or sub-major unit

Choose three Science testamur major units (see the sequence provided with each testamur major)

Year 4

Autumn session

Choose four Bachelor of Arts major or sub-major units

Spring session

Choose four Bachelor of Arts major or sub-major units

Bachelor of Science/Bachelor of Business

4748.3

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 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.

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. This double degree permits students to undertake multi-skilling, and offers diverse career paths providing high marketability in multiple areas of expertise. Graduates will have a solid grounding in a core science discipline from a range of majors including Biology, Data Science, Ecology, Zoology, Environmental Health, Mathematics, and Forensic Chemistry. 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, and 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
Hawkesbury 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 - Human Resource Management (including online) is 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 with the selected testamur major, and a Bachelor of Business.

Students should note that core units will be allocated based on the Testamur Major chosen and as indicated in the relevant testamur major sequence.

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

Science component

Students should note that core units will be allocated based on the Testamur Major chosen and as indicated in the relevant testamur major sequence.

Bachelor of Science core units are

Choose all

300802.3	Biodiversity
300808.3	Introductory Chemistry
300811.2	Scientific Literacy

Foundation

(depending on testamur major selected):

Choose one of

300816.2	Cell Biology
300803.2	Essential Chemistry 2

Mathematics

(depending on testamur major selected):

Choose one of

300831.4	Quantitative Thinking
300672.3	Mathematics 1A
200263.6	Biometry

Analytical Science

(depending on testamur major selected):

Choose one of

300580.4	Programming Fundamentals
300936.2	Functional Proteins and Genes
300843.2	Forensic and Environmental Analysis
300932.2	Natural Science Research Methods
300832.2	Analytical Chemistry

Work Integrated Learning

Choose one of

301259.1	Work Internship for Science Professionals
301261.1	Complex Case Studies in Science

Core Capstone

(depending on testamur major selected):

Choose one of

300883.2	Laboratory Quality Management
300909.2	Biological Adaptation to Climate Change
200022.4	Mathematical Modelling
301110.2	Applications of Big Data
300913.2	Field Project 1
300922.3	Quality Assurance and Food Analysis

Bachelor of Science Testamur Majors

Students must choose one of the following testamur majors:

MT3015.1	Animal Science
MT3026.1	Applied Physics
MT3042.1	Biology
MT3027.1	Chemistry
MT3032.1	Data Science
MT3024.1	Forensic Biology
MT3023.1	Forensic Chemistry
MT3025.1	Mathematics
MT3019.1	Microbiology
MT3021.1	Nutrition and Food Science
MT3043.1	Sustainable Environmental Futures
MT3014.1	Zoology

As of 2021 the following specialisations are no longer available:

MT3016.1	Biology
MT3017.1	Ecology
MT3018.1	Environmental Futures

Please note that not all Testamur Majors are available at all campuses.

Business component

Core units (compulsory 40 credit points)

The four compulsory core units that provide students with essential business knowledge are:

200909.2	Enterprise Law
200910.2	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.

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 (BBus) 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.

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

Year 1

Autumn session

- B Bus core unit 1
- B Bus core unit 2

300802.3	Biodiversity
300808.3	Introductory Chemistry

Spring Session

- B Bus core unit 3
- B Bus core unit 4

One core Science Mathematics unit (depending on testamur major selected)

Choose one of

300831.4	Quantitative Thinking
300672.3	Mathematics 1A
200263.6	Biometry

And

One core Science Foundation unit (depending on testamur major selected)

Choose one of

300816.2	Cell Biology
300803.2	Essential Chemistry 2

Year 2

Autumn session

- B Bus professional unit 1
- B Bus major unit 1

Two core Science units comprising:

One Analytical Science unit (depending on testamur major selected):

Choose one of

- 300580.4** Programming Fundamentals
- 300936.2** Functional Proteins and Genes
- 300843.2** Forensic and Environmental Analysis
- 300932.2** Natural Science Research Methods
- 300832.2** Analytical Chemistry

And

- 300811.2** Scientific Literacy

Spring session

B Bus professional unit 2

B Bus major unit 2

One core Science Work Integrated learning unit.

Choose one of

- 301259.1** Work Internship for Science Professionals
- 301261.1** Complex Case Studies in Science

And

One Science testamur major units (see sequence provided with each testamur major).

Year 3

Autumn session

B Bus major unit 3

B Bus major unit 4

One Science capstone unit (depending on testamur major chosen):

Choose one of

- 300883.2** Laboratory Quality Management
- 300909.2** Biological Adaptation to Climate Change
- 200022.4** Mathematical Modelling
- 301110.2** Applications of Big Data
- 300913.2** Field Project 1
- 300922.3** Quality Assurance and Food Analysis

And

One Science testamur major units (see sequence provided with each testamur major).

Spring session

B Bus major unit 5

B Bus major unit 6

Two Science testamur major units (see the sequence provided with each testamur major).

Year 4

Autumn session

B Bus professional unit 3

B Bus major unit 7

Two Science testamur major units (see the sequence provided with each testamur major).

Spring session

B Bus professional unit 4

B Bus major unit 8

Two Science testamur major units (see the sequence provided with each testamur major).

Bachelor of Science/Bachelor of International Studies

3764.1

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 2020 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 testamur major selected from the following: Zoology, Animal Science, Biology, , Microbiology, Nutrition and Food Science, Forensic Biology, Forensic Chemistry, Mathematics, Data Science, Applied Physics, Chemistry, Sustainable Environmental Futures

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 3764their IRAS Major and language sub major subject to WSU limits on advanced standing. Students are encouraged to do so but must discuss this with a B.IS or BA course advisor first.

Students should note that not all majors and units are available at all campuses and travel between campuses may be required.

Study Mode

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

Location

Campus

Attendance Mode

Parramatta Campus - Victoria Road Full Time Internal

Accreditation

MT3027 (Chemistry) when undertaken within the Bachelor of Science is accredited with Royal Australian Chemical Institute (RACI)

Admission

The following sets of Assumed Knowledge and Recommended Studies apply.

Bachelor of Science

Assumed knowledge: At least two unit science (any science) and two unit mathematics at year 12 equivalent.

Bachelor of International Studies

Assumed knowledge: Two units of HSC English at Band 4

Recommended studies: HSC English Standard, or equivalent

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 120 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 with at least 60 credit points at Level 3 or above

Students completing the Bachelor of Science portion of this double degree must complete one of the Science testamur 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 Science

Students complete 160 credit points of Bachelor of Science units comprising eight Bachelor of Science core units, eight Bachelor of Science testamur major units and eight BIS units as listed in the course structure below.

Bachelor of Science core units

Students should note that core units will be allocated based on the Testamur Major chosen and as indicated in the relevant Testamur Major sequence.

Choose all of:

- 300802.3** Biodiversity
- 300808.3** Introductory Chemistry
- 300811.2** Scientific Literacy

Foundation

Choose one of (depending on testamur major selected):

- 300816.2** Cell Biology
- 300803.2** Essential Chemistry 2

Mathematics

Choose one of (depending on testamur major selected):

- 200263.6** Biometry
- 300672.3** Mathematics 1A
- 300831.4** Quantitative Thinking

Analytical Science

Choose one of (depending on testamur major selected):

- 300832.2** Analytical Chemistry
- 300843.2** Forensic and Environmental Analysis
- 300936.2** Functional Proteins and Genes
- 300932.2** Natural Science Research Methods
- 300580.4** Programming Fundamentals

Work Integrated Learning

Choose one of:

- 301261.1** Complex Case Studies in Science
- 301259.1** Work Internship for Science Professionals

Core Capstone

Choose one of (depending on testamur major selected):

- 301110.2** Applications of Big Data
- 300909.2** Biological Adaptation to Climate Change
- 300913.2** Field Project 1
- 300883.2** Laboratory Quality Management
- 200022.4** Mathematical Modelling
- 300922.3** Quality Assurance and Food Analysis

Bachelor of Science Testamur Majors

Students must choose one of the following testamur majors:

- MT3015.1** Animal Science
- MT3026.1** Applied Physics
- MT3042.1** Biology
- MT3027.1** Chemistry
- MT3032.1** Data Science
- MT3024.1** Forensic Biology
- MT3023.1** Forensic Chemistry
- MT3025.1** Mathematics
- MT3019.1** Microbiology
- MT3021.1** Nutrition and Food Science
- MT3043.1** Sustainable Environmental Futures
- MT3014.1** Zoology

As of 2021 the following specialisations are no longer available:

- MT3016.1** Biology
- MT3017.1** Ecology
- MT3018.1** Environmental Futures

Please note that not all Testamur Majors are available at all campuses.

Years 1 to 4 Arts

In Years 1 to 4 students complete the four level 1 Bachelor of Arts (BA) core units, plus the eight-unit International Relations and Asian Studies major and one of the four-unit language sub-majors listed.

The four Level 1 Bachelor of Arts (BA) core units

102738.1	Australian Politics and Active Citizenship
102736.1	Diversity, Language and Culture
102735.1	Foundations of Academic English
102737.1	Thinking Critically About Texts and Society

Students must also complete units in the following, as per the chosen course structure

Major - International Relations and Asian Studies

M1055.1	International Relations and Asian Studies
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Sub-major

A sub-major in one of the following languages must be undertaken in conjunction with the major

SM1077.1	Arabic
SM1078.1	Chinese
SM1112.1	Indonesian
SM1080.1	Japanese
SM1128.1	Immersion Language
SM1139.1	International English

Note: The following sub-majors have inherent requirements, SM1077 Arabic, SM1078 Chinese, SM1080 Japanese and SM1112 Indonesian. Please see the link below:

Students should seek course advice in relation to the level 2/3 language sequences

For details of International Studies units required please see course 1658 Bachelor of International Studies.

Recommended Sequence

Year 1

Autumn session

BA Core unit
BA Core unit

300802.3	Biodiversity
300808.3	Introductory Chemistry

Spring session

BA Core unit
BA Core unit

Choose one core Science Mathematics unit (depending on testamur major selected):

200263.6	Biometry
300672.3	Mathematics 1A
300831.4	Quantitative Thinking

Choose one core Science Foundation unit (depending on testamur major selected)

300816.2	Cell Biology
300803.2	Essential Chemistry 2

Year 2

Autumn session

101442.2	Asia in the World
300811.2	Scientific Literacy

Choose one Analytical Science unit (depending on testamur major selected):

300832.2	Analytical Chemistry
300843.2	Forensic and Environmental Analysis
300936.2	Functional Proteins and Genes
300932.2	Natural Science Research Methods
300580.4	Programming Fundamentals

Choose one testamur major unit (see sequence provided with each testamur major)

Spring session

101956.1	Introduction to International Relations
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Choose one of:

301259.1	Work Internship for Science Professionals
301261.1	Complex Case Studies in Science

Choose two Science testamur major units (see sequence provided with each testamur major).

Year 3

Autumn session

Choose one Language sub-major unit

Choose one Science capstone unit (depending on testamur major chosen):

300883.2	Laboratory Quality Management
300909.2	Biological Adaptation to Climate Change
200022.4	Mathematical Modelling
301110.2	Applications of Big Data
300913.2	Field Project 1
300922.3	Quality Assurance and Food Analysis

Choose two Science testamur major units (see sequence provided with each testamur major).

Spring session

Choose one Language sub-major unit

Choose three Science testamur major units (see the sequence provided with each testamur major).

Year 4

Autumn session

100277.4	Politics of Australia and Asia Relations
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Choose two Level 2/3 International Relations and Asian Studies major units

Choose one Language sub-major unit

Spring session

101957.2	The Asian Century
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Choose two Level 2/3 International Relations and Asian Studies major units

Choose one Language sub-major unit

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

300804.2	Feeding the Planet
300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry

Spring session

300823.2	Soils
300831.4	Quantitative Thinking
300805.2	Food Science 1
301096.2	Horticultural Production Systems

Year 2

Autumn session

301097.2	Greenhouse Technology for Food Sustainability
300840.2	Environmental Planning and Climate Change

Choose one of

300931.2	Integrated Science
101331.3	Issues in World Development: Rich World, Poor World
200083.2	Marketing Principles

And one elective

Spring session

300791.2	Sustainable Food Production
300790.2	Agriculture, Food and Health
300932.2	Natural Science Research Methods

And one elective

Year 3**1H/Autumn session**

- 300913.2** Field Project 1
301098.2 Analysis of Agricultural Supply and Demand

Choose one of

- 200862.1** Creating Change and Innovation
300921.2 Plant Health and Biosecurity
101569.3 Sustainable Futures

And one elective

2H/Spring session

- 300914.2** Field Project 2

Choose two of

- 200158.4** Business, Society and Policy
101595.3 Community and Social Action
200815.2 Globalisation and Sustainability
300869.2 Postharvest
300961.4 Social Computing
300870.2 Water in the Landscape

And one elective

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

- 300811.2** Scientific Literacy
300805.2 Food Science 1
301096.2 Horticultural Production Systems

And one elective

Autumn session

- 300804.2** Feeding the Planet
300831.4 Quantitative Thinking
300802.3 Biodiversity
300808.3 Introductory Chemistry

Year 2**Spring session**

- 300791.2** Sustainable Food Production
300790.2 Agriculture, Food and Health
300932.2 Natural Science Research Methods
300823.2 Soils

1H/Autumn session

- 300913.2** Field Project 1
301097.2 Greenhouse Technology for Food Sustainability

Choose one of

- 300931.2** Integrated Science
101331.3 Issues in World Development: Rich World, Poor World
200083.2 Marketing Principles

And one elective

Year 3**2H/Spring session**

- 300914.2** Field Project 2

Choose two of

- 200158.4** Business, Society and Policy
101595.3 Community and Social Action
200815.2 Globalisation and Sustainability
300869.2 Postharvest
300961.4 Social Computing
300870.2 Water in the Landscape

And one elective

Autumn session

- 301098.2** Analysis of Agricultural Supply and Demand
300840.2 Environmental Planning and Climate Change

Choose one of

- 300921.2** Plant Health and Biosecurity
101569.3 Sustainable Futures
200862.1 Creating Change and Innovation

And one elective

Suggested Elective Units

- 301263.2** Protected Cropping Climate Control and Technology
301277.1 Protected Cropping Plant Nutrition

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.

Diploma in Science/Bachelor of Medical Science**6042.1**

This degree will provide opportunities to learn about the sciences underpinning human health, and their application to disease. The degree has the choice of three primary majors: biomedical science, medicinal chemistry or anatomy and physiology. Students need note that different majors and sub-majors are offered on different campuses. Graduates may 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, allied health companies and various research and quality control laboratories, as well as further study including research degrees, 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.

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
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 are required to have:

- Completed an English unit in the NSW Higher School Certificate, or
- Competency in English at IELTS academic 6.0 equivalent (unless a native speaker) or
- Passed The College English test with 70% or higher 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 academic 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 completion of 250 credit points which includes:

90 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 or above.

Year 1 - College units

Standard 3 term (90 credit points)

First Term of Study

700043.3	Chemistry (WSTC Prep)
700124.3	Scientific Literacy (WSTC)
700095.3	Biodiversity (WSTC)

Second Term of Study

700123.3	Quantitative Thinking (WSTC)
700155.3	Introductory Chemistry (WSTC)
700125.3	Cell Biology (WSTC)

Third Term of Study

700122.3	Essential Chemistry 2 (WSTC)
700295.1	Concepts in Human Physiology (WSTC)
700266.2	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 to 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 2 units.

Students must pass at least 70 credit points of University level units in Year 1 before progressing to the Year 2 units.

Years 2 and 3

Western Sydney University Units

Core Units

300936.2	Functional Proteins and Genes
300893.2	Topics in Medical Science

Choose one of

301259.1	Work Internship for Science Professionals
301261.1	Complex Case Studies in Science

Specialisations

In Years Two and Three students are required to complete one of the following testamur majors:

MT3028.1	Anatomy and Physiology
MT3030.1	Biomedical Science

From 2021 the following specialisations are not available to commencing students:

MT3029.1	Medicinal Chemistry
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Elective Units

Students may use their elective units to complete an additional specialisation or choose 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.

Students should note that either 700125 Cell Biology or 700122 Essential Chemistry 2 (depending on testamur major chosen) will be considered an elective unit.

Diploma in Science/Bachelor of Science

6043.1

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 choosing MT3021 Nutrition and Food Science will be required to complete a compulsory work placement of a minimum 100 hours. Students choosing any other testamur major may also elect to complete a work placement.

All students must complete 60 credit points of study at Level 3 to meet course requirements. 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.

Students need to note that different majors are offered on different campuses, and not all majors will be offered at every campus.

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.

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

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Part 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 are required to have:

- Completed an English unit in the NSW Higher School Certificate, or
- Competency in English at IELTS academic 6.0 equivalent (unless a native speaker) or
- Passed The College English test with 70% or higher 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 academic 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 completion of 250 credit points which includes: 90 credit points of core units, 80 credit points taken as a Science specialisation plus 80 credit points of elective units.

For MT3031 Environmental Health specialisation, students must complete 80 credit points of core units plus 120 credit points of Environmental Health units plus 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.

Year one - College units

Standard 3 term (90 credit points)

First Term of Study

700043.3	Chemistry (WSTC Prep)
700124.3	Scientific Literacy (WSTC)
700095.3	Biodiversity (WSTC)

Second Term of Study

700123.3	Quantitative Thinking (WSTC)
700155.3	Introductory Chemistry (WSTC)
700125.3	Cell Biology (WSTC)

Third Term of Study

700122.3	Essential Chemistry 2 (WSTC)
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Choose two of the following (depending on the testamur major chosen).

700295.1	Concepts in Human Physiology (WSTC)
700297.1	Management of Aquatic Environments (WSTC)
700061.4	Introduction to Human Biology (WSTC)
700296.1	Environmental Issues and Solutions (WSTC)
700266.2	Concepts in Human Anatomy (WSTC)
700298.1	Water Quality Assessment and Management (WSTC)
700265.2	Food Science 1 (WSTC)

Students must pass all College Preparatory units before progressing to the Year 2 units.

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 to Year 2 may also be awarded the Diploma if they gain a passing grade in all of the above units.

Students must pass at least 70 credit points of University level units in Year 1 before progressing to the Year 2 units.

Years 2 and 3**Western Sydney University Units**

160 credit points as per the rules of the Bachelor of Science (3754)

Core Units

Choose one of

300580.4	Programming Fundamentals
300936.2	Functional Proteins and Genes
300843.2	Forensic and Environmental Analysis
300932.2	Natural Science Research Methods
300832.2	Analytical Chemistry

From 2021 students will also be able to choose

300872.2	Epidemiology
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Work Integrated Learning

All students can choose one of these two units:

301259.1	Work Internship for Science Professionals
301261.1	Complex Case Studies in Science

Note: Students undertaking either MT3021 Nutrition and Food Science or MT3031 Environmental Health must choose 301259 Work Internship for Science Professionals.

Choose one of (see note below)

300883.2	Laboratory Quality Management
300909.2	Biological Adaptation to Climate Change
200022.4	Mathematical Modelling
301110.2	Applications of Big Data
300913.2	Field Project 1
300922.3	Quality Assurance and Food Analysis

Note: Students are allocated a core unit from these areas depending on the specialisation chosen. Students should consult the sequence of units identified for each specialisation.

Specialisations

Students are required to complete eight specialisation core units from one of the following testamur majors.

Students selecting MT3031 Environmental Health are required to complete twelve specialisation core units.

Students may only select one testamur major.

MT3015.1	Animal Science
MT3026.1	Applied Physics
MT3042.1	Biology
MT3027.1	Chemistry
MT3031.1	Environmental Health
MT3022.1	Forensic Science

If selecting MT3022 Forensic Science, please see note under the Electives heading

MT3025.1	Mathematics
MT3021.1	Nutrition and Food Science
MT3043.1	Sustainable Environmental Futures
MT3014.1	Zoology

From 2021 the following specialisations are not available to commencing students:

MT3016.1	Biology
MT3032.1	Data Science
MT3017.1	Ecology
MT3018.1	Environmental Futures
MT3024.1	Forensic Biology
MT3023.1	Forensic Chemistry
MT3019.1	Microbiology

Electives Units

Students may use their elective units to complete one of the following:

Suggested Elective Sub-majors

SM3044.1	Microbiology
SM3113.1	Environmental Health
SM3114.1	Infectious Diseases

Students may use their elective units to complete an additional specialisation or choose from the wide range of units offered by Western Sydney University.

Note: Students selecting MT3022 Forensic Science must use their elective units to complete M3120.1 Crime Scene Investigation to meet industry requirements.

M3120.1	Crime Scene Investigation
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This major can only be taken with MT3022 Forensic Science

Enrolment in elective units is subject to meeting any required criteria for individual units, such as co-requisites and pre-requisites. Students should note that either 700125 Cell Biology or 700122 Essential Chemistry 2 (depending on testamur major chosen) will be considered an elective unit.

Diploma in Science (exit only)

7084.4

The Diploma in Science is available as an exit point only from 6004/6043 -Diploma in Science/Bachelor of Science or 6002/6042 - Diploma in Science/Bachelor of Medical Science

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 1, 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 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. The Diploma is delivered via extended face to face hours in smaller learning environments.

Students who successfully complete the Diploma in Science will articulate into:

Bachelor of Sustainable Agriculture and Food Security or Bachelor of Science (Zoology, Animal Science, Biology, Ecology, Environmental Futures, Environmental Health, Microbiology, Nutrition and Food Science, Forensic Science, Forensic Biology, Forensic Chemistry, Mathematics, Data Science and Applied Physics) or Bachelor of Medical Science (Medicinal Chemistry or Anatomy and Physiology or Biomedical Science) 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
The College - Nirimba Education Precinct	Part Time	Internal

Admission

This course is an exit award only

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 with 70% or higher 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

This course is an exit award only

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 pass the following six University level units:

700125.3 Cell Biology (WSTC)
700122.3 Essential Chemistry 2 (WSTC)
700124.3 Scientific Literacy (WSTC)
700155.3 Introductory Chemistry (WSTC)
700095.3 Biodiversity (WSTC)

700123.3 Quantitative Thinking (WSTC)

Students must pass two of the following seven University level units:

- 700296.1** Environmental Issues and Solutions (WSTC)
- 700297.1** Management of Aquatic Environments (WSTC)
- 700295.1** Concepts in Human Physiology (WSTC)
- 700266.2** Concepts in Human Anatomy (WSTC)
- 700265.2** Food Science 1 (WSTC)
- 700061.4** Introduction to Human Biology (WSTC)
- 700298.1** Water Quality Assessment and Management (WSTC)

Diploma in Science Extended - Medical Science

7120.4

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 2020, term 1 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**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.

Qualification for this award requires the successful completion of 130 CPs which include the units listed in the pathways below

Recent School Leavers

A7266.1	WSTC Science Extended - Medical Science - Recent School Leavers
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Non-Credentialed Students

A7267.1	WSTC Science Extended - Medical Science - Non-Credentialed
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International Students

A7268.1	WSTC Science Extended - Medical Science - International
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Diploma in Science Extended - Science

7122.3

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 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 course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

This course provides students with a guaranteed pathway into the Bachelor of Science degree at Western Sydney University with up to 80 credit points of advanced standing. The Diploma is delivered via extended face to face hours in smaller learning environments.

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 18 years or over and can demonstrate a minimum level of English language competence.

Applicants who are 17 years of age will be eligible for an offer if they have completed the HSC or other Year 12 studies or equivalent.

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.

Qualification for this award requires the successful completion of 130 CPs which include the units listed in the pathways below

Recent School Leavers

A7269.1 WSTC Science Extended - Science - Recent School Leavers

Non-credentialed Students

A7270.1 WSTC Science Extended - Science - Non-Credentialed Students

International Students

A7271.1 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

700125.3 Cell Biology (WSTC)
700122.3 Essential Chemistry 2 (WSTC)
700124.3 Scientific Literacy (WSTC)

Choose one of

700121.4 Essential Chemistry 1 (WSTC)
700155.3 Introductory Chemistry (WSTC)

Bachelor of Science (Forensic Science or Chemistry) students must choose 700121 Essential Chemistry 1 (WSTC).

Choose one of

700095.3 Biodiversity (WSTC)
700035.5 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

700033.5 Biometry (WSTC)
700123.3 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

700266.2 Concepts in Human Anatomy (WSTC)
700295.1 Concepts in Human Physiology (WSTC)

Students progressing to Bachelor of Natural Science (Animal Science or Environmental Management) or Bachelor of Science (Chemistry) must choose

700096.4 Integrated Science (WSTC)
700099.3 Resource Sustainability (WSTC)

Students progressing to Bachelor of Science must choose

700096.4 Integrated Science (WSTC)
700295.1 Concepts in Human Physiology (WSTC)

Students progressing to Bachelor of Science (Forensic Science) must choose

700266.2 Concepts in Human Anatomy (WSTC)
700096.4 Integrated Science (WSTC)

Students progressing to Bachelor of Science (Biological Sciences) must choose

700295.1 Concepts in Human Physiology (WSTC)

And choose one of

700096.4 Integrated Science (WSTC)
700099.3 Resource Sustainability (WSTC)

Students progressing to Bachelor of Science (Nutrition and Food) must choose

700295.1 Concepts in Human Physiology (WSTC)
700265.2 Food Science 1 (WSTC)

Students progressing to Bachelor of Science (Environmental Science) must choose

700099.3 Resource Sustainability (WSTC)

And choose one of

700096.4 Integrated Science (WSTC)
700295.1 Concepts in Human Physiology (WSTC)

Students progressing to Bachelor of Science (Zoology) must choose any two of

700096.4 Integrated Science (WSTC)
700295.1 Concepts in Human Physiology (WSTC)
700099.3 Resource Sustainability (WSTC)

Replaced Units

The units listed below count towards completion of this course for students who passed these units in 2019 or earlier.

700098.3 Introduction to Physiology (WSTC)

Undergraduate Certificate in Environmental Sustainability

7175.2

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 2021 or later.

The Undergraduate Certificate in Environmental Sustainability will combine social, economic, cultural and political elements of environmental challenges and examine processes and relationships that underpin environmental sustainability in different landscapes. Solving the world's environmental problems will require workers on various levels who are trained in these issues and who understand the wider contexts of the challenges faced.

Study Mode

Six months full-time.

Location**Campus Attendance Mode**

Online Full Time Multi Modal

Admission

This short course is available to Australian Citizens and Permanent Residents who are aged 17 years or over.

For more information on applying please see the link to The College admission pages below.

Course Structure

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

- 500050.1** Biodiversity (UG Cert)
- 500051.1** Management of Aquatic Environments (UG Cert)
- 500052.1** Water Quality Assessment and Management (UG Cert)
- 500053.1** Environmental Issues and Solutions (UG Cert)

Specialisations

The College Admission Pathway - WSTC Science Extended - Medical Science - Recent School Leavers

A7266.1

Location

Campus	Mode
The College - Nirimba Education Precinct	Internal

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

700287.1	Interpreting Data In Science (WSTC Prep)
700230.2	Academic Skills for 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)
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Level 1 units

700124.3	Scientific Literacy (WSTC)
700095.3	Biodiversity (WSTC)

Term 3 of Study

700122.3	Essential Chemistry 2 (WSTC)
700295.1	Concepts in Human Physiology (WSTC)
700266.2	Concepts in Human Anatomy (WSTC)

Term 4 of Study

700125.3	Cell Biology (WSTC)
700155.3	Introductory Chemistry (WSTC)
700123.3	Quantitative Thinking (WSTC)

The College Admission Pathway - WSTC Science Extended - Medical Science - Non-Credentialed

A7267.1

Location

Campus	Mode
The College - Nirimba Education Precinct	Multi Modal

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

700287.1	Interpreting Data In Science (WSTC Prep)
700230.2	Academic Skills for 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)
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Level 1 units

700124.3	Scientific Literacy (WSTC)
700095.3	Biodiversity (WSTC)

Term 3 of Study

700122.3	Essential Chemistry 2 (WSTC)
700295.1	Concepts in Human Physiology (WSTC)
700266.2	Concepts in Human Anatomy (WSTC)

Term 4 of Study

700125.3	Cell Biology (WSTC)
700155.3	Introductory Chemistry (WSTC)
700123.3	Quantitative Thinking (WSTC)

The College Admission Pathway - WSTC Science Extended - Medical Science - International

A7268.1

Location

Campus	Mode
The College - Nirimba Education Precinct	Internal

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

700287.1	Interpreting Data In Science (WSTC Prep)
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)

Term 2 of Study

Level Z units

700043.3	Chemistry (WSTC Prep)
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Level 1 units

700124.3	Scientific Literacy (WSTC)
700095.3	Biodiversity (WSTC)

Term 3 of Study

700122.3	Essential Chemistry 2 (WSTC)
700295.1	Concepts in Human Physiology (WSTC)
700266.2	Concepts in Human Anatomy (WSTC)

Term 4 of Study

700125.3	Cell Biology (WSTC)
700155.3	Introductory Chemistry (WSTC)
700123.3	Quantitative Thinking (WSTC)

The College Admission Pathway - WSTC Science Extended - Science - Recent School Leavers

A7269.1

Location

Campus	Mode
The College - Nirimba Education Precinct	Internal

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

700287.1	Interpreting Data In Science (WSTC Prep)
700230.2	Academic Skills for 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)
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Level 1 units

700124.3	Scientific Literacy (WSTC)
700095.3	Biodiversity (WSTC)

Term 3 of Study

700122.3	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)

700296.1	Environmental Issues and Solutions (WSTC)
700297.1	Management of Aquatic Environments (WSTC)
700295.1	Concepts in Human Physiology (WSTC)
700061.4	Introduction to Human Biology (WSTC)
700266.2	Concepts in Human Anatomy (WSTC)
700265.2	Food Science 1 (WSTC)
700298.1	Water Quality Assessment and Management (WSTC)

(700265 Food Science 1 and 700298 Water Quality Assessment and Management is to be studied in Spring at Hawkesbury campus)

Term 4 of Study

700125.3	Cell Biology (WSTC)
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700155.3 Introductory Chemistry (WSTC)
700123.3 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 - Non-Credentialed Students

A7270.1

Location

Campus	Mode
The College - Nirimba Education Precinct	Internal

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

700287.1 Interpreting Data In Science (WSTC Prep)
700230.2 Academic Skills for 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)

Level 1 units

700124.3 Scientific Literacy (WSTC)
700095.3 Biodiversity (WSTC)

Term 3 of Study

700122.3 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)

700296.1 Environmental Issues and Solutions (WSTC)
700297.1 Management of Aquatic Environments (WSTC)
700295.1 Concepts in Human Physiology (WSTC)
700061.4 Introduction to Human Biology (WSTC)
700266.2 Concepts in Human Anatomy (WSTC)
700265.2 Food Science 1 (WSTC)
700298.1 Water Quality Assessment and Management (WSTC)

(700265 Food Science 1 and 700298 Water Quality Assessment and Management is to be studied in Spring at Hawkesbury campus)

Term 4 of Study

700125.3 Cell Biology (WSTC)
700155.3 Introductory Chemistry (WSTC)
700123.3 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 - International Students

A7271.1

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

700287.1 Interpreting Data In Science (WSTC Prep)
700270.1 English for International Students 1 (WSTC Prep)
700230.2 Academic Skills for 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)

Level 1 units

700124.3 Scientific Literacy (WSTC)
700095.3 Biodiversity (WSTC)

Term 3 of Study

700122.3 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)

700296.1 Environmental Issues and Solutions (WSTC)
700297.1 Management of Aquatic Environments (WSTC)
700295.1 Concepts in Human Physiology (WSTC)
700061.4 Introduction to Human Biology (WSTC)
700266.2 Concepts in Human Anatomy (WSTC)
700265.2 Food Science 1 (WSTC)

700298.1 Water Quality Assessment and Management (WSTC)

(700265 Food Science 1 and 700298 Water Quality Assessment and Management is to be studied in Spring at Hawkesbury campus)

Term 4 of Study

700125.3 Cell Biology (WSTC)
700155.3 Introductory Chemistry (WSTC)
700123.3 Quantitative Thinking (WSTC)

Students will graduate with the Diploma after gaining a passing grade in all of the above units.

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
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

102805.1 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

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'

Equivalent Specialisation Units

The Level 3 unit listed below counts towards completion of the Major for students who successfully completed the unit in 2019 or earlier.

100961 - Humanities Internship

The Level 1 unit listed below counts towards completion of the Major for students who successfully completed the unit in Autumn 2020 or earlier.

101878 - Indigenous Landscapes

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
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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

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
102529.2	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
101468.2	Islam, Media and Conflict
102781.1	Labour and Culture
102789.1	Philosophy of Race and Racism
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
 The Level 3 unit listed below counts towards completion of the Major for students who successfully completed the unit in 2019 or earlier.
 100961 - Humanities Internship

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
101907.1	Introduction to Literary Studies
101909.1	Methods of Reading
102765.1	The Value of Literature

The unit listed below counts as a compulsory unit towards completion of this Major for students who passed this unit in 2019 or earlier.

101976 - English Literature After 1830

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
101909.1	Methods of Reading
102765.1	The Value of Literature

The unit listed below counts as a compulsory unit towards completion of this Major for students who passed this unit in 2019 or earlier.

101976 - English Literature After 1830

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
102626.1	Medieval and Early Modern Literature
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
102772.1	Writing and Reading Sci-Fi and Fantasy
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
102205.2	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
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
101670.3	Writing and Society
100895.4	Writing For Performance
101011.3	Writing Poetry

Please note

The Level 2 and 3 units listed below count towards completion of this Major for students who passed these units in 2016 or earlier.

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

The Level 3 units listed below count towards completion of this Major for students who passed these units in 2019 or earlier.

100961 - Humanities Internship

101908 - Writing and Reading Sci Fi and Fantasy

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.

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

102768.1	When Worlds Collide: European Empires and the World, c.1600-1950
102000.1	Modern European History and Politics
101992.1	Religion and the Emergence of Modern Politics
102766.1	Historical Methodologies

Important Note: To meet NESA subject area teaching requirements students who wish to teach modern history must include one unit of Ancient History. This may be attained by approved cross-institutional study, by completing the level 3 unit 102492 Catastrophe: The Environmental History of the Ancient and Modern World, or by completing the level 2 unit 100244 Ancient Western Culture: Periclean Athens. It is also strongly recommended that students select at least one Australian history unit.

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
101967.1	Cultural History of Books and Reading
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
102479.1	Cultures of Crime and Punishment
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
102734.1	History of Religion
101991.1	History of Sexuality
100507.4	History of Modern China to 1949
102184.1	History of Muslim Civilisations and Ideas
101988.1	Human Rights and Culture
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
101913.2	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?

Equivalent Specialisation Units

The Level 2 and Level 3 units listed below count towards completion of the major for students who successfully completed the units 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
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
102006 - Histories of Crime and Punishment
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

The Level 1, Level 2 and Level 3 units listed below count towards completion of the major for students who successfully completed the units in 2019 or earlier.

Level 1

101910 - Global History

Level 2

101973 - Australian Politics
100861 - Empire: European Colonial Rule and its Subjects 1750-1920

Level 3

100961 - Humanities Internship
102522 - International Study Tours
102001 - Theories and Methods in History

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
102189.1	International Organisations and Global Governance
102190.1	International Relations of Southeast Asia
102193.1	International Special Study
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.

Level 1

101737 - World Politics: An Introduction

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?

The Level 3 units listed below count towards completion of the major for students who successfully completed the units in 2019 or earlier.

100961 - Humanities Internship
 102522 - International Study Tours

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
102823.1	Islam: Past, Present and Future
101911.2	The Qur'an: An Introduction

The remaining four units must be drawn from the following Level 2 and 3 unit pools

Equivalent Specialisation Unit

The Level 1 unit listed below counts towards completion of the major for students who successfully completed the units in 2020 or earlier.

101462 - Understanding Islam and Muslim Societies

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

101466.2	Ethical Traditions in Islam
102184.1	History of Muslim Civilisations and Ideas
102734.1	History of Religion
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

101359.7 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

The Level 3 units listed below count towards completion of the major for students who successfully completed the units in 2019 or earlier.

100961 - Humanities Internship
 102494 - Conceptualising Islam

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
100875.4 Literature and Philosophy
100275.4 Philosophies of Love and Death
102417.1 Philosophy and Environment
102493.1 Philosophy of History
102789.1 Philosophy of Race and Racism
101965.2 Philosophy of Religion
100969.2 Theories of Conflict and Violence
101913.2 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

The Level 3 unit listed below counts towards completion of the major for students who successfully completed the unit in 2019 or earlier.

100961 - Humanities Internship

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

Inherent Requirements

There are Inherent Requirements for this major, please check the information online.

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.

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

Major - Japanese

M1062.1

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

Inherent Requirements

There are inherent requirements for this major that you must meet in order to successfully complete the major. Make sure you read and understand the requirements for your course 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
102804.1 Japanese 204: Speaking and Listening

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

Equivalent Specialisations Units

The Specialisation unit listed below count towards completion of this major for students who passed this unit in Autumn 2020 or earlier.

102031 - Japanese 204

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; First Peoples and criminal 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

- 102709.2** Introduction to Criminal Justice

Spring session

- 102039.2** Crime, Deviance and Society

Year 2

Autumn session

- 102699.2** Youth Justice and Practice

Spring session

- 102708.2** Crime Prevention and Drugs

Please Note: In 2020, Sydney City Campus students should enrol in unit code 102038 instead of unit code 102708.

102038.2 Crime Prevention and Community

Choose one of

- 102712.2** First Peoples and Criminal Justice
102711.1 Prisons, Punishment and Criminal Justice

Please Note: In 2020, Sydney City Campus students should enrol in unit code 102036 instead of unit code 102711.

- 102036.2** Prisons, Punishment and Criminal Justice

Year 3**Autumn session**

- 102037.2** Perspectives in Criminology
101561.3 Gender, Crime and Violence

Spring session

Choose one of

- 102712.2** First Peoples and Criminal Justice
102710.1 Crime, Media, Culture

Please Note: In 2020, Sydney City Campus students should enrol in unit code 101562 instead of unit code 102710.

- 101562.4** Culture and Crime

Recommended Sequence - WSU Online**Year 1****Trimester 2**

- 102709.2** Introduction to Criminal Justice
102039.2 Crime, Deviance and Society

Trimester 3

- 102699.2** Youth Justice and Practice
102038.2 Crime Prevention and Community

Year 2**Trimester 4**

Choose one of

- 102036.2** Prisons, Punishment and Criminal Justice
102712.2 First Peoples and Criminal Justice

Trimester 5

- 102037.2** Perspectives in Criminology
101561.3 Gender, Crime and Violence

Trimester 6

Choose one of

- 101562.4** Culture and Crime
102712.2 First Peoples and Criminal Justice

Equivalent Specialisation Units

The Specialisation Units listed below count towards completion of this major for students who passed these units in 2019 or earlier.

- 102038 - Crime, Prevention and Community
 101562 - Culture & Crime
 101560 - Introduction to Crime and Criminal Justice
 400684 - Juvenile, Crime & Justice
 102036 - Prisons, Punishment and Criminal Justice

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**

- 101589.3** Cities: Introduction to Urban Studies

Year 2**Autumn Session**

- 101590.3** Cultural and Social Geographies

Spring Session

- 101591.3** The Economics of Cities and Regions
101646.3 Analysis of Spatial Data

Year 3**Autumn Session**

- 101593.4** Planning the City: Development, Community and Systems
101645.3 Transport, Access and Equity

Spring Session

- 101694.3** Geographies of Migration
101905.3 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 with a minimum of 30 credit points at Level 3

Year 1**Autumn session**

- 102787.1** Doing Sociology

Spring session

- 101886.2** Brave New World: Negotiating Social Change in the 21st Century

Year 2**Autumn session**

- 101610.3** Health, Illness and Biomedicine: A Sociological Perspective
101612.4 Identity and Belonging

Spring session

- 102143.2** Families and Intimate Life
102788.1 Self and Society

Year 3**Autumn session**

- 101611.3** Home and Away: Ethnicity and Migration in Australia
101359.7 Sociology of Religion

Spring session

- 102733.1** Genders and sexualities: beyond the binary

Please note: From Spring 2020, unit 101330 Self and Society replaced by unit 102788 Self and Society.

Please note: From Autumn 2021, unit 102039 Crime, Deviance and Society replaced by unit 102787 Doing Sociology.

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
Parramatta Campus - Victoria Road	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
102326.2	Indonesian 102

Level 2 units

102319.2	Indonesian 201
102327.1	Indonesian 202

Level 3 units

102773.1	Indonesian 301
102774.1	Indonesian 302
102775.1	Indonesian 303
102776.1	Indonesian 304
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

Equivalent Specialisation Units

The Specialisation Units listed below count towards completion of this major for students who passed these units in 2019 or earlier.

102320 - Indonesian 301: Indonesian for Academic Purposes

102328 - Indonesian 302: Indonesian for Professional Purposes

102329 - Indonesian 303: Indonesian for Business

102330 - Indonesian 304: Contemporary Indonesia

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 Oceania, 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

102344.2	Different Ways of Being in the World: Introduction to Social Anthropology
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Spring session

102345.2	Global Structures, Local Cultures
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Year 2

Autumn Session

101612.4	Identity and Belonging
102346.2	Ethnographies of Southeast Asia and the Pacific

Spring session

102844.1	Society, Culture and Human Diversity
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Year 3

Autumn Session

102348.2	Power as a Cultural System
102349.2	The Anthropologies of Gender and Sexualities

Spring session

101905.3	Indigenous Cultures: A Global Perspective
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Equivalent Specialisation Units

The specialisation units listed below count towards completion of this major for students who passed these units in 2020/21 or earlier.

102347 - Anthropologies of the Everyday

Major - Psychological Studies

M1110.1

The Psychological Studies major comprises units in the discipline of psychology that focus on the field of inquiry that uses scientific techniques and methods to understand and explain behaviour and experience. Areas of study include: the brain and behaviour, learning, motivation and emotion, social psychology, lifespan development, perception, and cognitive processes. A Psychological Studies major does not meet APAC requirements for an accredited sequence in Psychology. Students wishing to enrol in an accredited Psychology sequence should complete the Psychology key program of 160 credit points.

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 below with no less than three Level 3 units.

Students must complete the following two compulsory units

101184.4	Psychology: Human Behaviour
101183.4	Psychology: Behavioural Science

And 60 credit points from the Level 2/3 pool with no less than three units at Level 3

Level 2 unit pool

101684.5	Brain and Behaviour
100013.4	Experimental Design and Analysis
101676.4	Human Learning
101680.5	Perception

Level 3 unit pool

101681.6	Abnormal Psychology
101689.4	Advanced Research Methods
101677.5	Cognitive Processes
101682.7	Developmental Psychology
101193.5	Health Psychology
100015.7	History and Philosophy of Psychology
101678.5	Motivation and Emotion
101679.4	Personality
102350.3	Psychology and the Online World
100023.7	Psychology of Language
101683.4	Social Psychology

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
102626.1	Medieval and Early Modern Literature
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
102772.1	Writing and Reading Sci-Fi and Fantasy
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
102205.2	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
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
101670.3	Writing and Society
100895.4	Writing For Performance
101011.3	Writing Poetry

Please note

The Level 2 and 3 units listed below count towards completion of this Major for students who passed these units in 2016 or earlier.

Level 2 units

101869 - Studies in Postcolonial Literature

Level 3 units

101966 - Literatures of Decolonisation

The Level 3 units listed below count towards completion of this Major for students who passed these units in 2019 or earlier.

100961 - Humanities Internship

101908 - Writing and Reading Sci Fi and Fantasy

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.

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
101948.4	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
100023.7 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 - Culture and Society**M1131.1**

Culture and Society 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
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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

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
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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 units

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
102529.2	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
101468.2	Islam, Media and Conflict
102781.1	Labour and Culture
102789.1	Philosophy of Race and Racism
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?

Major - International English

M1132.1

International English engages students in a systematic and structured study of the English language and its variations across time and contexts. Students learn to recognise and work with the uses and features of the language that are essential to a wide range of social, academic and professional contexts. The major provides a solid and comprehensive foundation for students who aim to work professionally with English in different contexts and countries, especially those intending to pursue post-graduate qualifications in education. The major focuses on varieties and structures of English, informed by studies of English in specific discourse settings, and specifically aims to ensure that students understand the language and its

use very well and that they possess a highly developed capacity to use English well across a range of contexts.

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
102812.1	English Text
102813.1	English Talk

And four units from the following, with at least 2 at level 3.

Level 1 Pool

101945.2	Introduction to Linguistics
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Level 2 Pool

102489.1	Meaning in Language
102490.1	Pragmatics
101948.4	Structure of Language
102414.1	Working Grammar
102474.1	TESOL Teaching Methodology

Level 3 Pool

101451.2	Second Language Acquisition
101450.2	Sociolinguistics
102477.1	TESOL Curriculum Design
101950.1	Intercultural Communication

Major - History and Political Thought

M1137.1

Since the revival of humanist thought in the Renaissance, universities have placed studies in history and political thought at the centre of intellectual inquiry. History and politics have always examined contentious issues. Students learn to deal with conflicting information, appreciate the different ways societies have resolved issues in the past and develop skills that enable them to become responsible and active citizens. The History and Political Thought major has four compulsory units which introduce the student to historical periods from the Ancient World to the 20th century, culminating in a capstone unit that discusses the development of historical methodology from ancient times to the present. The remaining four units can be selected from a pool that encompasses political thought and historical developments across time and space, enabling students to select fields of particular interest.

Location

Campus	Mode
Bankstown Campus	Internal

Campus

Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Mode

Specialisation Structure

Students must complete eight units (80 credit points) as follows

Students must complete the following compulsory units

102766.1	Historical Methodologies
102814.1	History of the Ancient World
102000.1	Modern European History and Politics
102768.1	When Worlds Collide: European Empires and the World, c.1600-1950

Students must also complete four units from the following pools with a minimum of two units at Level 3.

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
101967.1	Cultural History of Books and Reading
100001.3	Keeping the Past
101797.2	Political Terror
100882.3	Politics of Sex and Gender
101992.1	Religion and the Emergence of Modern Politics
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
102835.1	Catastrophe: The Environmental History of the Ancient 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
102734.1	History of Religion
101991.1	History of Sexuality
100507.4	History of Modern China to 1949
102184.1	History of Muslim Civilisations and Ideas
102842.1	History of the People's Republic of China

101988.1	Human Rights and Culture
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
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
101913.2	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?

Equivalent Specialisation Unit

The Specialisation unit listed below count towards completion of this major for students who passed this unit in 2021 or earlier.

63178 - Social and Political Developments in Contemporary China

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
200924.3	Cost Benefit Analysis
200048.3	Financial Institutions and Markets
200815.2	Globalisation and Sustainability
200925.1	Growth, Cycles and Crises
200926.1	Macroeconomic Measures and Models
200549.3	The Australian Macroeconomy

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.

200924.3	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
200864.2	Managing in the Global Environment
200915.3	The Service Enterprise

Major - Crime Scene Investigation

M3120.1

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 NOTE : This major can only be taken with enrolment in MT3022 Forensic Science.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

NOTE: This major can only be taken with enrolment in MT3022 Forensic Science.

Students must complete the following eight core units as follows:

Level 1

300806.2	Forensic Science
300874.3	Digital Forensic Photography

Level 2

300873.3	Crime Scene Investigation
401171.2	Imaging Science

Level 3

300981.2	Environmental Forensic Investigations
300868.2	Forensic Chemistry
301120.3	Forensic Anthropology
401170.3	Forensic Biology

Major - Natural Science

M4016.1

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Start-year Intake

Year 1

Autumn session

300804.2	Feeding the Planet
300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry

Spring session

300823.2	Soils
300831.4	Quantitative Thinking
300805.2	Food Science 1
301096.2	Horticultural Production Systems

Year 2

Autumn session

301097.2	Greenhouse Technology for Food Sustainability
300840.2	Environmental Planning and Climate Change
300931.2	Integrated Science

And one elective

Spring session

300791.2	Sustainable Food Production
300790.2	Agriculture, Food and Health
300932.2	Natural Science Research Methods
300816.2	Cell Biology

Year 3

1H/Autumn session

300913.2	Field Project 1
301098.2	Analysis of Agricultural Supply and Demand
300921.2	Plant Health and Biosecurity

Choose one of

300845.2	Genetics
300865.2	Plant Physiology

2H/Spring session

300914.2	Field Project 2
300870.2	Water in the Landscape
300869.2	Postharvest

Biological Farming Systems (AGR306) - in partnership with Charles Sturt University

Mid-year Intake

Year 1

Spring session

300805.2	Food Science 1
301096.2	Horticultural Production Systems
300811.2	Scientific Literacy

And one elective

Autumn session

300804.2	Feeding the Planet
300802.3	Biodiversity
300808.3	Introductory Chemistry
300831.4	Quantitative Thinking

Year 2

Spring session

300791.2	Sustainable Food Production
300790.2	Agriculture, Food and Health
300932.2	Natural Science Research Methods
300823.2	Soils

1H/Autumn session

300913.2	Field Project 1
301097.2	Greenhouse Technology for Food Sustainability
300931.2	Integrated Science

And one elective

Year 3

2H/Spring session

300914.2	Field Project 2
300870.2	Water in the Landscape
300869.2	Postharvest

Biological Farming Systems (AGR306) - in partnership with Charles Sturt University

Autumn session

300840.2	Environmental Planning and Climate Change
301098.2	Analysis of Agricultural Supply and Demand
300921.2	Plant Health and Biosecurity

Choose one of

300845.2	Genetics
300865.2	Plant Physiology

Major - Social Sciences

M4017.1

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Start-year Intake

Year 1

Autumn session

300804.2	Feeding the Planet
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300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry

Spring session

300823.2	Soils
300831.4	Quantitative Thinking
300805.2	Food Science 1
301096.2	Horticultural Production Systems

Year 2

Autumn session

301097.2	Greenhouse Technology for Food Sustainability
300840.2	Environmental Planning and Climate Change
101331.3	Issues in World Development: Rich World, Poor World

Communication Project Management (COM 343) - in partnership with Charles Sturt University

Spring session

300791.2	Sustainable Food Production
300790.2	Agriculture, Food and Health
300932.2	Natural Science Research Methods
102212.3	Internship and Community Engagement

Year 3

1H/Autumn session

300913.2	Field Project 1
301098.2	Analysis of Agricultural Supply and Demand
101569.3	Sustainable Futures
101593.4	Planning the City: Development, Community and Systems

2H/Spring session

300914.2	Field Project 2
300961.4	Social Computing
101595.3	Community and Social Action
101591.3	The Economics of Cities and Regions

Mid-year Intake

Year 1

Spring session

300805.2	Food Science 1
301096.2	Horticultural Production Systems
300811.2	Scientific Literacy

And one elective

1H/Autumn session

300804.2	Feeding the Planet
300802.3	Biodiversity
300808.3	Introductory Chemistry
300831.4	Quantitative Thinking

Year 2**Spring session**

300791.2	Sustainable Food Production
300790.2	Agriculture, Food and Health
300932.2	Natural Science Research Methods
300823.2	Soils

1H/Autumn session

300913.2	Field Project 1
301097.2	Greenhouse Technology for Food Sustainability
101331.3	Issues in World Development: Rich World, Poor World

Communication Project Management (COM 343) - in partnership with Charles Sturt University

Year 3**2H/Spring session**

300914.2	Field Project 2
300961.4	Social Computing
101595.3	Community and Social Action
101591.3	The Economics of Cities and Regions

Autumn session

300840.2	Environmental Planning and Climate Change
301098.2	Analysis of Agricultural Supply and Demand
101569.3	Sustainable Futures
101593.4	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**

300804.2	Feeding the Planet
300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry

Spring session

300823.2	Soils
300831.4	Quantitative Thinking
300805.2	Food Science 1
301096.2	Horticultural Production Systems

Year 2**Autumn session**

301097.2	Greenhouse Technology for Food Sustainability
300840.2	Environmental Planning and Climate Change
200083.2	Marketing Principles
200525.3	Principles of Economics

Spring session

300791.2	Sustainable Food Production
300790.2	Agriculture, Food and Health
300932.2	Natural Science Research Methods
200084.2	Consumer Behaviour

Year 3**1H/Autumn session**

300913.2	Field Project 1
301098.2	Analysis of Agricultural Supply and Demand
200862.1	Creating Change and Innovation
200088.3	Brand and Product Management

2H/Spring session

300914.2	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**

300805.2	Food Science 1
301096.2	Horticultural Production Systems
300811.2	Scientific Literacy
200084.2	Consumer Behaviour

Autumn session

300804.2	Feeding the Planet
300831.4	Quantitative Thinking
300802.3	Biodiversity
300808.3	Introductory Chemistry

Year 2**Spring session**

300791.2	Sustainable Food Production
300790.2	Agriculture, Food and Health
300932.2	Natural Science Research Methods
300823.2	Soils

1H/Autumn session

300913.2	Field Project 1
301097.2	Greenhouse Technology for Food Sustainability
200083.2	Marketing Principles
200525.3	Principles of Economics

Year 3**2H/Spring session**

300914.2	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

300840.2	Environmental Planning and Climate Change
301098.2	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
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200488.6	Corporate Financial Management
200079.3	Derivatives
200916.1	Economic and Financial Modelling
200048.3	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
200917.2	Innovation, Enterprise and Society
200914.1	Working in Professions

Choose one of

200052.7	Introduction to Economic Methods
200032.7	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
200910.2	Financing Enterprises
200048.3	Financial Institutions and Markets

Choose one of

200052.7	Introduction to Economic Methods
200032.7	Statistics for Business

Spring session

200912.1	Enterprise Leadership
200488.6	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
200917.2 Innovation, Enterprise and Society

And one elective

Spring session

200921.1 Security Analysis and Business Valuation

Enterprise Engaged Unit

200537.4 Economics and Finance Engagement Project

And two electives

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

200909.2 Enterprise Law
200048.3 Financial Institutions and Markets

Spring session

200911.1 Enterprise Innovation and Markets
200910.2 Financing Enterprises

Year 2**Autumn session**

200488.6 Corporate Financial Management

Choose one of

200052.7 Introduction to Economic Methods
200032.7 Statistics for Business

Spring session

200912.1 Enterprise Leadership

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
200917.2 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****Mode**

Parramatta City Campus-Macquarie Street 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
200924.3	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
200549.3	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
200917.2	Innovation, Enterprise and Society
200914.1	Working in Professions

Choose one of

200052.7	Introduction to Economic Methods
200032.7	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
200910.2	Financing Enterprises
200922.1	Consumers, Firms and Markets

Choose one of

200052.7	Introduction to Economic Methods
200032.7	Statistics for Business

Spring session

200549.3	The Australian Macroeconomy
200912.1	Enterprise Leadership
200911.1	Enterprise Innovation and Markets

And one elective

Year 2

Autumn session

200924.3	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
200917.2	Innovation, Enterprise and Society

And one elective

Spring session

200925.1	Growth, Cycles and Crises
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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
200911.1	Enterprise Innovation and Markets

Spring session

200910.2	Financing Enterprises
200922.1	Consumers, Firms and Markets

Year 2

Autumn session

200549.3	The Australian Macroeconomy
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Choose one of

200052.7	Introduction to Economic Methods
200032.7	Statistics for Business

Spring session

200912.1	Enterprise Leadership
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And one elective

Year 3

Autumn session

200924.3	Cost Benefit Analysis
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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****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
200917.2 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

200614.3	Enterprise Industrial Relations
200740.5	Human Resource and Industrial Relations Strategy
200859.1	Human Resource Development
200621.3	International Human Resource Management
200300.2	Managing People at Work
200613.3	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
301123.2	Management Analytics
200376.4	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**

200910.2	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
301123.2	Management Analytics

And one elective

Year 2**Autumn session**

200614.3	Enterprise Industrial Relations
200621.3	International Human Resource Management

And two electives

Spring session

200739.2	Reward and Performance Management
200376.4	Managing and Developing Careers

And two electives

Year 3**Autumn session**

200860.1	People, Work and Society
200613.3	Negotiation, Bargaining and Advocacy
200919.1	Innovation and Professional Practice

And one elective

Spring session

200740.5	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**

200910.2	Financing Enterprises
200912.1	Enterprise Leadership

Spring session

301123.2	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
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And one elective

Year 3**Autumn session**

200614.3	Enterprise Industrial Relations
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And one elective

Spring session

200376.4	Managing and Developing Careers
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And one elective

Year 4**Autumn session**

200621.3	International Human Resource Management
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And one elective

Spring session

200739.2	Reward and Performance Management
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And one elective

Year 5**Autumn session**

200860.1	People, Work and Society
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And one elective

Spring session

200919.1	Innovation and Professional Practice
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And one elective

Year 6**Autumn session**

200613.3	Negotiation, Bargaining and Advocacy
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And one elective

Spring session

200740.5	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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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

200589.3	Export Strategy and Applications
200815.2	Globalisation and Sustainability
200626.3	International Business Strategy
200094.4	International Marketing
200591.2	Introduction to International Business
200863.1	Leadership and Entrepreneurship
200864.2	Managing in the Global Environment
200098.4	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
200032.7	Statistics for Business
200915.3	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
200032.7	Statistics for Business

Spring session

200909.2	Enterprise Law
200910.2	Financing Enterprises
200864.2	Managing in the Global Environment

And one elective

Year 2

Autumn session

200915.3	The Service Enterprise
200815.2	Globalisation and Sustainability

And two electives

Spring session

200589.3	Export Strategy and Applications
200098.4	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

200626.3	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

200910.2	Financing Enterprises
200912.1	Enterprise Leadership

Year 2**Autumn session**

200591.2 Introduction to International Business
200032.7 Statistics for Business

Spring session

200864.2 Managing in the Global Environment

And one elective

Year 3**Autumn session**

200815.2 Globalisation and Sustainability

And one elective

Spring session

200915.3 The Service Enterprise

And one elective

Year 4**Autumn session**

200589.3 Export Strategy and Applications

And one elective

Spring session

200098.4 The Markets of Asia

And one elective

Year 5**Autumn session**

200094.4 International Marketing
200863.1 Leadership and Entrepreneurship

Spring session

200918.1 Design Thinking for Creativity

And one elective

Year 6**Autumn session**

200626.3 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
200864.2	Managing in the Global Environment
200865.2	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
301123.2	Management Analytics
200376.4	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**

200910.2	Financing Enterprises
200912.1	Enterprise Leadership
200911.1	Enterprise Innovation and Markets
200585.4	Organisational Behaviour

Spring session

200909.2	Enterprise Law
301123.2	Management Analytics
200864.2	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

200865.2	Managing Operations
200157.4	Organisational Learning and Development
200376.4	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**

200910.2	Financing Enterprises
200912.1	Enterprise Leadership

Spring session

200909.2	Enterprise Law
301123.2	Management Analytics

Year 2**Autumn session**

200911.1	Enterprise Innovation and Markets
200585.4	Organisational Behaviour

Spring session

200864.2	Managing in the Global Environment
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And one elective

Year 3**Autumn session**

200158.4	Business, Society and Policy
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And one elective

Spring session

200865.2	Managing Operations
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And one elective

Year 4**Autumn session**

200862.1	Creating Change and Innovation
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And one elective

Spring session

200376.4	Managing and Developing Careers
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And one elective

Year 5**Autumn session**

200863.1	Leadership and Entrepreneurship
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And one elective

Spring session

200157.4	Organisational Learning and Development
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And one elective

Year 6**Autumn session**

200919.1	Innovation and Professional Practice
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And one elective

Spring session

200587.2	Strategic Management
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Enterprise Engaged Unit

200568.3	Contemporary Management Issues
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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
200032.7	Statistics for Business
200915.3	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
200032.7	Statistics for Business

Spring session

200910.2	Financing Enterprises
200909.2	Enterprise Law
200084.2	Consumer Behaviour

And one elective

Year 2

Autumn session

200915.3	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
200032.7 Statistics for Business

Year 2**Autumn session**

200912.1 Enterprise Leadership
200084.2 Consumer Behaviour

Spring session

200910.2 Financing Enterprises

And one elective

Year 3**Autumn session**

200915.3 The Service Enterprise

And one elective

Spring session

200086.3 Marketing Communications

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

200992.2	Food and Beverage Management
200995.2	Hospitality and Tourism in Practice
200989.2	Hospitality Places and Spaces
200994.2	Hospitality Profitability and Entrepreneurship
200991.1	Service Industry Analytics
200990.1	Special Event Management
200993.2	The Accommodation Industry
200988.2	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
200561.4	Hospitality Management Applied Project
200032.7	Statistics for Business
200915.3	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
200988.2	The Business of Hospitality
200032.7	Statistics for Business

Spring session

200909.2	Enterprise Law
200910.2	Financing Enterprises
200992.2	Food and Beverage Management

And one elective

Year 2**Autumn session**

200915.3	The Service Enterprise
200993.2	The Accommodation Industry
200990.1	Special Event Management

And one elective

Spring session

200989.2	Hospitality Places and Spaces
200918.1	Design Thinking for Creativity

And two electives

Year 3**Autumn session**

200991.1	Service Industry Analytics
200994.2	Hospitality Profitability and Entrepreneurship

And two electives

Spring session

200995.2	Hospitality and Tourism in Practice
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Enterprise Engaged Unit

200561.4	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

200910.2	Financing Enterprises
200032.7	Statistics for Business

Year 2**Autumn session**

200988.2	The Business of Hospitality
200912.1	Enterprise Leadership

Spring session

200992.2	Food and Beverage Management
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And one elective

Year 3**Autumn session**

200915.3	The Service Enterprise
200993.2	The Accommodation Industry

Spring session

200994.2	Hospitality Profitability and Entrepreneurship
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And one elective

Year 4**Autumn session**

200990.1	Special Event Management
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And one elective

Spring session

200989.2	Hospitality Places and Spaces
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And one elective

Year 5**Autumn session**

Two electives

Spring session

200918.1	Design Thinking for Creativity
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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

200995.2	Hospitality and Tourism in Practice
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Enterprise Engaged Unit

200561.4	Hospitality Management Applied Project
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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
201079.1	Sport and Society
200996.1	Sport Entertainment
200998.1	Strategic Sport Leadership
201000.1	The World of Sport Business

Note: From 2021 unit 200999 Sport and Society replaced by 201079 Sport and Society.

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
200032.7	Statistics for Business
200915.3	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
200032.7	Statistics for Business

Spring session

200910.2	Financing Enterprises
200909.2	Enterprise Law
200996.1	Sport Entertainment

And one elective

Year 2

Autumn session

200915.3	The Service Enterprise
201079.1	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

200910.2	Financing Enterprises
200912.1	Enterprise Leadership

Year 2**Autumn session**

201000.1 The World of Sport Business
200032.7 Statistics for Business

Spring session

200996.1 Sport Entertainment

And one elective

Year 3**Autumn session**

200915.3 The Service Enterprise
201079.1 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

Replaced Units

The core unit listed below counts towards completion of this course for students who passed this unit in 2020 or earlier.

200999 - Sport and Society

Major - Zoology**MT3014.1**

A Zoology Major provides you with the opportunity to study Australia's unique animals and their habitats. Zoologists have a detailed understanding of the diversity of the animal kingdom and are equipped with scientific understanding of how animals function and interact with their environment: ranging from their ecology, behaviour and evolution, to the physiology and biochemistry of cells, tissues and major organ systems. Zoology underpins conservation and sustainability, including major contributions to current research in climate change and ecosystem management. 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 with an abundance of native wildlife. Zoologists graduate with practical laboratory and fieldwork skills that prepare them for a wide variety of vocations in this field. 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.

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**

300811.2 Scientific Literacy
300802.3 Biodiversity
300808.3 Introductory Chemistry
300813.2 Wildlife Studies

Spring session

300816.2 Cell Biology
301256.1 Invertebrate Zoology

Choose one of

300831.4 Quantitative Thinking
300672.3 Mathematics 1A
200263.6 Biometry

And one elective

Year 2

Autumn session

- 300932.2** Natural Science Research Methods
301257.1 Vertebrate Zoology
301253.1 Evolution and Genetics

And one elective

Spring session

- 300839.2** Ecology
300838.2 Comparative Physiology

Choose one of

- 301261.1** Complex Case Studies in Science
301259.1 Work Internship for Science Professionals

And one elective

Year 3

Autumn session

- 300913.2** Field Project 1

And three electives

Spring session

- 300914.2** Field Project 2
300878.2 Animal Behaviour

And two electives

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

- 300811.2** Scientific Literacy
300802.3 Biodiversity
300808.3 Introductory Chemistry

- 300813.2** Wildlife Studies

Spring session

- 300816.2** Cell Biology
301256.1 Invertebrate Zoology

Choose one of

- 300831.4** Quantitative Thinking
300672.3 Mathematics 1A
200263.6 Biometry

And one elective

Year 2

Autumn session

- 300932.2** Natural Science Research Methods
301257.1 Vertebrate Zoology
301253.1 Evolution and Genetics
300937.2 Advanced Science Project A

Spring session

- 300839.2** Ecology
300938.2 Advanced Science Project B
300838.2 Comparative Physiology

Choose one of

- 301259.1** Work Internship for Science Professionals
301261.1 Complex Case Studies in Science

Year 3

Autumn session

- 300913.2** Field Project 1
301258.1 Advanced Science Research Project C

And two electives

Spring session

- 300914.2** Field Project 2
300878.2 Animal Behaviour
301258.1 Advanced Science Research Project C

And one elective

Diploma in Science/Bachelor of Science

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Full-time

Year 1: College Units

Standard 3 Term year

Preparatory unit

- 700043.3** Chemistry (WSTC Prep)

And

Eight University Level units comprising

700095.3	Biodiversity (WSTC)
700125.3	Cell Biology (WSTC)
700122.3	Essential Chemistry 2 (WSTC)
700155.3	Introductory Chemistry (WSTC)
700123.3	Quantitative Thinking (WSTC)
700124.3	Scientific Literacy (WSTC)

And

Two units from the following (depending on the testamur major chosen)

700266.2	Concepts in Human Anatomy (WSTC)
700295.1	Concepts in Human Physiology (WSTC)
700296.1	Environmental Issues and Solutions (WSTC)
700265.2	Food Science 1 (WSTC)
700061.4	Introduction to Human Biology (WSTC)
700297.1	Management of Aquatic Environments (WSTC)
700298.1	Water Quality Assessment and Management (WSTC)

Year 2**Autumn session**

301253.1	Evolution and Genetics
300932.2	Natural Science Research Methods
301257.1	Vertebrate Zoology
300813.2	Wildlife Studies

Spring session

300839.2	Ecology
300838.2	Comparative Physiology

Choose one of

301261.1	Complex Case Studies in Science
301259.1	Work Internship for Science Professionals

And one elective

Year 3**Autumn session**

300913.2	Field Project 1
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And three electives

Spring session

300914.2	Field Project 2
300878.2	Animal Behaviour

And two electives

Major - Animal Science**MT3015.1**

As interactions with animals increase, so too does our need to effectively manage these populations. Animal scientists use scientific principles to solve problems associated with our relationship with and the management of animals in a

changing world. In this major, you will develop a deep understanding of how we use animals for food, companionship and recreation by applying core principles ranging from nutrition and reproduction, through to behaviour and welfare. 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 management of wildlife, companion animals and livestock

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure**Special Requirements Prerequisites**

Students who opt to enrol in MT3015 Animal Science, are strongly recommended to obtain a Q-Fever vaccination, and Tetanus vaccination/booster. Students who cannot evidence vaccination may be precluded from activities on the Farm, and/or internships with third parties

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**

300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry
300813.2	Wildlife Studies

Spring session

300816.2	Cell Biology
300801.2	Animal Science

Choose one of

300831.4	Quantitative Thinking
300672.3	Mathematics 1A
200263.6	Biometry

And one elective

Year 2**Autumn session**

300932.2	Natural Science Research Methods
300807.2	Human Animal Interactions

And two electives

Spring session

300835.2 Animal Reproduction

Choose one of

- 301261.1** Complex Case Studies in Science
301259.1 Work Internship for Science Professionals

And two electives

Year 3**Autumn session**

- 300913.2** Field Project 1
301255.1 Animal Health, Ethics and Welfare
300853.2 Animal Nutrition and Feeding

And one elective

Spring session

- 300914.2** Field Project 2
300878.2 Animal Behaviour

And two electives

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**

- 300811.2** Scientific Literacy
300802.3 Biodiversity
300808.3 Introductory Chemistry
300813.2 Wildlife Studies

Spring session

- 300816.2** Cell Biology
300801.2 Animal Science

Choose one of

- 300831.4** Quantitative Thinking
300672.3 Mathematics 1A
200263.6 Biometry

And one elective

Year 2**Autumn session**

- 300932.2** Natural Science Research Methods
300807.2 Human Animal Interactions
300937.2 Advanced Science Project A

And one elective

Spring session

- 300835.2** Animal Reproduction
300938.2 Advanced Science Project B

Choose one of

- 301261.1** Complex Case Studies in Science
301259.1 Work Internship for Science Professionals

And one elective

Year 3**Autumn session**

- 300913.2** Field Project 1
301255.1 Animal Health, Ethics and Welfare
300853.2 Animal Nutrition and Feeding
301258.1 Advanced Science Research Project C

Spring session

- 300914.2** Field Project 2
300878.2 Animal Behaviour
301258.1 Advanced Science Research Project C

And one elective

Diploma in Science/Bachelor of Science

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Full-time**Year 1: College Units**

Standard 3 Term year

Preparatory unit

- 700043.3** Chemistry (WSTC Prep)

And

Eight University Level units comprising

- 700095.3** Biodiversity (WSTC)
700125.3 Cell Biology (WSTC)
700122.3 Essential Chemistry 2 (WSTC)
700155.3 Introductory Chemistry (WSTC)
700123.3 Quantitative Thinking (WSTC)
700124.3 Scientific Literacy (WSTC)

And

Two units from the following (depending on the testamur major chosen)

700266.2	Concepts in Human Anatomy (WSTC)
700295.1	Concepts in Human Physiology (WSTC)
700296.1	Environmental Issues and Solutions (WSTC)
700265.2	Food Science 1 (WSTC)
700061.4	Introduction to Human Biology (WSTC)
700297.1	Management of Aquatic Environments (WSTC)
700298.1	Water Quality Assessment and Management (WSTC)

Year 2**Autumn session**

300932.2	Natural Science Research Methods
300807.2	Human Animal Interactions
300813.2	Wildlife Studies

And one elective

Spring session

300835.2	Animal Reproduction
300801.2	Animal Science

Choose one of

301261.1	Complex Case Studies in Science
301259.1	Work Internship for Science Professionals

And one elective

Year 3**Autumn session**

300913.2	Field Project 1
301255.1	Animal Health, Ethics and Welfare
300853.2	Animal Nutrition and Feeding

And one elective

Spring session

300914.2	Field Project 2
300878.2	Animal Behaviour

And two electives

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**

300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry
300361.4	Introduction to Human Biology

Spring session

300803.2	Essential Chemistry 2
300816.2	Cell Biology

Choose one of

300831.4	Quantitative Thinking
300672.3	Mathematics 1A
200263.6	Biometry

And one elective

Year 2**Autumn session**

300936.2	Functional Proteins and Genes
300833.3	Microbiology 1
300838.2	Comparative Physiology

And one elective

Spring session

301251.1	Molecular Biology of the Cell
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Choose one of

301261.1	Complex Case Studies in Science
301259.1	Work Internship for Science Professionals

And two electives

Year 3**Autumn session**

300909.2	Biological Adaptation to Climate Change
301272.1	Plant Science
300919.2	Occupational Health and Safety

And one elective

Spring session

300905.2 Advanced Immunology

And three electives

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

300811.2 Scientific Literacy
300802.3 Biodiversity
300808.3 Introductory Chemistry
300361.4 Introduction to Human Biology

Spring session

300803.2 Essential Chemistry 2
300816.2 Cell Biology

Choose one of

300831.4 Quantitative Thinking
300672.3 Mathematics 1A
200263.6 Biometry

And one elective

Year 2

Autumn session

300936.2 Functional Proteins and Genes
300833.3 Microbiology 1
300838.2 Comparative Physiology
300937.2 Advanced Science Project A

Spring session

301251.1 Molecular Biology of the Cell
300938.2 Advanced Science Project B

Choose one of

301261.1 Complex Case Studies in Science
301259.1 Work Internship for Science Professionals

And one elective

Year 3

Autumn session

300909.2 Biological Adaptation to Climate Change
301272.1 Plant Science
301258.1 Advanced Science Research Project C
300919.2 Occupational Health and Safety

Spring session

300905.2 Advanced Immunology
301258.1 Advanced Science Research Project C

And two electives

Diploma in Science/Bachelor of Science

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Full-time

Year 1: College Units

Standard 3 Term year

Preparatory unit

700043.3 Chemistry (WSTC Prep)

And

Eight University Level units comprising:

700095.3 Biodiversity (WSTC)
700125.3 Cell Biology (WSTC)
700122.3 Essential Chemistry 2 (WSTC)
700155.3 Introductory Chemistry (WSTC)
700124.3 Scientific Literacy (WSTC)
700061.4 Introduction to Human Biology (WSTC)
700123.3 Quantitative Thinking (WSTC)

And

One unit from the following (depending on the testamur major chosen)

700266.2 Concepts in Human Anatomy (WSTC)
700295.1 Concepts in Human Physiology (WSTC)
700296.1 Environmental Issues and Solutions (WSTC)
700265.2 Food Science 1 (WSTC)
700297.1 Management of Aquatic Environments (WSTC)
700298.1 Water Quality Assessment and Management (WSTC)

Year 2

Autumn session

300936.2 Functional Proteins and Genes
300833.3 Microbiology 1
300838.2 Comparative Physiology

And one elective

Spring session

301251.1 Molecular Biology of the Cell

Choose one of

301261.1 Complex Case Studies in Science
301259.1 Work Internship for Science Professionals

And two electives

Year 3

Autumn session

300909.2 Biological Adaptation to Climate Change
301272.1 Plant Science
300919.2 Occupational Health and Safety

And one elective

Spring session

300905.2 Advanced Immunology

And three electives

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

300811.2 Scientific Literacy
300802.3 Biodiversity
300808.3 Introductory Chemistry
300824.2 Management of Aquatic Environments

Spring session

300816.2 Cell Biology
300823.2 Soils

Choose one of

300831.4 Quantitative Thinking
300672.3 Mathematics 1A
200263.6 Biometry

And one elective

Year 2

Autumn session

300936.2 Functional Proteins and Genes
300837.2 Climate Change Science
301253.1 Evolution and Genetics

And one elective

Spring session

300839.2 Ecology

Choose one of

301261.1 Complex Case Studies in Science
301259.1 Work Internship for Science Professionals

And two electives

Year 3

Autumn session

300909.2 Biological Adaptation to Climate Change
300856.2 Ecosystem Carbon Accounting

And two electives

Spring session

301268.1 Global Change Ecology
301266.1 Biotic interactions

And two electives

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

300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry
300824.2	Management of Aquatic Environments

Spring session

300816.2	Cell Biology
300823.2	Soils

Choose one of

300831.4	Quantitative Thinking
300672.3	Mathematics 1A
200263.6	Biometry

And one elective

Year 2

Autumn session

300936.2	Functional Proteins and Genes
300837.2	Climate Change Science
301253.1	Evolution and Genetics
300937.2	Advanced Science Project A

Spring session

300839.2	Ecology
300938.2	Advanced Science Project B

Choose one of

301261.1	Complex Case Studies in Science
301259.1	Work Internship for Science Professionals

And one elective

Year 3

Autumn session

300909.2	Biological Adaptation to Climate Change
300856.2	Ecosystem Carbon Accounting
301258.1	Advanced Science Research Project C

And one elective

Spring session

301268.1	Global Change Ecology
301266.1	Biotic interactions
301258.1	Advanced Science Research Project C

And one elective

Diploma in Science/Bachelor of Science

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Full-time

Year 1: College Units

Standard 3 Term year

Preparatory unit

700043.3	Chemistry (WSTC Prep)
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And

Eight University Level units comprising

700095.3	Biodiversity (WSTC)
700125.3	Cell Biology (WSTC)
700122.3	Essential Chemistry 2 (WSTC)
700155.3	Introductory Chemistry (WSTC)
700297.1	Management of Aquatic Environments (WSTC)
700123.3	Quantitative Thinking (WSTC)
700124.3	Scientific Literacy (WSTC)

And

One unit from the following (depending on the testamur major chosen)

700266.2	Concepts in Human Anatomy (WSTC)
700295.1	Concepts in Human Physiology (WSTC)
700296.1	Environmental Issues and Solutions (WSTC)
700265.2	Food Science 1 (WSTC)
700061.4	Introduction to Human Biology (WSTC)
700298.1	Water Quality Assessment and Management (WSTC)

Year 2

Autumn session

300936.2	Functional Proteins and Genes
300837.2	Climate Change Science
301253.1	Evolution and Genetics

And one elective

Spring session

300839.2	Ecology
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Choose one of

301261.1	Complex Case Studies in Science
301259.1	Work Internship for Science Professionals

And two electives

Year 3

Autumn session

300909.2 Biological Adaptation to Climate Change
300856.2 Ecosystem Carbon Accounting

And two electives

Spring session

301268.1 Global Change Ecology
301266.1 Biotic interactions

And two electives

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

300811.2 Scientific Literacy
300802.3 Biodiversity
300808.3 Introductory Chemistry
300824.2 Management of Aquatic Environments

Spring session

301271.1 Environmental Issues and Solutions

Choose one of

300831.4 Quantitative Thinking
300672.3 Mathematics 1A
200263.6 Biometry

Choose one of

300803.2 Essential Chemistry 2
300816.2 Cell Biology

And one elective

Year 2

Autumn session

300932.2 Natural Science Research Methods
301275.1 Internet of Things for the Environment

Choose one of

300837.2 Climate Change Science
300833.3 Microbiology 1

And one elective

Spring session

301403.1 Environmental Planning, Policy & Regulation
301273.1 Land Degradation and Contamination

Choose one of

301261.1 Complex Case Studies in Science
301259.1 Work Internship for Science Professionals

And one elective

Year 3

Autumn session

300913.2 Field Project 1

And three electives

Spring session

300914.2 Field Project 2
300870.2 Water in the Landscape

And two electives

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

300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry
300824.2	Management of Aquatic Environments

Spring session

301271.1	Environmental Issues and Solutions
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Choose one of

300831.4	Quantitative Thinking
300672.3	Mathematics 1A
200263.6	Biometry

Choose one of

300803.2	Essential Chemistry 2
300816.2	Cell Biology

And one elective

Year 2

Autumn session

300932.2	Natural Science Research Methods
301275.1	Internet of Things for the Environment
300937.2	Advanced Science Project A

Choose one of

300837.2	Climate Change Science
300833.3	Microbiology 1

Spring session

301403.1	Environmental Planning, Policy & Regulation
301273.1	Land Degradation and Contamination
300938.2	Advanced Science Project B

Choose one of

301261.1	Complex Case Studies in Science
301259.1	Work Internship for Science Professionals

Year 3

Autumn session

300913.2	Field Project 1
301258.1	Advanced Science Research Project C

And two electives

Spring session

300914.2	Field Project 2
301258.1	Advanced Science Research Project C
300870.2	Water in the Landscape

And one elective

Diploma in Science/Bachelor of Science

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Nirimba campus year one units only

Full-time

Year One: College Units

Standard 3 Term year

Preparatory unit

700043.3	Chemistry (WSTC Prep)
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And

Eight University Level units

comprising:

700095.3	Biodiversity (WSTC)
700125.3	Cell Biology (WSTC)
700296.1	Environmental Issues and Solutions (WSTC)
700122.3	Essential Chemistry 2 (WSTC)
700155.3	Introductory Chemistry (WSTC)
700297.1	Management of Aquatic Environments (WSTC)
700123.3	Quantitative Thinking (WSTC)
700124.3	Scientific Literacy (WSTC)

Year 2

Autumn session

300932.2	Natural Science Research Methods
301275.1	Internet of Things for the Environment

Choose one of

300837.2	Climate Change Science
300833.3	Microbiology 1

And one elective

Spring session

301403.1	Environmental Planning, Policy & Regulation
301273.1	Land Degradation and Contamination

Choose one of

301261.1	Complex Case Studies in Science
301259.1	Work Internship for Science Professionals

And one elective

Year 3

Autumn session

300913.2	Field Project 1
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And three electives

Spring session

300914.2 Field Project 2
300870.2 Water in the Landscape

And two electives

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

300811.2 Scientific Literacy
300802.3 Biodiversity
300808.3 Introductory Chemistry
301254.1 Concepts in Human Physiology

Spring session

300803.2 Essential Chemistry 2
300816.2 Cell Biology

Choose one of

300831.4 Quantitative Thinking
300672.3 Mathematics 1A
200263.6 Biometry

And one elective

Year 2

Autumn session

300936.2 Functional Proteins and Genes
300833.3 Microbiology 1

And two electives

Spring session

301251.1 Molecular Biology of the Cell
300896.2 Microbiology 2

Choose one of

301261.1 Complex Case Studies in Science
301259.1 Work Internship for Science Professionals

And one elective

Year 3

Autumn session

300826.2 Medical Microbiology
300866.2 Analytical Microbiology

And two electives

Spring session

300883.2 Laboratory Quality Management
300905.2 Advanced Immunology

And two electives

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

300811.2 Scientific Literacy
300802.3 Biodiversity
300808.3 Introductory Chemistry
301254.1 Concepts in Human Physiology

Spring session

300803.2 Essential Chemistry 2
300816.2 Cell Biology

Choose one of

300831.4 Quantitative Thinking
300672.3 Mathematics 1A
200263.6 Biometry

And one elective

Year 2**Autumn session**

300936.2 Functional Proteins and Genes
300833.3 Microbiology 1
300937.2 Advanced Science Project A

And one elective

Spring session

301251.1 Molecular Biology of the Cell
300896.2 Microbiology 2
300938.2 Advanced Science Project B

Choose one of

301261.1 Complex Case Studies in Science
301259.1 Work Internship for Science Professionals

Year 3**Autumn session**

300826.2 Medical Microbiology
301258.1 Advanced Science Research Project C
300866.2 Analytical Microbiology

And one elective

Spring session

300883.2 Laboratory Quality Management
300905.2 Advanced Immunology
301258.1 Advanced Science Research Project C

And one elective

Diploma in Science/Bachelor of Science

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Full-time**Year 1: College Units**

Standard 3 Term year

Preparatory unit

700043.3 Chemistry (WSTC Prep)

And

Eight University Level units comprising:

700095.3 Biodiversity (WSTC)
700125.3 Cell Biology (WSTC)
700295.1 Concepts in Human Physiology (WSTC)
700122.3 Essential Chemistry 2 (WSTC)
700155.3 Introductory Chemistry (WSTC)
700123.3 Quantitative Thinking (WSTC)
700124.3 Scientific Literacy (WSTC)

And

One unit from the following (depending on the testamur major chosen)

700266.2 Concepts in Human Anatomy (WSTC)
700296.1 Environmental Issues and Solutions (WSTC)
700265.2 Food Science 1 (WSTC)
700061.4 Introduction to Human Biology (WSTC)
700297.1 Management of Aquatic Environments (WSTC)
700298.1 Water Quality Assessment and Management (WSTC)

Year 2**Autumn session**

300936.2 Functional Proteins and Genes
300833.3 Microbiology 1

And two electives

Spring session

301251.1 Molecular Biology of the Cell
300896.2 Microbiology 2

Choose one of

301261.1 Complex Case Studies in Science
301259.1 Work Internship for Science Professionals

And one elective

Year 3**Autumn session**

300826.2 Medical Microbiology
300866.2 Analytical Microbiology

And two electives

Spring session

300883.2 Laboratory Quality Management
300905.2 Advanced Immunology

And two electives

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. Career opportunities may 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

300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry

And one elective

Spring session

300803.2	Essential Chemistry 2
300805.2	Food Science 1
300816.2	Cell Biology

Choose one of

300831.4	Quantitative Thinking
300672.3	Mathematics 1A
200263.6	Biometry

Year 2

Autumn session

300936.2	Functional Proteins and Genes
300933.2	Nutrition and Health 1
300842.3	Food Science 2
300833.3	Microbiology 1

Spring session

300879.2	Experimental Foods
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Choose one of

301261.1	Complex Case Studies in Science
301259.1	Work Internship for Science Professionals

And two electives

Year 3

Autumn session

300871.2	Culinary Science
300922.3	Quality Assurance and Food Analysis

And two electives

Spring session

300915.2	Food Product Development
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And three electives

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

300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry

And one elective

Spring session

300803.2	Essential Chemistry 2
300805.2	Food Science 1
300816.2	Cell Biology

Choose one of

300831.4	Quantitative Thinking
300672.3	Mathematics 1A
200263.6	Biometry

Year 2**Summer session****300936.2** Functional Proteins and Genes**Autumn session****300933.2** Nutrition and Health 1**300842.3** Food Science 2**300833.3** Microbiology 1**300937.2** Advanced Science Project A**Spring session****300879.2** Experimental Foods**300938.2** Advanced Science Project B

Choose one of

301261.1 Complex Case Studies in Science**301259.1** Work Internship for Science Professionals

And one elective

Year 3**Autumn session****300871.2** Culinary Science**300922.3** Quality Assurance and Food Analysis**301258.1** Advanced Science Research Project C

And one elective

Spring session**300915.2** Food Product Development**301258.1** Advanced Science Research Project C

And one elective

Diploma in Science/Bachelor of Science

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Full-time**Year 1: College Units**

Standard 3 Term year

Preparatory unit**700043.3** Chemistry (WSTC Prep)

And

Eight University Level units comprising**700095.3** Biodiversity (WSTC)**700125.3** Cell Biology (WSTC)**700122.3** Essential Chemistry 2 (WSTC)**700265.2** Food Science 1 (WSTC)**700155.3** Introductory Chemistry (WSTC)**700123.3** Quantitative Thinking (WSTC)**700124.3** Scientific Literacy (WSTC)

And

One unit from the following (depending on the testamur major chosen)**700266.2** Concepts in Human Anatomy (WSTC)**700295.1** Concepts in Human Physiology (WSTC)**700296.1** Environmental Issues and Solutions (WSTC)**700061.4** Introduction to Human Biology (WSTC)**700297.1** Management of Aquatic Environments (WSTC)**700298.1** Water Quality Assessment and Management (WSTC)**Year 2****Autumn session****300936.2** Functional Proteins and Genes**300933.2** Nutrition and Health 1**300842.3** Food Science 2**300833.3** Microbiology 1**Spring session****300879.2** Experimental Foods

Choose one of

301261.1 Complex Case Studies in Science**301259.1** Work Internship for Science Professionals

And two electives

Year 3**Autumn session****300871.2** Culinary Science**300922.3** Quality Assurance and Food Analysis

And two electives

Spring session**300915.2** Food Product Development

And three electives

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. All students must complete 60 credit points of study at Level 3 to meet course requirements.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

All students must complete 60 credit points of study at Level 3 to meet course requirements.

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 M3120 Crime Scene Investigation

M3120.1 Crime Scene Investigation

Full-time

Year 1

Autumn session

300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry
300806.2	Forensic Science

Spring session

200263.6	Biometry
300874.3	Digital Forensic Photography
300816.2	Cell Biology
300803.2	Essential Chemistry 2

Year 2

Autumn session

300843.2	Forensic and Environmental Analysis
300845.2	Genetics
401171.2	Imaging Science

And one elective

Spring session

301126.2	Concepts in Human Anatomy
300873.3	Crime Scene Investigation

Choose one of

301261.1	Complex Case Studies in Science
301259.1	Work Internship for Science Professionals

And one elective

Year 3

Autumn session

300868.2	Forensic Chemistry
300981.2	Environmental Forensic Investigations
301120.3	Forensic Anthropology

And one elective

Spring session

300883.2	Laboratory Quality Management
300911.2	Complex Forensic Studies
401170.3	Forensic Biology

And one elective

Bachelor of Science (Pathway to Teaching Primary/Secondary)

Qualification for the Bachelor of Science (Pathway to Teaching Primary/Secondary) with majors in Forensic Science and M3120 Crime Scene Investigation requires the successful completion of 240 credit points as per the recommended sequence for the Bachelor of Science with majors in Forensic Science and M3120 Crime Scene Investigation, 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 Science requires the successful completion of 240 credit points as per the recommended sequence below.

Note: This major must be undertaken with M3120 Crime Scene Investigation

M3120.1 Crime Scene Investigation

Full-time

Year 1

Autumn session

300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry
300806.2	Forensic Science

Spring session

200263.6	Biometry
300874.3	Digital Forensic Photography
300816.2	Cell Biology
300803.2	Essential Chemistry 2

Year 2**Autumn session**

300843.2	Forensic and Environmental Analysis
300845.2	Genetics
401171.2	Imaging Science
300937.2	Advanced Science Project A

Spring session

301126.2	Concepts in Human Anatomy
300873.3	Crime Scene Investigation
300938.2	Advanced Science Project B

Choose one of

301261.1	Complex Case Studies in Science
301259.1	Work Internship for Science Professionals

Year 3**Autumn session**

300868.2	Forensic Chemistry
300981.2	Environmental Forensic Investigations
301120.3	Forensic Anthropology
301258.1	Advanced Science Research Project C

Spring session

300883.2	Laboratory Quality Management
300911.2	Complex Forensic Studies
401170.3	Forensic Biology
301258.1	Advanced Science Research Project C

Diploma in Science/Bachelor of Science**Commencing in Term 1**

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Please note that some units are only available for students enrolled in MT3033 and may require completion at Hawkesbury campus

Full-time**Year 1: College Units**

Standard 3 term year

Preparatory unit:

700043.3	Chemistry (WSTC Prep)
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And

Eight university level units comprising:

700125.3	Cell Biology (WSTC)
700122.3	Essential Chemistry 2 (WSTC)
700124.3	Scientific Literacy (WSTC)
700155.3	Introductory Chemistry (WSTC)
700095.3	Biodiversity (WSTC)
700123.3	Quantitative Thinking (WSTC)

700266.2	Concepts in Human Anatomy (WSTC)
300874.3	Digital Forensic Photography

Year 2**Autumn session**

300843.2	Forensic and Environmental Analysis
300845.2	Genetics
300806.2	Forensic Science

And one elective

Spring session

300873.3	Crime Scene Investigation
200263.6	Biometry

Choose one of

301259.1	Work Internship for Science Professionals
301261.1	Complex Case Studies in Science

And one elective

Year 3**Autumn session**

300868.2	Forensic Chemistry
300981.2	Environmental Forensic Investigations
301120.3	Forensic Anthropology
401171.2	Imaging Science

Spring session

300883.2	Laboratory Quality Management
300911.2	Complex Forensic Studies
401170.3	Forensic Biology

And one elective

Diploma in Science/Bachelor of Science**Commencing in Term 2**

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Please note that some units are only available for students enrolled in MT3033 and may require completion at Hawkesbury campus

Full-time**Year 1 and Autumn Year 2:****College units**

Standard 3 term year

Preparatory unit:

700043.3	Chemistry (WSTC Prep)
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And

Eight University Level units comprising:

700125.3	Cell Biology (WSTC)
700122.3	Essential Chemistry 2 (WSTC)
700124.3	Scientific Literacy (WSTC)

700155.3	Introductory Chemistry (WSTC)
700095.3	Biodiversity (WSTC)
700123.3	Quantitative Thinking (WSTC)
300806.2	Forensic Science
300874.3	Digital Forensic Photography

Year 2**Spring session**

300873.3	Crime Scene Investigation
301126.2	Concepts in Human Anatomy
200263.6	Biometry

Choose one of

301259.1	Work Internship for Science Professionals
301261.1	Complex Case Studies in Science

Year 3**Autumn session**

300843.2	Forensic and Environmental Analysis
300845.2	Genetics
401171.2	Imaging Science

And one elective

Spring session

300883.2	Laboratory Quality Management
300911.2	Complex Forensic Studies
401170.3	Forensic Biology

And one elective

Year 4**Autumn session**

300868.2	Forensic Chemistry
300981.2	Environmental Forensic Investigations
301120.3	Forensic Anthropology

And one elective

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. 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.

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.

Note: There will be no new enrolments from July 2020.

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**

300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry
300806.2	Forensic Science

Spring session

200263.6	Biometry
300803.2	Essential Chemistry 2
300816.2	Cell Biology

And one elective

Year 2**Summer session**

300935.3	Evidence and Crime Scene Management
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Autumn session

300843.2	Forensic and Environmental Analysis
300876.2	Organic Chemistry

And one elective

Spring session

401171.2	Imaging Science
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Choose one of

301261.1	Complex Case Studies in Science
301259.1	Work Internship for Science Professionals

And two electives

Year 3**Autumn session**

300868.2	Forensic Chemistry
300981.2	Environmental Forensic Investigations

And two electives

Spring session

300883.2	Laboratory Quality Management
300911.2	Complex Forensic Studies

And two electives

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

300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry
300806.2	Forensic Science

Spring session

200263.6	Biometry
300803.2	Essential Chemistry 2
300816.2	Cell Biology

And one elective

Year 2

Summer session

300935.3	Evidence and Crime Scene Management
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Autumn session

300843.2	Forensic and Environmental Analysis
300876.2	Organic Chemistry
300937.2	Advanced Science Project A

Spring session

300938.2	Advanced Science Project B
401171.2	Imaging Science

Choose one of

301261.1	Complex Case Studies in Science
301259.1	Work Internship for Science Professionals

And one elective

Year 3

Autumn session

300868.2	Forensic Chemistry
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300981.2	Environmental Forensic Investigations
301258.1	Advanced Science Research Project C

And one elective

Spring session

300883.2	Laboratory Quality Management
300911.2	Complex Forensic Studies
301258.1	Advanced Science Research Project C

And one elective

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.

Note: There will be no new enrolments from July 2020.

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

300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry
300806.2	Forensic Science

Spring session

200263.6	Biometry
300803.2	Essential Chemistry 2
300816.2	Cell Biology
301126.2	Concepts in Human Anatomy

Year 2

Summer session

300935.3	Evidence and Crime Scene Management
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Autumn session

300843.2 Forensic and Environmental Analysis
300845.2 Genetics

And one elective

Spring session

Choose one of

301259.1 Work Internship for Science Professionals
301261.1 Complex Case Studies in Science

And 3 electives

Year 3**Autumn session**

301120.3 Forensic Anthropology

And 3 electives

Spring session

300883.2 Laboratory Quality Management
300911.2 Complex Forensic Studies
401170.3 Forensic Biology

And one elective

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**

300811.2 Scientific Literacy
300802.3 Biodiversity
300808.3 Introductory Chemistry
300806.2 Forensic Science

Spring session

200263.6 Biometry
300803.2 Essential Chemistry 2
300816.2 Cell Biology
301126.2 Concepts in Human Anatomy

Year 2**Summer session**

300935.3 Evidence and Crime Scene Management

Autumn session

300843.2 Forensic and Environmental Analysis
300845.2 Genetics
300937.2 Advanced Science Project A

Spring session

300938.2 Advanced Science Project B

Choose one of

301259.1 Work Internship for Science Professionals
301261.1 Complex Case Studies in Science

And two electives

Year 3**Autumn session**

301120.3 Forensic Anthropology
301258.1 Advanced Science Research Project C

And two electives

Spring session

300883.2 Laboratory Quality Management
300911.2 Complex Forensic Studies
401170.3 Forensic Biology
301258.1 Advanced Science Research Project C

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

300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry
300672.3	Mathematics 1A

Spring

200263.6	Biometry
300673.3	Mathematics 1B

Choose one of

300803.2	Essential Chemistry 2
300816.2	Cell Biology

And choose one elective

Year 2

Autumn session

300580.4	Programming Fundamentals
200025.3	Discrete Mathematics
200028.4	Advanced Calculus

And one elective

Spring session

200030.5	Differential Equations
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Choose one of

301259.1	Work Internship for Science Professionals
301261.1	Complex Case Studies in Science

And two electives

Year 3

Autumn session

200193.3	Abstract Algebra
200023.4	Analysis

And two electives

Spring session

200022.4	Mathematical Modelling
200045.4	Quantitative Project

And two electives

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

300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry
300672.3	Mathematics 1A

Spring

200263.6	Biometry
300673.3	Mathematics 1B

Choose one of

300803.2	Essential Chemistry 2
300816.2	Cell Biology

And choose one elective

Year 2

Autumn session

300580.4	Programming Fundamentals
200025.3	Discrete Mathematics
200028.4	Advanced Calculus
300937.2	Advanced Science Project A

Spring session

200030.5	Differential Equations
300938.2	Advanced Science Project B

Choose one of

301259.1	Work Internship for Science Professionals
301261.1	Complex Case Studies in Science

And one elective

Year 3**Autumn session**

200193.3	Abstract Algebra
200023.4	Analysis
301258.1	Advanced Science Research Project C

And one elective

Spring session

200022.4	Mathematical Modelling
200045.4	Quantitative Project
301258.1	Advanced Science Research Project C

And one elective

Diploma in Science/Bachelor of Science

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Full-time

Year 1: College Units
Standard 3 Term year

Preparatory unit

700043.3	Chemistry (WSTC Prep)
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And

Eight University Level units comprising

700095.3	Biodiversity (WSTC)
700125.3	Cell Biology (WSTC)
700122.3	Essential Chemistry 2 (WSTC)
700155.3	Introductory Chemistry (WSTC)
700124.3	Scientific Literacy (WSTC)

And

Three units from the following (depending on the testamur major chosen)

700266.2	Concepts in Human Anatomy (WSTC)
700295.1	Concepts in Human Physiology (WSTC)
700296.1	Environmental Issues and Solutions (WSTC)
700265.2	Food Science 1 (WSTC)
700061.4	Introduction to Human Biology (WSTC)
700297.1	Management of Aquatic Environments (WSTC)
700123.3	Quantitative Thinking (WSTC)
700298.1	Water Quality Assessment and Management (WSTC)

Year 2**Autumn session**

300580.4	Programming Fundamentals
200025.3	Discrete Mathematics
300672.3	Mathematics 1A
300673.3	Mathematics 1B

Spring session

200030.5	Differential Equations
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Choose one of

301259.1	Work Internship for Science Professionals
301261.1	Complex Case Studies in Science

And two electives

Year 3**Autumn session**

200193.3	Abstract Algebra
200023.4	Analysis
200028.4	Advanced Calculus

And one elective

Spring session

200022.4	Mathematical Modelling
200045.4	Quantitative Project

And two electives

Major - Applied Physics**MT3026.1**

Applied Physics uses the principles and tools of physics to understand and manipulate the world around us, and covers fields as diverse as astrophysics, biophysics, magnetic resonance (i.e., NMR and MRI), medical physics, remote sensing, semiconductor physics, space science and much more. In this major, the core principles of physics, mathematics and computing are taught and used to study specific applications of physics. Students have access to world class facilities (e.g. telescopes and onsite ultra-high field MRI), and the expertise of international researchers. Graduates of this major possess skills in problem-solving and critical thinking together with deep knowledge of Physics. This flexible set of skills, applied across many disciplines, enables students to seek career opportunities confidently in teaching, research or industry, in diverse fields such as medical physics, materials science, energy, geoscience, aerospace, data science, finance and more.

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**

300672.3	Mathematics 1A
300802.3	Biodiversity
300808.3	Introductory Chemistry
300828.2	Physics 1

Spring

300811.2	Scientific Literacy
300829.2	Physics 2
300673.3	Mathematics 1B

Choose one of

300803.2	Essential Chemistry 2
300816.2	Cell Biology

Year 2**Autumn session**

300580.4	Programming Fundamentals
300966.3	The Cosmos in Perspective: Information and Life

And two electives

Spring session

301392.1	Quantum Physics
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Note: from 2021 this unit replaces 300923 Quantum Physics

Choose one of

301259.1	Work Internship for Science Professionals
301261.1	Complex Case Studies in Science

And two electives

Year 3**Autumn session**

301262.1	Classical Physics
301110.2	Applications of Big Data

And two electives

Spring session

300916.4	Astroinformatics
300924.2	Science Research Project

And two electives

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**

300672.3	Mathematics 1A
300802.3	Biodiversity
300808.3	Introductory Chemistry
300828.2	Physics 1

Spring

300811.2	Scientific Literacy
300829.2	Physics 2
300673.3	Mathematics 1B

Choose one of

300803.2	Essential Chemistry 2
300816.2	Cell Biology

Year 2**Autumn session**

300580.4	Programming Fundamentals
300966.3	The Cosmos in Perspective: Information and Life
300937.2	Advanced Science Project A

And one elective

Spring session

300923.2	Quantum Physics
300938.2	Advanced Science Project B

Choose one of

301259.1	Work Internship for Science Professionals
301261.1	Complex Case Studies in Science

And one elective

Year 3**Autumn session**

301262.1	Classical Physics
301258.1	Advanced Science Research Project C
301110.2	Applications of Big Data

And one elective

Spring session

- 300916.4** Astroinformatics
300924.2 Science Research Project
301258.1 Advanced Science Research Project C

And one elective

Diploma in Science/Bachelor of Science

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Full-time**Year 1: College Units**

Standard 3 Term year

Preparatory unit:

- 700043.3** Chemistry (WSTC Prep)

And

Eight University Level units comprising

- 700095.3** Biodiversity (WSTC)
700125.3 Cell Biology (WSTC)
700122.3 Essential Chemistry 2 (WSTC)
700155.3 Introductory Chemistry (WSTC)
700124.3 Scientific Literacy (WSTC)

And

Three units from the following (depending on the testamur major chosen)

- 700266.2** Concepts in Human Anatomy (WSTC)
700295.1 Concepts in Human Physiology (WSTC)
700296.1 Environmental Issues and Solutions (WSTC)
700265.2 Food Science 1 (WSTC)
700061.4 Introduction to Human Biology (WSTC)
700297.1 Management of Aquatic Environments (WSTC)
700123.3 Quantitative Thinking (WSTC)
700298.1 Water Quality Assessment and Management (WSTC)

Year 2**Autumn session**

- 300580.4** Programming Fundamentals
300966.3 The Cosmos in Perspective: Information and Life
300828.2 Physics 1
300672.3 Mathematics 1A

Spring session

- 300923.2** Quantum Physics
300829.2 Physics 2
300673.3 Mathematics 1B

Choose one of

- 301259.1** Work Internship for Science Professionals
301261.1 Complex Case Studies in Science

Year 3**Autumn session**

- 301262.1** Classical Physics
301110.2 Applications of Big Data

And two electives

Spring session

- 300916.4** Astroinformatics
300924.2 Science Research Project

And two electives

Major - Chemistry**MT3027.1**

Chemistry knowledge underpins all aspects of our modern society. Chemists can use an understanding of chemical structures and processes to adapt, control and manipulate systems involved in energy production, food safety, forensics, biomedical technology, and ecosystem. Indeed, there is not an area of our society that has not been impacted by chemical knowledge. At WSU we teach the theoretical and practical aspects of chemical sciences covering the sub-disciplines of physical, analytical, inorganic and organic chemistries. We have a particular focus on contemporary spectroscopy and separation methods that are required to solve big-picture problems in all areas of scientific discovery. Our graduates have opportunities to be closely mentored by experienced academics. We aim to produce scientists who are confident and self-directed, having gained independence in scientific discovery through an integrated theoretical and practical teaching programme that seeks to solve problems relating to societal needs.

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**

- 300811.2** Scientific Literacy

300802.3 Biodiversity
300808.3 Introductory Chemistry

And one elective

Spring session

300803.2 Essential Chemistry 2

Choose one of

300672.3 Mathematics 1A
300831.4 Quantitative Thinking

And two electives

Year 2

Autumn session

300832.2 Analytical Chemistry
300876.2 Organic Chemistry
300899.2 Inorganic Chemistry

Note: 300899 Inorganic Chemistry is offered in Spring 2021

And one elective

Spring session

300849.3 Physical Chemistry
300907.2 Advanced Inorganic Chemistry

Note: 300907 Advanced Inorganic Chemistry is offered in Autumn 2021

Choose one of

301259.1 Work Internship for Science Professionals
301261.1 Complex Case Studies in Science

And one elective

Year 3

Autumn session

300926.2 Advanced Physical Chemistry
300906.2 Advanced Organic Chemistry

And two electives

Spring session

300883.2 Laboratory Quality Management
300925.2 Advanced Analytical Chemistry
300924.2 Science Research Project

And one elective

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

300811.2 Scientific Literacy
300802.3 Biodiversity
300808.3 Introductory Chemistry

And one elective

Spring session

300803.2 Essential Chemistry 2

Choose one of

300672.3 Mathematics 1A
300831.4 Quantitative Thinking

And two electives

Year 2

Autumn session

300832.2 Analytical Chemistry
300876.2 Organic Chemistry
300899.2 Inorganic Chemistry

Note: 300899 Inorganic Chemistry is offered in Spring 2021

300937.2 Advanced Science Project A

Spring session

300849.3 Physical Chemistry
300907.2 Advanced Inorganic Chemistry

Note: 300907 Advanced Inorganic Chemistry is offered in Autumn 2021

300938.2 Advanced Science Project B

Choose one of

301259.1 Work Internship for Science Professionals
301261.1 Complex Case Studies in Science

Year 3

Autumn session

300926.2 Advanced Physical Chemistry
300906.2 Advanced Organic Chemistry
301258.1 Advanced Science Research Project C

And one elective

Spring session

300883.2 Laboratory Quality Management
300925.2 Advanced Analytical Chemistry

300924.2 Science Research Project
301258.1 Advanced Science Research Project C

Diploma in Science/Bachelor of Science

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Full-time

Year 1: College Units

Standard 3 Term year

Preparatory unit

700043.3 Chemistry (WSTC Prep)

And

Eight University Level units comprising:

700095.3 Biodiversity (WSTC)
700125.3 Cell Biology (WSTC)
700122.3 Essential Chemistry 2 (WSTC)
700155.3 Introductory Chemistry (WSTC)
700123.3 Quantitative Thinking (WSTC)
700124.3 Scientific Literacy (WSTC)

Two units from the following (depending on the testamur major chosen)

700266.2 Concepts in Human Anatomy (WSTC)
700295.1 Concepts in Human Physiology (WSTC)
700296.1 Environmental Issues and Solutions (WSTC)
700265.2 Food Science 1 (WSTC)
700061.4 Introduction to Human Biology (WSTC)
700297.1 Management of Aquatic Environments (WSTC)
700298.1 Water Quality Assessment and Management (WSTC)

Year 2

Autumn session

300832.2 Analytical Chemistry
300876.2 Organic Chemistry
300899.2 Inorganic Chemistry

Note: 300899 Inorganic Chemistry is offered in Spring 2021

And one elective

Spring session

300849.3 Physical Chemistry
300907.2 Advanced Inorganic Chemistry

Note: 300907 Advanced Inorganic Chemistry is offered in Autumn 2021

Choose one of

301259.1 Work Internship for Science Professionals
301261.1 Complex Case Studies in Science

And one elective

Year 3

Autumn session

300926.2 Advanced Physical Chemistry
300906.2 Advanced Organic Chemistry

And two electives

Spring session

300883.2 Laboratory Quality Management
300925.2 Advanced Analytical Chemistry
300924.2 Science Research Project

And one elective

Major - Anatomy and Physiology

MT3028.1

This major focuses on human anatomy and physiology in relation to health and disease. You will develop detailed knowledge of how the human body functions, as well as practical skills. Your strong foundation in this discipline area will provide career opportunities in medical research, hospital pathology or medical imaging laboratories, pharmaceutical, medical sales, allied health companies, research and quality control laboratories, or further education, including graduate medicine degrees. Employment can be in other non-scientific areas such as insurance, government, law or publishing where science knowledge is valued. A variety of sub-majors or free electives allows students to design their own learning journey. 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.

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.

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

300811.2 Scientific Literacy

300802.3 Biodiversity
300808.3 Introductory Chemistry
301254.1 Concepts in Human Physiology

Spring session

300816.2 Cell Biology
301126.2 Concepts in Human Anatomy

Choose one of

300672.3 Mathematics 1A
300831.4 Quantitative Thinking

And one elective

Year 2**Autumn session**

300936.2 Functional Proteins and Genes
300894.3 Anatomy of the Thorax and Abdomen
301269.1 Human Systems Physiology 1

And one elective

Spring session

301270.1 Human Systems Physiology 2
300754.4 Neuroanatomy

Choose one of

301259.1 Work Internship for Science Professionals
301261.1 Complex Case Studies in Science

And one elective

Year 3**Autumn session**

300893.2 Topics in Medical Science

And 3 electives

Spring session

301260.1 Pathological Basis of Human Disease
301355.1 Advanced Physiology

Note: Unit 301355 Advanced Physiology replaces 300851 Advanced Physiology from Autumn 2020

And two electives

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**

300811.2 Scientific Literacy
300802.3 Biodiversity
300808.3 Introductory Chemistry
301254.1 Concepts in Human Physiology

Spring session

300816.2 Cell Biology
301126.2 Concepts in Human Anatomy

Choose one of

300672.3 Mathematics 1A
300831.4 Quantitative Thinking

And one elective

Year 2**Autumn session**

300936.2 Functional Proteins and Genes
300894.3 Anatomy of the Thorax and Abdomen
301269.1 Human Systems Physiology 1
300937.2 Advanced Science Project A

Spring session

301270.1 Human Systems Physiology 2
300938.2 Advanced Science Project B

Choose one of

301259.1 Work Internship for Science Professionals
301261.1 Complex Case Studies in Science

And one elective

Year 3**Autumn session**

300893.2 Topics in Medical Science
301258.1 Advanced Science Research Project C

And two electives

Spring session

301260.1 Pathological Basis of Human Disease
301258.1 Advanced Science Research Project C
301355.1 Advanced Physiology

Note: Unit 301355 Advanced Physiology replaces 300851 Advanced Physiology from Autumn 2020

And one elective

Diploma in Science/Bachelor of Medical Science

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Nirimba campus year one units only.

Full-time**Year 1: College units**

Standard 3 terms year

Preparatory unit

700043.3 Chemistry (WSTC Prep)

And

Eight university level units

comprising:

700095.3	Biodiversity (WSTC)
700125.3	Cell Biology (WSTC)
700295.1	Concepts in Human Physiology (WSTC)
700122.3	Essential Chemistry 2 (WSTC)
700155.3	Introductory Chemistry (WSTC)
700266.2	Concepts in Human Anatomy (WSTC)
700123.3	Quantitative Thinking (WSTC)
700124.3	Scientific Literacy (WSTC)

Year 2**Autumn session**

300936.2	Functional Proteins and Genes
300894.3	Anatomy of the Thorax and Abdomen
301269.1	Human Systems Physiology 1

And one elective

Spring session

301270.1	Human Systems Physiology 2
300754.4	Neuroanatomy

Choose one of

301259.1	Work Internship for Science Professionals
301261.1	Complex Case Studies in Science

And one elective

Year 3**Autumn session**

300893.2	Topics in Medical Science
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And 3 electives

Spring session

301260.1	Pathological Basis of Human Disease
301355.1	Advanced Physiology

Note: Unit 301355 Advanced Physiology replaces 300851 Advanced Physiology from Autumn 2020

And two electives

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**

300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry
301254.1	Concepts in Human Physiology

Spring session

301126.2	Concepts in Human Anatomy
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Choose one of

300803.2	Essential Chemistry 2
300816.2	Cell Biology

Choose one of

300831.4	Quantitative Thinking
300672.3	Mathematics 1A

And one elective

Year 2**Autumn session**

300936.2	Functional Proteins and Genes
300832.2	Analytical Chemistry

Choose one of

300899.2	Inorganic Chemistry
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Note: 300899 Inorganic Chemistry is offered in Spring 2021

300876.2	Organic Chemistry
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And one elective

Spring session

300884.3	Pharmacology
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Choose one of

- 301259.1** Work Internship for Science Professionals
301261.1 Complex Case Studies in Science

And two electives

Year 3

Autumn session

- 300893.2** Topics in Medical Science
300891.2 Advanced Medicinal Chemistry

And two electives

Spring session

- 300920.2** Pharmacological Chemistry
301260.1 Pathological Basis of Human Disease

And two electives

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

- 300811.2** Scientific Literacy
300802.3 Biodiversity
300808.3 Introductory Chemistry
301254.1 Concepts in Human Physiology

Spring session

- 301126.2** Concepts in Human Anatomy

Choose one of

- 300803.2** Essential Chemistry 2
300816.2 Cell Biology

Choose one of

- 300831.4** Quantitative Thinking
300672.3 Mathematics 1A

And one elective

Year 2

Autumn session

- 300936.2** Functional Proteins and Genes
300832.2 Analytical Chemistry
300937.2 Advanced Science Project A

Choose one of

- 300899.2** Inorganic Chemistry

Note: 300899 Inorganic Chemistry is offered in Spring 2021

- 300876.2** Organic Chemistry

Spring session

- 300884.3** Pharmacology
300938.2 Advanced Science Project B

Choose one of

- 301259.1** Work Internship for Science Professionals
301261.1 Complex Case Studies in Science

And one elective

Year 3

Autumn session

- 300893.2** Topics in Medical Science
300891.2 Advanced Medicinal Chemistry
301258.1 Advanced Science Research Project C

And one elective

Spring session

- 300920.2** Pharmacological Chemistry
301260.1 Pathological Basis of Human Disease
301258.1 Advanced Science Research Project C

And one elective

Major - Biomedical Science

MT3030.1

Biomedical science is a broad field that aims to understand the biology that underpins human health and disease. The coursework in this major will give you an integrated foundation in physiology and anatomy, along with biochemistry, cell biology and genetics. It will equip you with knowledge from which you can embark on unlimited career choices from research laboratories to hospital pathology to biomedical engineering, medical technology and beyond. The degree also allows for enrolment in sub-majors or free electives, so students can design their own learning journey. 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.

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 Biomedical Science requires the successful

completion of 240 credit points as per the recommended sequence below.

Full-time

Year 1

Autumn session

300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry
301254.1	Concepts in Human Physiology

Spring session

300816.2	Cell Biology
301126.2	Concepts in Human Anatomy

Choose one of

300672.3	Mathematics 1A
300831.4	Quantitative Thinking

And one elective

Year 2

Autumn session

300936.2	Functional Proteins and Genes
300845.2	Genetics
301267.1	Cell Form and Function

And one elective

Spring session

301251.1	Molecular Biology of the Cell
300848.2	Metabolism

Choose one of

301259.1	Work Internship for Science Professionals
301261.1	Complex Case Studies in Science

And one elective

Year 3

Autumn session

300893.2	Topics in Medical Science
300820.2	Genes, Genomics and Human Health

And two electives

Spring session

300927.3	Molecular Medicine
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And three electives

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

300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry
301254.1	Concepts in Human Physiology

Spring session

300816.2	Cell Biology
301126.2	Concepts in Human Anatomy

Choose one of

300672.3	Mathematics 1A
300831.4	Quantitative Thinking

And one elective

Year 2

Autumn session

300936.2	Functional Proteins and Genes
300845.2	Genetics
301267.1	Cell Form and Function
300937.2	Advanced Science Project A

Spring session

301251.1	Molecular Biology of the Cell
300938.2	Advanced Science Project B
300848.2	Metabolism

Choose one of

301259.1	Work Internship for Science Professionals
301261.1	Complex Case Studies in Science

Year 3

Autumn session

300893.2	Topics in Medical Science
300820.2	Genes, Genomics and Human Health
301258.1	Advanced Science Research Project C

And one elective

Spring session

300927.3	Molecular Medicine
301258.1	Advanced Science Research Project C

And two electives

Diploma in Science/Bachelor of Medical Science

Full-time

Year 1: College Units

Standard 3 terms year

Preparatory unit**700043.3** Chemistry (WSTC Prep)

And

Eight university level units comprising:

700095.3 Biodiversity (WSTC)
700125.3 Cell Biology (WSTC)
700266.2 Concepts in Human Anatomy (WSTC)
700295.1 Concepts in Human Physiology (WSTC)
700122.3 Essential Chemistry 2 (WSTC)
700155.3 Introductory Chemistry (WSTC)
700123.3 Quantitative Thinking (WSTC)
700124.3 Scientific Literacy (WSTC)

Year 2**Autumn session**

300936.2 Functional Proteins and Genes
300845.2 Genetics
301267.1 Cell Form and Function

And one elective

Spring session

301251.1 Molecular Biology of the Cell
300848.2 Metabolism

Choose one of

301259.1 Work Internship for Science Professionals
301261.1 Complex Case Studies in Science

And one elective

Year 3**Autumn session**

300893.2 Topics in Medical Science
300820.2 Genes, Genomics and Human Health

And two electives

Spring session**300927.3** Molecular Medicine

And three electives

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 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**Bachelor of Science**

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**

300811.2 Scientific Literacy
300802.3 Biodiversity
300808.3 Introductory Chemistry
300824.2 Management of Aquatic Environments

Spring

300816.2 Cell Biology
301271.1 Environmental Issues and Solutions

Choose one of

300831.4 Quantitative Thinking
200263.6 Biometry

And one elective

Year 2**Autumn**

300872.2 Epidemiology
300833.3 Microbiology 1
300361.4 Introduction to Human Biology

And one elective

Spring

300877.2 Toxicology
301273.1 Land Degradation and Contamination
301403.1 Environmental Planning, Policy & Regulation

Choose one of

301259.1 Work Internship for Science Professionals
301261.1 Complex Case Studies in Science

Year 3**Autumn**

300913.2 Field Project 1
 301276.1 Air Pollution & Control
 300919.2 Occupational Health and Safety

And one elective

Spring

300859.2 Food Safety
 300880.2 Disaster and Emergency Management
 300867.2 Disease Prevention and Control

And one elective

Diploma in Science/Bachelor of Science

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Full-time

Year 1: College Units

Standard 3 term year

Preparatory unit

700043.3 Chemistry (WSTC Prep)

Eight University Level units comprising

700125.3 Cell Biology (WSTC)
 700124.3 Scientific Literacy (WSTC)
 700155.3 Introductory Chemistry (WSTC)
 700095.3 Biodiversity (WSTC)
 700123.3 Quantitative Thinking (WSTC)
 700297.1 Management of Aquatic Environments (WSTC)
 700296.1 Environmental Issues and Solutions (WSTC)

And one elective

Year 2

Autumn

300872.2 Epidemiology
 300833.3 Microbiology 1
 300361.4 Introduction to Human Biology

And one elective

Spring

300877.2 Toxicology
 301273.1 Land Degradation and Contamination
 301403.1 Environmental Planning, Policy & Regulation

Choose one of

301259.1 Work Internship for Science Professionals
 301261.1 Complex Case Studies in Science

Year 3

Autumn

300913.2 Field Project 1
 301276.1 Air Pollution & Control
 300919.2 Occupational Health and Safety

And one elective

Spring

300859.2 Food Safety
 300880.2 Disaster and Emergency Management
 300867.2 Disease Prevention and Control

And one elective

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 session

300672.3 Mathematics 1A
 300802.3 Biodiversity
 300808.3 Introductory Chemistry
 301108.2 Thinking About Data

Spring session

300811.2 Scientific Literacy
 300580.4 Programming Fundamentals

Choose one of

300803.2 Essential Chemistry 2
 300816.2 Cell Biology

And one elective

Year 2

Autumn session

200025.3 Discrete Mathematics

301107.2 Analytics Programming
301109.3 Visual Analytics

And one elective

Spring session

300958.4 Social Web Analytics
301034.2 Predictive Modelling

Choose one of

301259.1 Work Internship for Science Professionals
301261.1 Complex Case Studies in Science

And one elective

Year 3

Autumn session

301250.1 Probabilistic Models and Inference

And three electives

Spring session

301110.2 Applications of Big Data
301111.3 Discovery Project

And two electives

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.

Bachelor of Advanced Science

Qualification for the award of Bachelor of Advanced 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 session

300672.3 Mathematics 1A
300802.3 Biodiversity
300808.3 Introductory Chemistry
301108.2 Thinking About Data

Spring session

300811.2 Scientific Literacy
300580.4 Programming Fundamentals

Choose one of

300803.2 Essential Chemistry 2
300816.2 Cell Biology

And one elective

Year 2

Autumn session

200025.3 Discrete Mathematics
301107.2 Analytics Programming
301109.3 Visual Analytics
300937.2 Advanced Science Project A

Spring session

300958.4 Social Web Analytics
301034.2 Predictive Modelling
300938.2 Advanced Science Project B

Choose one of

301259.1 Work Internship for Science Professionals
301261.1 Complex Case Studies in Science

Year 3

Autumn session

301250.1 Probabilistic Models and Inference
301258.1 Advanced Science Research Project C

And two electives

Spring session

301110.2 Applications of Big Data
301111.3 Discovery Project
301258.1 Advanced Science Research Project C

And one elective

Diploma in Science/Bachelor of Science

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Full-time

Year 1: College Units

Standard 3 Term year

Preparatory Unit

700043.3 Chemistry (WSTC Prep)

Eight University Level units

700125.3 Cell Biology (WSTC)
700122.3 Essential Chemistry 2 (WSTC)
700124.3 Scientific Literacy (WSTC)
700155.3 Introductory Chemistry (WSTC)
700095.3 Biodiversity (WSTC)
700123.3 Quantitative Thinking (WSTC)

Choose two of (depending on the testamur major chosen)

700266.2	Concepts in Human Anatomy (WSTC)
700265.2	Food Science 1 (WSTC)
700061.4	Introduction to Human Biology (WSTC)
700295.1	Concepts in Human Physiology (WSTC)
700297.1	Management of Aquatic Environments (WSTC)
700296.1	Environmental Issues and Solutions (WSTC)
700298.1	Water Quality Assessment and Management (WSTC)

Year 2

Autumn session

200025.3	Discrete Mathematics
301107.2	Analytics Programming
301109.3	Visual Analytics
301108.2	Thinking About Data

Spring session

300580.4	Programming Fundamentals
300958.4	Social Web Analytics
301034.2	Predictive Modelling

Choose one of

301259.1	Work Internship for Science Professionals
301261.1	Complex Case Studies in Science

Year 3

Autumn session

301250.1	Probabilistic Models and Inference
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And three electives

Spring session

301110.2	Applications of Big Data
301111.3	Discovery Project

And two electives

Major - Biology

MT3042.1

Biology is underpinned by cells, the fundamental units necessary for organisms to grow, reproduce and interact with each other and the environment. Cells are also the basis of emerging computer models and bio-technology innovations. Biologists integrate principles from many disciplines, including chemistry, bio-physics, genetics, biochemistry, physiology and bioinformatics, for a more complete understanding of animal, plant and microbial cell function. Understanding these processes and the principles that govern the organization and function of cells are a necessary framework for creating the next advances in developmental biology and disease mitigation. At WSU, the strong emphasis on hands-on experience gives biology graduates an excellent foundation for careers in: teaching, academia, research, biotechnology, industry, law and administration. The flexibility of the major also enables

students to combine their interest with other disciplines including ecology, environment, zoology and agriculture and environmental health..

Location

Campus	Mode
Campbelltown Campus	Internal
Hawkesbury Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

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

300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry

And one elective

Spring session

300803.2	Essential Chemistry 2
300816.2	Cell Biology

Choose one of

300831.4	Quantitative Thinking
300672.3	Mathematics 1A

And one elective

Year 2

Autumn session

300936.2	Functional Proteins and Genes
300833.3	Microbiology 1
300845.2	Genetics

And one elective

Spring session

301251.1	Molecular Biology of the Cell
300838.2	Comparative Physiology

Choose one of

301261.1	Complex Case Studies in Science
301259.1	Work Internship for Science Professionals

And one electives

Year 3

Autumn session

300909.2	Biological Adaptation to Climate Change
301272.1	Plant Science
301406.1	Applied Bioinformatics

And one elective

Spring session

301405.1 Molecular Biotechnology

And three electives

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 SM1 100 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

300811.2 Scientific Literacy
300802.3 Biodiversity
300808.3 Introductory Chemistry

And one elective

Spring session

300803.2 Essential Chemistry 2
300816.2 Cell Biology

Choose one of

300831.4 Quantitative Thinking
300672.3 Mathematics 1A

And one elective

Year 2

Autumn session

300936.2 Functional Proteins and Genes
300833.3 Microbiology 1
300845.2 Genetics
300937.2 Advanced Science Project A

Spring session

301251.1 Molecular Biology of the Cell
300938.2 Advanced Science Project B
300838.2 Comparative Physiology

Choose one of

301261.1 Complex Case Studies in Science
301259.1 Work Internship for Science Professionals

Year 3

Autumn session

300909.2 Biological Adaptation to Climate Change
301272.1 Plant Science
301258.1 Advanced Science Research Project C
301406.1 Applied Bioinformatics

Spring session

301405.1 Molecular Biotechnology
301258.1 Advanced Science Research Project C

And two electives

Diploma in Science/Bachelor of Science

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Full-time

Year 1: College Units

Standard 3 Term year

Preparatory unit

700043.3 Chemistry (WSTC Prep)

And

Eight University Level units comprising:

700125.3 Cell Biology (WSTC)
700122.3 Essential Chemistry 2 (WSTC)
700124.3 Scientific Literacy (WSTC)
700155.3 Introductory Chemistry (WSTC)
700095.3 Biodiversity (WSTC)
700123.3 Quantitative Thinking (WSTC)
700061.4 Introduction to Human Biology (WSTC)

And

One unit from the following (depending on the testamur major chosen)

700265.2 Food Science 1 (WSTC)
700295.1 Concepts in Human Physiology (WSTC)
700297.1 Management of Aquatic Environments (WSTC)
700296.1 Environmental Issues and Solutions (WSTC)
700298.1 Water Quality Assessment and Management (WSTC)
700266.2 Concepts in Human Anatomy (WSTC)

Year 2

Autumn session

300936.2 Functional Proteins and Genes

300833.2 Microbiology 1
300845.2 Genetics

And one elective

Spring session

301251.1 Molecular Biology of the Cell
300838.2 Comparative Physiology

Choose one of

301261.1 Complex Case Studies in Science
301259.1 Work Internship for Science Professionals

And one elective

Year 3

Autumn session

300909.2 Biological Adaptation to Climate Change
301272.1 Plant Science
301406.1 Applied Bioinformatics

And one elective

Spring session

301405.1 Molecular Biotechnology

And three electives

Major - Sustainable Environmental Futures

MT3043.1

Managing our environment sustainably requires professionals who are trained in new technologies across multiple disciplines, including biological and physical sciences, risk assessment, policy and management. Understanding how life interacts with water, soil and the atmosphere empowers us to develop sustainable management solutions for our most pressing environmental challenges. You will learn how to apply fundamental scientific knowledge to evaluate and mitigate the impacts of human activities on natural and managed ecosystems, including the built environment. You will have access to world class ecological and environmental research facilities, and will engage in hands-on, field-based learning, taught by a team at the cutting edge of research in this field. As a graduate, you are prepared for a career in environmental management, consultancy and biological conservation. 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.

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 Sustainable Environmental Futures requires the successful completion of 240 credit points as per the recommended sequence below:

Full-Time

Year 1

Autumn session

300811.2 Scientific Literacy
300802.3 Biodiversity
300808.3 Introductory Chemistry
300824.2 Management of Aquatic Environments

Spring session

300816.2 Cell Biology
301407.1 Introduction to Environmental Science

Choose one of

300831.4 Quantitative Thinking
300672.3 Mathematics 1A
200263.6 Biometry

And one elective

Year 2

Autumn session

300932.2 Natural Science Research Methods
301408.1 Environmental Monitoring and Assessment
300837.2 Climate Change Science

And one elective

Spring session

300839.2 Ecology

Choose one of

301261.1 Complex Case Studies in Science
301259.1 Work Internship for Science Professionals

And two electives

Year 3

Autumn session

300913.2 Field Project 1
300870.2 Water in the Landscape

And two electives

Spring session

301409.1 Sustainable Environments
301212.2 Science of the Anthropocene

And two electives

Bachelor of Science (Pathway to Teaching Primary/Secondary)

Qualification for the Bachelor of Science (Pathway to Teaching Primary/Secondary) with a major in Sustainable Environmental Futures requires the successful completion of 240 credit points as per the recommended sequence for the Bachelor of Science with a major in Sustainable Environmental Futures, 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 Sustainable Environmental Futures requires the successful completion of 240 credit points as per the recommended sequence below.

Full-Time

Year 1

Autumn session

300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry
300824.2	Management of Aquatic Environments

Spring session

300816.2	Cell Biology
301407.1	Introduction to Environmental Science

Choose one of

300831.4	Quantitative Thinking
300672.3	Mathematics 1A
200263.6	Biometry

And one elective

Year 2

Autumn session

300932.2	Natural Science Research Methods
301408.1	Environmental Monitoring and Assessment
300837.2	Climate Change Science
300937.2	Advanced Science Project A

Spring session

300839.2	Ecology
300938.2	Advanced Science Project B

Choose one of

301261.1	Complex Case Studies in Science
301259.1	Work Internship for Science Professionals

And one elective

Year 3

Autumn session

300913.2	Field Project 1
300870.2	Water in the Landscape
301258.1	Advanced Science Research Project C

And one elective

Spring session

301409.1	Sustainable Environments
301212.2	Science of the Anthropocene
301258.1	Advanced Science Research Project C

And one elective

Diploma in Science/Bachelor of Science

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Full-time

Year 1: College Units

Standard 3 Term year

Preparatory unit

700043.3	Chemistry (WSTC Prep)
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And

Eight University Level units comprising:

700125.3	Cell Biology (WSTC)
700122.3	Essential Chemistry 2 (WSTC)
700124.3	Scientific Literacy (WSTC)
700155.3	Introductory Chemistry (WSTC)
700095.3	Biodiversity (WSTC)
700123.3	Quantitative Thinking (WSTC)
700297.1	Management of Aquatic Environments (WSTC)

And

One unit from the following (depending on the testamur major chosen)

700265.2	Food Science 1 (WSTC)
700061.4	Introduction to Human Biology (WSTC)
700295.1	Concepts in Human Physiology (WSTC)
700296.1	Environmental Issues and Solutions (WSTC)
700298.1	Water Quality Assessment and Management (WSTC)
700266.2	Concepts in Human Anatomy (WSTC)

Year 2

Autumn session

300932.2	Natural Science Research Methods
301408.1	Environmental Monitoring and Assessment
300837.2	Climate Change Science

And one elective

Spring session

- 300839.2** Ecology
301407.1 Introduction to Environmental Science

Choose one of

- 301261.1** Complex Case Studies in Science
301259.1 Work Internship for Science Professionals

And one elective

Year 3**Autumn session**

- 300913.2** Field Project 1
300870.2 Water in the Landscape

And two electives

Spring session

- 301409.1** Sustainable Environments
301212.2 Science of the Anthropocene

And two electives

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
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 pool

Level 1 unit

- 102805.1** Indigenous Landscapes

Level 2 units

- 101752.2** Pigments of the Imagination

- 101753.3** Revaluing Indigenous Economics (Day Mode)
101754.3 From Corroborees to Curtain Raisers (Day Mode)
101755.2 From Ochre to Acrylics to New Technologies

Level 3 units

- 101756.2** Bridging the Gap: Re-engaging Indigenous Learners
101757.2 The Making of the 'Aborigines'
101758.2 Learning through Indigenous Australian Community Service (Day Mode)
101759.2 Rethinking Research with Indigenous Australians: Independent Study Project (Day Mode)

Equivalent Specialisation Units

The Level 3 unit listed below counts towards completion of the Sub-major for students who successfully completed the unit in 2019 or earlier.

100961 - Humanities Internship

The Level 1 unit listed below counts towards completion of the Sub-major for students who successfully completed the unit in Autumn 2020 or earlier.

101878 - Indigenous Landscapes

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
102529.2	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
101468.2	Islam, Media and Conflict
102781.1	Labour and Culture
102789.1	Philosophy of Race and Racism
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
 The Level 3 unit listed below counts towards completion of the Sub-major for students who successfully completed the unit in 2019 or earlier.
 100961 - Humanities Internship

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
101907.1	Introduction to Literary Studies
101909.1	Methods of Reading
102765.1	The Value of Literature

The unit listed below counts as a compulsory unit towards completion of this Sub-major for students who passed this unit in 2019 or earlier.

101976 - English Literature After 1830

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
101909.1	Methods of Reading
102765.1	The Value of Literature

The unit listed below counts as a compulsory unit towards completion of this Sub-major for students who passed this unit in 2019 or earlier.

101976 - English Literature After 1830

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
102626.1	Medieval and Early Modern Literature
102626.1	Medieval and Early Modern Literature
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
102772.1	Writing and Reading Sci-Fi and Fantasy
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
102205.2	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
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
101670.3	Writing and Society
100895.4	Writing For Performance
101011.3	Writing Poetry

Please note

The Level 2 and 3 units listed below count towards completion of this Sub-major for students who passed these units in 2016 or earlier.

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

The Level 3 units listed below count towards completion of this Sub-major for students who passed these units in 2019 or earlier.

100961 -	Humanities Internship
101908 -	Writing and Reading Sci Fi and Fantasy

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.

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

102768.1	When Worlds Collide: European Empires and the World, c.1600-1950
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- 102000.1** Modern European History and Politics
101992.1 Religion and the Emergence of Modern Politics
102766.1 Historical Methodologies

Important Note: To meet NESA subject area teaching requirements students who wish to teach modern history must include one unit of Ancient History. This may be attained by approved cross-institutional study, by completing the level 3 unit 102492 Catastrophe: The Environmental History of the Ancient and Modern World, or by completing the level 2 unit 100244 Ancient Western Culture: Periclean Athens. It is also strongly recommended that students select at least one Australian history unit.

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
101967.1 Cultural History of Books and Reading
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
102479.1 Cultures of Crime and Punishment
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
102734.1 History of Religion
101991.1 History of Sexuality
100507.4 History of Modern China to 1949
102184.1 History of Muslim Civilisations and Ideas
101988.1 Human Rights and Culture
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
101913.2 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?

Equivalent Specialisation Units

The Level 2 and Level 3 units listed below count towards completion of the major for students who successfully completed the units in 2015 or earlier.

Level 2

- 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

- 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
 102006 - Histories of Crime and Punishment
 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

The Level 1, Level 2 and Level 3 units listed below count towards completion of the major for students who successfully completed the units in 2019 or earlier.

Level 1

101910 - Global History

Level 2

101973 - Australian Politics

100861 - Empire: European Colonial Rule and its Subjects 1750-1920

Level 3

100961 - Humanities Internship

102522 - International Study Tours

102001 - Theories and Methods of History

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
102189.1	International Organisations and Global Governance
102190.1	International Relations of Southeast Asia
102193.1	International Special Study
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.

Level 1

101737 - World Politics: An Introduction

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?

The Level 3 units listed below count towards completion of the sub-major for students who successfully completed the units in 2019 or earlier.

100961 - Humanities Internship
 102522 - International Study Tours

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
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
100875.4 Literature and Philosophy
100275.4 Philosophies of Love and Death
102417.1 Philosophy and Environment
102493.1 Philosophy of History
102789.1 Philosophy of Race and Racism
101965.2 Philosophy of Religion
100969.2 Theories of Conflict and Violence
101913.2 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

The Level 3 unit listed below counts towards completion of the sub-major for students who successfully completed the unit in 2019 or earlier.

100961 - Humanities Internship

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

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.

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
102804.1 Japanese 204: Speaking and Listening

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

Equivalent Specialisation Units

The Specialisation unit listed below count towards completion of this major for students who passed this unit in Autumn 2020 or earlier.

- 102031 - Japanese 204

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
Parramatta Campus - Victoria Road	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
102326.2 Indonesian 102

Level 2 units

- 102319.2** Indonesian 201
102327.1 Indonesian 202

Level 3 units

- 102773.1** Indonesian 301
102774.1 Indonesian 302
102775.1 Indonesian 303
102776.1 Indonesian 304
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

Equivalent Specialisation Units

- 102320 - Indonesian 301: Indonesian for Academic Purposes
 102328 - Indonesian 302: Indonesian for Professional Purposes
 102329 - Indonesian 303: Indonesian for Business
 102330 - Indonesian 304: Contemporary Indonesia

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 - Psychological Studies**SM1115.1**

The Psychological Studies sub-major comprises units in the discipline of psychology that focus on the field of inquiry that uses scientific techniques and methods to understand and explain behaviour and experience. Areas of study include: the brain and behaviour, learning, motivation and emotion, social psychology, lifespan development, perception and cognitive processes. A Psychological Studies sub-major does not meet APAC requirements for an accredited sequence in Psychology. Students wishing to enrol in an accredited Psychology sequence should complete the Psychology key program of 160 credit points.

Location

Campus	Mode
Bankstown Campus	Internal

Campus

Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Mode**Specialisation Structure**

Students must successfully complete 40 credit points from the units below.

Students must complete the following two compulsory units

- 101183.4** Psychology: Behavioural Science
101184.4 Psychology: Human Behaviour

And

20 credit points from the following Level 2/3 unit pools.

Level 2 unit pool

- 101684.5** Brain and Behaviour
100013.4 Experimental Design and Analysis
101676.4 Human Learning
101680.5 Perception

Level 3 unit pool

- 101681.6** Abnormal Psychology
101689.4 Advanced Research Methods
101677.5 Cognitive Processes
101682.7 Developmental Psychology
101193.5 Health Psychology
100015.7 History and Philosophy of Psychology
101678.5 Motivation and Emotion
101679.4 Personality
102350.3 Psychology and the Online World
100023.7 Psychology of Language
101683.4 Social Psychology

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
- 102626.1** Medieval and Early Modern Literature
- 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
- 102772.1** Writing and Reading Sci-Fi and Fantasy

- 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
- 102205.2** 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
- 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
- 101670.3** Writing and Society
- 100895.4** Writing For Performance
- 101011.3** Writing Poetry

Please note

The Level 2 and 3 units listed below count towards completion of this Sub-major for students who passed these units in 2019 or earlier.

Level 2 units

- 101869 - Studies in Postcolonial Literature

Level 3 units

- 101966 - Literatures of Decolonisation

The Level 3 units listed below count towards completion of this Sub-major for students who passed these units in 2019 or earlier.

- 100961 - Humanities Internship

- 101908 - Writing and Reading Sci Fi and Fantasy

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.

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
101948.4	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
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Level 3 Unit Pool

101946.1	Discourse Analysis
102043.1	Historical Linguistics
101950.1	Intercultural Communication
100023.7	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 - 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
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- 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 - Culture and Society

SM1138.1

Culture and Society 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
102529.2	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
101468.2	Islam, Media and Conflict
102781.1	Labour and Culture
102789.1	Philosophy of Race and Racism
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?

Sub-major - International English

SM1139.1

International English engages students in a systematic and structured study of the English language and its variations across time and contexts. Students learn to recognise and work with the uses and features of the language that are essential to a wide range of social, academic and professional contexts. The sub-major provides a solid and

comprehensive foundation for students who aim to work professionally with English in different contexts and countries, especially those intending to pursue post-graduate qualifications in education. The sub-major focuses on varieties and structures of English, informed by studies of English in specific discourse settings, and specifically aims to ensure that students understand the language and its use very well and that they possess a highly developed capacity to use English well across a range of contexts.

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
102812.1	English Text
102813.1	English Talk

Sub-major - History and Political Thought

SM1145.1

Since the revival of humanist thought in the Renaissance, universities have placed studies in history and political thought at the centre of intellectual inquiry. History and politics have always examined contentious issues. Students learn to deal with conflicting information, appreciate the different ways societies have resolved issues in the past and develop skills that enable them to become responsible and active citizens. The History and Political Thought sub major requires students to select two of four compulsory units which introduce the student to historical periods from the Ancient World to the 20th century, culminating in a capstone unit that discusses the development of historical methodology from ancient times to the present. The remaining two units can be selected from a pool that encompass political thought and historical developments across time and space, enabling students to select fields of particular interest.

Location

Campus	Mode
Bankstown Campus	Internal
Parramatta Campus - Victoria Road	Internal
Penrith Campus	Internal

Specialisation Structure

Students must successfully complete four units (40 credit points) as follows

Complete two of the compulsory units

102766.1	Historical Methodologies
102814.1	History of the Ancient World

102000.1 Modern European History and Politics
102768.1 When Worlds Collide: European Empires and the World, c.1600-1950

Students may also complete up to 2 units from the following unit pools.

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
101967.1 Cultural History of Books and Reading
100001.3 Keeping the Past
101797.2 Political Terror
100882.3 Politics of Sex and Gender
101992.1 Religion and the Emergence of Modern Politics
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
102835.1 Catastrophe: The Environmental History of the Ancient 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
102734.1 History of Religion
101991.1 History of Sexuality
100507.4 History of Modern China to 1949
102184.1 History of Muslim Civilisations and Ideas
102842.1 History of the People's Republic of China
101988.1 Human Rights and Culture
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
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
101913.2 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?

Equivalent Specialisation Unit

The Specialisation unit listed below count towards completion of this major for students who passed this unit in 2021 or earlier.

63178 - Social and Political Developments in Contemporary China

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

300833.3 Microbiology 1
300896.2 Microbiology 2

Level 3

300866.2 Analytical Microbiology
300826.2 Medical Microbiology

Sub-major - Environmental Health

SM3113.1

The Environmental Health sub-major offers focused knowledge and skills associated with understanding environmental factors that influence and contribute to health. Students will focus on and further develop in areas associated with food safety, toxicology, water and air quality, disease prevention and disaster and emergency management. The sub-major is suitable as a complementary area of study for students in a broad range of courses across the university, and is recommended for health science students in public health, health promotion and health services management. Students should note that travel to other campuses may be required.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete four units as follows

Choose four of

300859.2	Food Safety
300877.2	Toxicology
300867.2	Disease Prevention and Control
300824.2	Management of Aquatic Environments
301276.1	Air Pollution & Control
300880.2	Disaster and Emergency Management

Sub-major - Infectious Diseases

SM3114.1

Infectious diseases are a major threat to health across the globe, including increasing threats from new pathogens and the emergence of antibiotic resistance in established pathogens. This sub-major will examine organisms that typically cause infectious disease and will deliver skills and knowledge on how these interact with the immune system, cause disease, and are diagnosed and treated. This will be allied to learning and developing skills in epidemiology, how epidemics can be controlled and prevented, and the principle of risk management. This sub-major will be useful for future population health professionals, medical scientists, researchers, or those involved in biological risk management.

Location

Campus	Mode
Campbelltown Campus	Internal
Hawkesbury Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must complete four units as follows

300833.2	Microbiology 1
300872.2	Epidemiology
300826.2	Medical Microbiology
300867.2	Disease Prevention and Control

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.

301164.3 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.

301247.2 A Cosmic Perspective

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge of Mathematics equivalent to 2-unit HSC, and experience with the use of computer software such as Excel or Word would be beneficial. Previous experience of

statistics or computer programming will be an advantage but is not essential.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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The unit explores and challenges scientific as well as cultural perspectives on the cosmos, from its composition, expansion and the development and endings of the stars and planets, to life, its limits, evolution and mass extinctions on Earth. The unit also considers the development of consciousness, astrology vs astronomy, expanding horizons, space travel and space exploration.

101681.6 Abnormal Psychology

Credit Points 10 **Level** 3

Assumed Knowledge

A basic understanding of core concepts of personality, social and developmental psychology

Prerequisite

101183.3 Psychology: Behavioural Science AND **101184.3** Psychology: Human Behaviour

Please note the pre-requisite requirement of the unit 101183 Psychology: Behavioural Science does not apply to students enrolled in the Graduate Diploma of Psychological Studies.

Equivalent Units

100004 - Abnormal Behaviour and Psychological Testing

Incompatible Units

102538 - Abnormal Psychology (online)

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Abnormal Psychology is the study of behaviours that cause distress or dysfunction or are judged as deviant within the individual's culture. This unit examines definitions of abnormality, ways of assessing and diagnosing abnormality, theories of the causation of psychological abnormality and treatments for recognized psychological disorders. Diagnostic criteria from the latest edition of the Diagnostic and Statistical Manual of Mental Disorders are applied to illustrative cases with emphasis on contemporary Australian research and theory. The development of integrated models of abnormality, including biological, psychological and social factors, is a significant theme of the unit.

200193.3 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.

900021.3 Academic English (WSTC)

Credit Points 10 **Level** Z

Equivalent Units

700056 - Academic English (WSTC Prep) 700210 - Introduction to Academic Communication 2 900108 - Introduction to Academic Communication 2

Unit Enrolment Restrictions

Students must be enrolled in a Western Sydney University, The College Foundation Studies course.

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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.

900097.1 Academic Skills for Arts (WSTC)

Credit Points 10 **Level** Z

Equivalent Units

700211 - Academic Skills for Arts (UWSCFS)

Unit Enrolment Restrictions

Students must be enrolled at The College in a Foundation Studies course.

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This unit introduces students to the essential academic skills required for success in tertiary studies. It employs an explicit pedagogy approach to teach students how to become independent, active, and reflective learners. The unit also includes essential research and writing skills specific to the arts.

900098.1 Academic Skills for Business (WSTC)

Credit Points 10 **Level** Z

Equivalent Units

700248 - Academic Skills for Business 700214 - Academic Skills for Business and Commerce

Unit Enrolment Restrictions

Students must be enrolled at The College in a Foundation Studies course

Special Requirements - Essential Equipment

Access to vUWS, access to a computer lab, access to library resources and facilities

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This unit introduces students to the essential academic skills required for success in tertiary studies. It employs an explicit pedagogical approach to teach students how to become independent, active, and reflective learners. The unit also includes essential research and writing skills specific to the study of Business.

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 and 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. The unit also develops basic competencies in using computers and application software for the Building Design Management and Construction Management industries. The unit covers the use of word-processing software and spreadsheets. Students are also introduced to project management and design software.

900099.1 Academic Skills for Health Science (WSTC)

Credit Points 10 **Level** Z

Equivalent Units

700225 - Academic Skills for Health Science (UWSCFS)

Unit Enrolment Restrictions

Students must be enrolled at The College in a Foundation Studies course

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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 referencing.

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.

900100.1 Academic Skills for Information Communications Technology (WSTC)

Credit Points 10 Level Z

Equivalent Units

700205 - Academic Skills for ICT (UWSCFS)

Unit Enrolment Restrictions

Students must be enrolled at The College in a Foundation Studies course

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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 required to be successful in an Information Communications Technology course- research, analysis, problem solving, communication and team work.

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.

900101.1 Academic Skills for Science (WSTC)

Credit Points 10 Level Z

Equivalent Units

700230 - Academic Skills for Science (UWSCFS)

Unit Enrolment Restrictions

Students must be enrolled in a Foundation Studies course at 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.

900010.3 Accounting Fundamentals (WSTC)

Credit Points 5 Level Z

Equivalent Units

700046 - Accounting Fundamentals (WSTC Prep)

Unit Enrolment Restrictions

Students must be enrolled in a Western Sydney University The College Foundation Studies course.

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Accounting is the practice of recording, classifying, summarising, analysing and interpreting information, of a commercial nature for the purpose of helping people make decisions. In the world of business, the role of accounting is to support management in providing timely and accurate financial information about the business so that informed decisions can be made. This unit examines the basic principles underpinning accounting and connects the accounting process to financial decision making for a business.

200972.2 Accounting in Context

Credit Points 10 Level 1

Equivalent Units

700274 - Accounting in Context (WSTC), 200103 - Accounting Reports and Decisions, 700005 - Accounting Information for Managers (WSTC), 700078 - Accounting Information for Managers (Creative Industries), 61111 - Introductory Financial Accounting

Incompatible Units

200101 - Accounting Information for Managers

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.

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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.

200101.7 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, 3762, 2769, 3692, 3727, 2773, 2739 or 2753, or any combined Bachelor of Business course. Students in 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.

700005.7 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.

300954.2 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.

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.

300925.2 Advanced Analytical Chemistry

Credit Points 10 **Level** 3

Prerequisite

300832.1 Analytical Chemistry

Equivalent Units

300298 - Analytical Chemistry 3, 300537 - Advanced Chemical Analysis

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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.

301010.2 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

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.

301233.1 Advanced Building Measurement

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Students must complete 200 credit points before enrolling in this unit.

This unit is designed to help students develop greater understanding of measurement for complex building works such as commercial and industrial construction. Students will be introduced to measurement used in specialised trades, such as building services and structural steel.

200028.4 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

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.

300953.2 Advanced Clinical Classification

Credit Points 10 **Level** 3

Prerequisite

300951.2 Clinical Classification and Coding

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.

301363.1 Advanced Cloud Computing

Credit Points 10 **Level** 7

Prerequisite

301042.2 Cloud Computing

This unit offers the Amazon Web Services (AWS) Academy "Academy Cloud Architecting" (ACA) curriculum and provides deeper understanding of advanced cloud computing services and how to architect cloud solutions. Students will learn advanced cloud computing concepts including notification and messaging, serverless computing, API gateways, NoSQL databases, and content delivery networks. The unit also explores strategies to enable high scalability, reliability, cost-efficiency, performance, and operational excellence in a cloud-based system. 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.

301008.2 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.

301023.2 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.

301022.2 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.

300586.3 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.

300587.3 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.

300588.3 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.

900076.2 Advanced Computer Studies (WSTC)

Credit Points 10 Level Z

300603.4 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.

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.

300173.4 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

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.

301019.2 Advanced Dynamic Systems

Credit Points 10 Level 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

This unit covers three-dimensional kinematics and kinetics of a rigid body. The principles of virtual work are used to investigate the equilibrium and dynamics of mechanisms. Some key aspects of mechanical vibrations are introduced, including vibration response, vibration isolation and vibration measurement.

300601.4 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

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.

300969.2 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.

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.

300970.2 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.

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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.

300666.3 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.

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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.

300667.3 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.

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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.

300604.4 Advanced Geotechnical Engineering

Credit Points 10 **Level** 7

Assumed Knowledge

Fundamental knowledge of soil mechanics.

Equivalent Units

300520 - Foundation Engineering (PG)

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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This unit will provide an overview of soil mechanics concepts required for the solution of practical geotechnical engineering problems. Students will be taught soil and foundation analysis including design techniques. The topics will cover shallow foundations, pile foundations, the stability of earth retaining structures, excavations, soft soils, groundwater flow and stability of slopes. Practical engineering cases will be emphasized.

301011.3 Advanced Highway Infrastructure

Credit Points 10 **Level** 7

Assumed Knowledge

Soil mechanics at undergraduate level.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit teaches pavement design and ground engineering design as part of construction of the highway. The aim is to provide students with advanced knowledge in designing pavement structures and ground improvement techniques to deal with soft and weak grounds for construction of highway and highway embankments. These aspects will be taught in relation to Australian practices.

300905.2 Advanced Immunology

Credit Points 10 **Level** 3

Prerequisite

300936.1 Functional Proteins and Genes

Equivalent Units

300757 - Molecular Biological of the Immune System

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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.

300907.2 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.

301176.2 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.

.....

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.

300891.2 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

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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.

301020.2 Advanced Mobile Robotics

Credit Points 10 **Level** 7

Assumed Knowledge

Some basic skills in MATLAB and C/C++ programming.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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This unit is designed to develop an understanding of the concepts involved in Mobile Robotics. The areas of mobile robot mechanics, localisation, map building and path planning will be introduced. Various sensors and their applications in mobile robotics are also to be introduced.

301128.2 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.

301024.2 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.

300906.2 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.

300926.2 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.

.....

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.

301355.1 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, 300851 - Advanced Physiology

Special Requirements - Essential Equipment

Laboratory coat, safety goggles, enclosed footwear.

.....

From 2020 this unit replaces 300851 - Advanced Physiology. 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.

301025.2 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.

101689.4 Advanced Research Methods

Credit Points 10 **Level** 3

Assumed Knowledge

Knowledge of experimental design, and basic quantitative analysis techniques up to and including one-way Analysis of Variance.

Prerequisite

100013.3 Experimental Design and Analysis

Equivalent Units

100006 - Advanced Survey Design and Analysis

.....

This unit advances upon the research methods and statistics taught in the prerequisite unit, Experimental Design and Analysis. It introduces students to nonexperimental, correlational research design, and develops skills in survey research, including questionnaire design and administration, and survey sampling. Knowledge and skills in the construction and evaluation of psychological tests are also taught. Accompanying correlational statistical techniques are taught, together with advanced analysis of variance, and instruction in the use of SPSS. The unit also develops skills in conducting and reporting psychological research.

300599.4 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

.....

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.

300937.2 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.

300938.2 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).

.....

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.

301258.1 Advanced Science Research Project C

Credit Points 20 **Level** 3

Assumed Knowledge

It is assumed that students have completed at least 40 credit points at Level 2 in their area of research. This should be discussed with the research supervisor prior to acceptance into the research team

Prerequisite

300937.1 Advanced Science Project A

Unit Enrolment Restrictions

Students must be enrolled in 3757 B. Advanced Science and 3758 B. Advance Medical Science and have completed at least 60 credit points at level 2.

Special Requirements - Essential Equipment

Students are expected to provide their own personal protection equipment which will be project dependant.

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This unit provides a unique opportunity for Advanced Science and Advanced Medical Science students to work with and be mentored by academics in diverse areas of science. In this 20 credit point unit, students will complete a small research project aligned with the research activity of the academic and be integrated into the research environment of the School. Students will demonstrate time management skills, project design, data collection, analysis and communication. Students will be required to reflect on their capacity and areas of passion for transitioning into either further education or the workplace. Please note this unit is not timetabled so completion will be subject to approved timelines negotiated with the appropriate academic staff and unit co-ordinator. Students may be required to travel to a different campus or location to undertake this unit.

300596.4 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.

301026.2 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.

401414.1 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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Please note, unit 401291.1 Advanced Sport and Exercise Science replaced by 401414.1 Advanced Sport and Exercise Science from 2020. 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.

301013.2 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.

300594.5 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

.....

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.

301021.2 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.

301009.2 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.

301196.2 Advanced Topics in Artificial Intelligence

Credit Points 10 **Level** 7

Assumed Knowledge

This unit requires basic skills in programming with either JAVA or C++ as the programming language.

Incompatible Units

300245 Intelligent Agents; 300385 Automated Negotiation and e-Trading; 300769 Intelligent Agents for eMarkets

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit introduces the most fundamental techniques of artificial intelligence (AI), including knowledge representation, searching, machine learning and intelligent agents. Students will learn the basic theories and algorithms that are essential in the design and development of intelligent systems. The unit will focus on two typical AI applications: game playing and e-trading. Students will have the chance of using existing multiagent system platforms to design and develop intelligent software for game playing and automated trading in e-markets.

301236.2 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.

300694.4 Advanced Topics in ICT

Credit Points 10 **Level** 7

Prerequisite

301005.1 Professional Practice and Communication

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.

300252.4 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

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This unit focuses on the advanced features of networked systems and the emerging network technologies and services. The unit provides students with an in-depth understanding of relevant protocols, the emerging standards, and standards organisations. The emphasis of the unit is on development of the student skills to enable them to do proficient research and development works and studies in the computer networking discipline.

301017.2 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.

301016.2 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.

300595.4 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.

300790.2 Agriculture, Food and Health

Credit Points 10 **Level** 2

Assumed Knowledge

Basic understanding of resource sustainability issues

Incompatible Units

300609 - Ecology of Production

.....

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.

301276.1 Air Pollution & Control

Credit Points 10 **Level** 3

Assumed Knowledge

Basic chemistry, biology and microbiology

Prerequisite

300831.3 Quantitative Thinking OR **300672.2** Mathematics 1A AND **300811.1** Scientific Literacy AND **300808.2** Introductory Chemistry AND **300833.1** Microbiology 1 AND **300816.1** Cell Biology

Incompatible Units

300852 Air Quality and Climate Change

Unit Enrolment Restrictions

Students must have achieved 80 credit points to enrol in this unit which is intended for 3rd year students.

Special Requirements - Essential Equipment

Outdoor attire / Lab coats, enclosed footwear for indoor labs

.....

Air Pollution and Control introduces students with an interest in working in the fields of environmental science, environmental consulting, environmental management and environmental health to the basic principles and practices of air quality assessment and management. Air pollution does not recognise socio-political boundaries, and air pollutants transfer intercontinentally through pathways both close to the Earth's surface and upper atmosphere. Air Quality management represents a major challenge facing humanity because it poses a threat to human health, agriculture and environmental sustainability, as it can penetrate even remote and once pristine environments. As such, air pollution management and control is of International, National, State and Local government and community concern. This unit critically analyses the natural and anthropogenic sources of air pollution, their nature,

health and environmental impacts, monitoring, regulation and control.

200811.6 Alternative Dispute Resolution

Credit Points 10 **Level** 2

Corequisite

200977.3 Fundamentals of Australian Law OR **200006.2** Introduction to Law

Incompatible Units

200293 - Alternative Dispute Resolution, 200812 Conflict Resolution

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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.

200023.4 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.

301098.2 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.

300832.2 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

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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.

300866.2 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.

.....

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.

301107.2 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).

300897.3 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 have a laboratory coat.

.....

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.

300894.3 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 3755 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.

.....

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.

300878.2 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.

.....

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.

301255.1 Animal Health, Ethics and Welfare

Credit Points 10 **Level** 3

Prerequisite

300802.2 Biodiversity AND **300801.1** Animal Science

Incompatible Units

300424 Animal Health and Welfare 300834 Animal Health and Welfare

Special Requirements - Essential Equipment

Outdoor attire / Lab coats, enclosed footwear for indoor labs

.....

This unit will ensure students will be able to evaluate the major issues related to animal health, welfare and ethical frameworks that govern working with animals. In particular, students will gain knowledge of the diseases impacting animals and methods for disease diagnosis and control. In addition, students will apply this knowledge to the relationships between animal management and the health and welfare expectations for domesticated and wild animals. The legal obligations of the impact of legislative regulation for those owning, working or observing animals with respect to approval processes, maintaining and monitoring animal health and welfare is also addressed. Students may need to travel to another campus to complete this unit.

300853.2 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.

300835.2 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

.....

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.

300801.2 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.

301110.2 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.

401203.2 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.

301406.1 Applied Bioinformatics

Credit Points 10 **Level** 3

Assumed Knowledge

A basic understanding of microbial, animal and plant cell core concepts is desirable.

Prerequisite

300845.2 Genetics

Special Requirements - Essential Equipment

Access to a computer with an internet connection.

The ability to perform computational experiments and analyse data is a key component for a successful career in the biological sciences. This unit focuses on how biology has been enhanced through advances in technology, genomics, transcriptomics, proteomics and metabolomics in the development of cell phenotype. Using model systems, this unit shows how research biologists use computational cell biology to form hypotheses, mine data, analyse experiments, and synthesise information. Students will apply bioinformatics and engage with next-generation DNA sequencing data. Students will apply web-based bioinformatics toolkits to construct and compare model genomes, transcriptome, proteome and metabolome information to profile cell genotype and phenotype. Students will undertake a project that interprets and communicates research findings in the context of real world applications, legal and ethical frameworks.

301312.1 Applied Machine Learning

Credit Points 10 **Level** 7

Assumed Knowledge

Some probability and statistics knowledge would be advantageous.

This unit introduces the foundation and concepts underpinning Machine Learning (ML) at a more abstract level, and provides more focus on its practical applications in areas such as: the classification and extraction of text data from various documents and web pages, image processing, Google's PageRank algorithm and relational data mining (RDM). These learning objectives are achieved through various ML software and a series of practicals and projects. The unit covers the concepts and notions of supervised, unsupervised and reinforcement learning, perceptron, neural networks, support vector machines (SVM), knowledge representation (KR) based RDM, and a comprehensive introduction to the Scikit-learn ML Python libraries.

300986.2 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

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.

102767.1 Applied Professional Music Contexts

Credit Points 10 **Level** 3

Equivalent Units

102430 - Professional Music Project, 101472 - Music Project

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This unit provides students with the opportunity for industry experience in applied professional contexts. Activities such as performance, composition, teaching, sound engineering, music administration and other industry-related work will occur in integrated learning contexts and/or placement opportunities. This unit also provides training in music business and personal branding, and allows students to work as individuals or in groups, to bring together and build on skills and knowledge developed through their degree.

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.

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.

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

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.

301197.2 Architecture Studio - Fundamentals of Analogue Design

Credit Points 20 **Level** 2

Unit Enrolment Restrictions

Must be enrolled in 3753 Bachelor of Architectural Design or 3768 Postgraduate Bridging Program (Architecture). Students not enrolled in 3753 or 3768 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.

301198.3 Architecture Studio - Fundamentals of Digital Design

Credit Points 20 **Level** 2

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 introduces 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. Students work on project-based assessments that involve an iterative process of reflection and refinement, the use of digital techniques of 3D design including NURBS modelling and rapid prototyping to explore architectural concepts. This work is contextualised as students learn about 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

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

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.

301199.2 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

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

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.

301200.2 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

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

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 use various models of three-dimensional representation 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

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

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 situates learning in the context of the major urban public projects that sit at the intersection of architecture, infrastructure, and urban design and which highlight the pressure of population growth, climate change, or other significant demographic, economic, political, or ecological transformations. Work integrated learning is a key feature of the Rethinking Infrastructure studio which involve relevant members of the professional community to help lead studio investigations and/or embed students in professional practices. Projects include architectural responses to complex urban and infrastructural projects at

a large scale such as transit oriented development, high density housing, landscape urbanism. Students develop professional practice skills on these real world projects and incorporate sustainable strategies of design as well as learning skills in advocacy, entrepreneurship, and professional readiness.

301316.1 Architecture Studio: Urban Architecture

Credit Points 20 **Level** 4

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This unit will introduce students to urban architecture with complex brief requirements, site conditions and technological considerations. Emphasis is on design resolution considering historical, geographical and social aspects. Experimentation at various theoretical levels is expected and students are encouraged to deliver ambitious and imaginative architectural responses.

301174.2 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

300087 Artificial Intelligence; 300137 Knowledge Based Systems; 300368 Intelligent Systems

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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

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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, polities and

communities of Asia and how they have related to each other and the world beyond.

300916.4 Astroinformatics

Credit Points 10 **Level** 3

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

From 2020 students should note that core units are now taught in semesters rather than half yearly sessions. 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.

200535.3 Auditing and Assurance Services

Credit Points 10 **Level** 3

Assumed Knowledge

A basic knowledge of computing.

Prerequisite

[200109.4](#) Corporate Accounting Systems

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.

101923.1 Australian Design

Credit Points 10 **Level** 2

This unit continues the focus on academic and visual literacies for visual communication designers initiated in level one units. Students will investigate the Australian visual communication design profession, largely through the documentation of selected output and established methods across industry sectors producing graphic, photographic, illustrative, typographic, broadcast,

interactive and online design. Lectures and selected case studies will outline professional scenarios and support the student in learning about the design industry's organisation and methods. Assessment tasks are designed to develop research and writing skills through the evaluation of professional resources and publications.

102738.1 Australian Politics and Active Citizenship

Credit Points 10 **Level** 1

Equivalent Units

100958 - Australia and the World, 700130 - Australia and the World (WSTC), 700294 - Australian Politics and Active Citizenship (WSTC)

We live in an increasingly interconnected world where international trade, foreign policy, digital communication and flows of migrants and cultures across borders appear to undermine the importance of national communities. Despite this, everyday life is still profoundly influenced by the decisions which national governments make and the powers they exercise. This unit introduces Australian political institutions, processes and contemporary issues. It traces democracy beyond Parliamentary representation to encompass active citizenship, through which public opinion is formed and expressed. Students will identify key political issues in contemporary Australia, understand how political institutions respond, and develop the skills to contribute to public debates.

900077.2 Australian Studies (WSTC)

Credit Points 10 **Level** Z

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.

300735.3 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.

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.

300802.3 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, BI102A - 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.

500050.1 Biodiversity (UG Cert)

Credit Points 10 **Level** 1

Equivalent Units

700095 Biodiversity, 300539 Biodiversity, 700032 Biodiversity (UWSC), 300802 Biodiversity

Unit Enrolment Restrictions

Students must be enrolled in the following course: 7175, Undergraduate Certificate of Environmental Sustainability

Special Requirements - Essential Equipment

Students need a computer with reliable internet connection, Microsoft Office, webcam and microphone

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.

700095.3 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 2 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.

200957.3 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, 2824 Master of Laws or 2826 Juris Doctor.

This unit explores a range of ethical and legal issues in public health, biomedical research, biotechnology and medical practice.

300909.2 Biological Adaptation to Climate Change

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 40 credit points at Level 2.

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.

301292.1 Biomechanics in Product Innovation

Credit Points 10 **Level** 3

Assumed Knowledge

The ability to generate design concepts that reference human scale and basic knowledge in prototype model fabrication is desirable

Equivalent Units

301080 Design Studio 4: Innovation through Systems Thinking

Designing optimal interactive environments for people requires an overview of human and contextual factors that impact on tasks and activities in the use of everyday products and services as well as specialised equipment. Students will complete a design challenge to improve product usability with healthy and rewarding outcomes for users through an evidence-based approach. Design challenges are completed with the input of specialist health and science resources with students applying knowledge in the areas of human anatomy, physics and the biomechanics of motion providing insights for new product innovation.

301121.2 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.

200263.6 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.

700033.5 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 2 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.

301266.1 Biotic interactions

Credit Points 10 **Level** 3

Assumed Knowledge

Students will be expected to apply previous knowledge in mathematics, chemistry, and biology, and demonstrate critical thinking in written and oral formats.

Prerequisite

300839.1 Ecology AND **300802.2** Biodiversity

Equivalent Units

300855 Conservation Biology

.....

This unit will introduce the diversity of biotic interactions observed in nature, with an emphasis on their significant roles in maintaining ecosystem function and regulating biological diversity. Major themes will include the role of microbes in plant and animal health and nutrient acquisition via the soil and gastrointestinal microbiomes, the chemical ecology of interactions between plants, and herbivores and pollinators, and interactions between predators and prey. The consequences of biotic interactions for participants can vary from mutual benefit to benefit for one participant and harm for the other, however these outcomes can often change through time and space. Students will be guided to an understanding of how ecological circumstances determine the consequences of biotic interactions.

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.

101684.5 Brain and Behaviour

Credit Points 10 **Level** 2

Equivalent Units

100931 - Neuroscience

.....

This unit provides an introduction to the biological and neuroscientific bases of human behaviour. Topics covered include the chemistry of life, the molecular basis of life, the cell and some of the major organ systems of the human body with particular reference to the nervous, endocrine and sensory systems. The unit has a significant laboratory component which reinforces lecture and text material. Students will be introduced to the biological and neuroscientific concepts necessary for a thorough understanding of areas of psychology such as abnormal psychology, cognitive processes, developmental psychology, human learning, and physiological psychology.

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.

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.

700071.3 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.

700318.1 Building Calculations (WSTC Prep)

Credit Points 10 **Level** Z

Equivalent Units

700264 - Scientific Methods in Construction Management

Unit Enrolment Restrictions

Students must be enrolled at The College in 6031 - Diploma in Building Design Management / Bachelor of Building Design Management, 7136 - Diploma in Building Design Extended, 6045 - Diploma in Construction Technology/Bachelor of Construction Technology or 7165 - Diploma in Construction Technology Extended.

.....

This unit is designed to assist students to become competent in the field of introductory senior mathematics. It introduces and reinforces mathematical skills in the areas of scale, application of scale, Pythagoras theory, trigonometry, sine and cosine, application of sine and cosine, building volumes, application of building volumes, gradients, application of gradients and thermal flow. Emphasis is placed on developing key competencies in building calculations.

301234.1 Building Cost Studies

Credit Points 10 **Level** 3

Assumed Knowledge

Building construction including residential, light industrial and small commercial, basic building measurement and estimating.

.....

This unit is designed to provide students with experience of advanced quantity surveying techniques. Students will develop an ability to perform various cost studies, consider sustainability issues and make whole life cost choices. The aim of this unit is to give students a hands-on experience of the tendering process for construction professionals. Students will undertake a team research project to determine the optimum parameters for a building infrastructure estimation.

301087.2 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.

301099.2 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.

301101.2 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.

301100.2 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.

301102.2 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.

301207.2 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.

301208.2 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.

300885.2 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.

301219.1 Building Science

Credit Points 10 **Level** 1

.....

This unit provides students with an introductory overview of the way in which scientific principles impact on the structure, fabric and performance of the built environment. Areas covered will include the concepts of force, energy and work in building structures; properties of common building materials; and significant aspects of heat, light and sound in buildings. All the theoretical content will be contextualised within examples drawn from the construction industry. Students will be able to recognise the critical data

required for practical decision-making in the area of building technology.

700308.1 Building Science (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

301219 - Building Science

Unit Enrolment Restrictions

Students must be enrolled at The College. Students in Extended Diploma courses must pass 40 CPs of preparatory units in order to enrol in this unit. Students in Integrated Diploma courses must pass or be enrolled in the preparatory units in order to enrol in this unit.

.....

This unit provides students with an introductory overview of the way in which scientific principles impact on the structure, fabric and performance of the built environment. Areas covered will include the concepts of force, energy and work in building structures; properties of common building materials; and significant aspects of heat, light and sound in buildings. All the theoretical content will be contextualised within examples drawn from the construction industry. Students will be able to recognise the critical data required for practical decision-making in the area of building technology.

301221.1 Building Superstructure

Credit Points 10 **Level** 3

Assumed Knowledge

Basic knowledge of building construction both residential and non-residential.

Equivalent Units

200502 Construction Technology 3 (Concrete Construction)
200470 Construction Technology 4 (Steel Construction)

.....

The aim of this unit is to provide students with an understanding of the factors that contribute to the design and construction of a building superstructure. Students will be introduced to relevant Australian Standards for common construction materials and practices. The unit also aims to develop the ability of construction students to communicate professionally with other building professionals including structural engineers. Emphasis will be given to the strength, behaviour and failure of structural members, connections and frames.

301085.2 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.

200896.2 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.

900023.3 Business Studies (WSTC)

Credit Points 10 **Level** Z

Equivalent Units

700206 - Business Studies (WSTC Prep)

Unit Enrolment Restrictions

Students must be enrolled in a Western Sydney University, The College Foundation Studies course.

.....

This unit aims to develop an understanding of some of the key concepts, relationships and principles underpinning the operations of business in modern societies. It is also designed to develop a degree of competence in a suite of skills to prepare students for undergraduate study in business and to enable them to act responsibly and effectively in the local and global business environment.

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.

102835.1 Catastrophe: The Environmental History of the Ancient World

Credit Points 10 **Level** 3

Equivalent Units

102492 - Catastrophe: The Environmental History of the Ancient and Modern World

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 1600 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.

300816.2 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.

700125.3 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 2 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.

301267.1 Cell Form and Function

Credit Points 10 **Level** 2

Prerequisite

300816.1 Cell Biology

Special Requirements - Essential Equipment

Appropriate laboratory lab coat and safety goggles or glasses with a rubber or silicon seal around the eyes, closed shoes, laboratory note book.

.....

This unit will develop a comprehensive understanding of eukaryotic cellular components, with an emphasis on animal cells. The unit will focus on distinct functions of organelles/cellular structures, the relevant mechanisms involved, and the broader role of such functions in a whole cell context. The unit will encompass a detailed study of cellular components including: the nucleus, ribosomes, the endoplasmic reticulum, the Golgi apparatus, lysosomes, the plasma and organellar membranes, mitochondria, peroxisomes and the cytoskeleton. This unit will also investigate how organellar function is relevant to an appropriately functioning cell, and how cell dysfunction impacts the cell and leads to disease. The unit covers contemporary techniques used to study cells including: cell culture, advanced cell imaging, a range of investigative and analysis techniques, and additional experimental approaches enabling thorough understanding of the incredibly fascinating yet complex nature of cells.

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 is a platform to introduce Chemistry to students. It introduces students to the basic concepts required to satisfy the needs of most first year university science units in both skill and content areas. It is intended that students will gain a greater understanding of the theoretical concepts covered in the unit by completing the practical component of the unit. Students will also be introduced to professional pathways in science.

900024.3 Chemistry (WSTC)

Credit Points 10 **Level** Z

Equivalent Units

700043 - Chemistry (WSTC Prep)

Unit Enrolment Restrictions

Students must be enrolled in a Foundation Studies course at 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. Students will also be introduced to professional pathways in science.

102205.2 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.

.....

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.

100056.2 Chinese 101

Credit Points 10 **Level** 1

.....

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
.....

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 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.
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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

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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

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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

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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

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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

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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

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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.

700243.2 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.

301220.1 Civil and Substructure

Credit Points 10 **Level** 2

Prerequisite

300706.3 Building 1 OR **301226.1** Residential Building AND **300707.2** Building 2 OR **301227.1** Non-Residential Building

Equivalent Units

300720 Construction Technology 1 (Civil) 300721 Construction Technology 2 (Sub-structure)

Special Requirements - Essential Equipment

This unit involves extensive practical exercises. In order to undertake the practicals, each student must have the appropriate PPE (Personal Protection Equipment): Laboratory coat Broad-brimmed hat Safety shoes

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This unit provides an overview of civil construction and associated sub-structure works comprising footings, pilings and slabs and the high costs associated with these elements. Through site surveys, site assessments and design proposals students will apply their developing understanding of bulk excavation, site drainage, service mains (electricity, gas, water, sewerage, data), roads and retaining walls to real world examples. Students will also examine public infrastructure such as ports, tunnels, bridges and highways to deepen their knowledge base. Additionally, in order to further understand the high costs involved in sub structure works, students will learn to identify problems faced on sites including rock, chemically-aggressive soils and water-logged sites.

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.

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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.

301262.1 Classical Physics

Credit Points 10 **Level** 3

Assumed Knowledge

Introductory mechanics: Newton's laws, work, conservation of energy and momentum. Introductory Electrostatics: Electric forces and Coulomb's law. Introduction to Magnetic fields: production by magnets & currents, magnetic forces on currents & charges; Induced EMF and Faraday's law. Basic thermodynamic principles of heat, energy and

temperature. Mathematics: integral and differential calculus, vectors.

Prerequisite

300829.1 Physics 2

Incompatible Units

300930 Classical Physics and Applied Technologies

Unit Enrolment Restrictions

Successful completion of 40 credit points at Level 2.

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This unit covers the key components of classical physics to the advanced level expected of a physics major. Newtonian mechanics will focus on realistic problems, in three dimensions and in the presence of friction and drag. Electromagnetism introduces Maxwell's equations, and applies them in the presence of matter. Thermodynamics is presented rigorously, focusing on the most general forms of the first and second laws. We will also introduce the basic elements of statistical physics. Fluids and waves will introduce the basic equations of fluids, and in particular the full (PDE) wave equation and its solution.

300930.2 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

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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.

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.

300837.2 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.

300951.3 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.

800225.1 Clinical Research in Health Science

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a post-graduate course, Masters by Research, PhD or 8083 Bachelor of Research Studies

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This unit will teach students practical knowledge and skills for conducting clinical research within the field of Health Science. Students will learn ethical, methodological and practical considerations in applied quantitative and mixed-method research within the framework of a human clinical trial. Upon completion of the unit students will have an understanding of basic human clinical trial design, novel clinical trial designs, specialisation within various study fields. They will also have consideration of stakeholders and translational importance, trial governance, regulations and the Therapeutic Goods Administration (TGA), intellectual property, commercialisation, recruitment, and advertising and marketing. Finally, they will understand the importance of translational impact via publications and the media, and be able to synthesise trial data via knowing how to conduct systematic reviews and meta-analyses.

301042.2 Cloud Computing

Credit Points 10 **Level** 7

Assumed Knowledge

Basic knowledge of networking and computer systems.

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 moving towards a future in which we won't rely 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 offers "Academy Cloud Foundations" (ACF) curriculum as part of Amazon Web Services (AWS) Academy. Students will develop knowledge and skills in the areas of virtualization technologies, cloud architecture, AWS core services and their pricing, security, architecture, and support.

301204.3 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.

301282.1 Co-Designing Change with Local Communities

Credit Points 10 **Level** 1

Equivalent Units

300776 Applied Ergonomics; 301073 Design Studio 1: Patterns and Products

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, laser cutter. 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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Collaboration is the foundation for some of the most successful world achievements ranging from medical breakthroughs, to space travel, to smart phones, to drones. Effective collaboration in diverse teams promotes a dynamic environment for creativity and innovation with good prospects for developing novel solutions. In a real world collaborative, co-design partnership with an external university partner, students will create a design proposal and prototype, based on a project brief. Through this collaborative process, students will develop skills in research, conceptualisation, communication and reflective practice whilst prototyping and testing their ideas before presenting them to their client.

101677.5 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

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.

301378.1 Combinatorics

Credit Points 10 **Level** 3

Assumed Knowledge

Logic, proof techniques, counting techniques, graph theory, matrices.

Prerequisite

200025.3 Discrete Mathematics AND **300673.3** Mathematics 1B

This unit builds upon the knowledge acquired in the prerequisite unit Discrete Mathematics and helps students to develop understanding and mathematical maturity. The unit covers more sophisticated counting techniques, additional concepts in graph theory, and it introduces coding theory. Many applications of these concepts are included, and some combinatorial algorithms are studied. The applications and techniques presented in the unit are used to model systems such as transport networks and social networks, and they have relevance for communication, computing, probability, statistics, and science, and for many everyday problems such as scheduling.

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.

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.

900126.1 Communication Skills for Health Science 1 (WSTC)

Credit Points 10 **Level** Z

Unit Enrolment Restrictions

Students must be enrolled at The College in 9019 - University Foundation Studies Standard – 2 Terms – Health Science/Nursing Stream

This unit is designed to introduce students to academic culture as a culture of critical debate and equip students with the academic literacy skills necessary to perform successfully in this culture. In particular, the unit aims to help students access the conventions of academic English by focussing on attitudes to knowledge, and the ways in which ideas are structured and presented in academic texts and speech. The unit assists students to comprehend academic texts, identify key ideas and concepts, and identify and use the rhetorical moves used in academic texts. 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 reference information.

101595.3 Community and Social Action

Credit Points 10 **Level** 2

Equivalent Units

101300 - Education for Social Action

Special Requirements - Essential Equipment

Access to online materials, working in small group collaborative spaces

Dismantling oppressive and complex forms of disadvantage and inequality are social justice and human rights issues demanding collective action. Activism is not solely about disruption and disobedience. This unit focuses on local, national and global social movements, the use of digital technologies and differing forms of activism using theories of social change. We identify and reflect on diverse perspectives, challenging normative constructs between individual and structural explanations of inequality and explore tactics and strategies adopted by activists, from the early 20th century through to contemporary campaigns. Students are enabled to take part in meaningful ways as active change agents through design, planning and

participation in a social action campaign, thereby building knowledge and skills in community engagement, relationship building and the strategies and methods involved in bringing about positive social change.

300838.2 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

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.

301232.1 Complex Building Project

Credit Points 10 **Level** 4

Corequisite

300724.2 Industry Based Learning

Equivalent Units

BG408A Building in Practice 3 200484 Construction in Practice 3

Unit Enrolment Restrictions

Successful completion of 200 credit points.

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.

301261.1 Complex Case Studies in Science

Credit Points 10 **Level** 3

Equivalent Units

300661 Integrated Science 300664 Science in Society 700096 Integrated Science (UWSC)

Incompatible Units

300931 Integrated Science

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. Students may be required to travel to different campuses or locations to undertake this unit.

300911.2 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), 3562 Bachelor of Science (Advanced Science) (Forensic Science), MT3022 Forensic Science, MT3023 Forensic Chemistry or MT3024 Forensic Biology.

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.

300987.2 Composite Structures

Credit Points 10 **Level** 4

Prerequisite

300730.2 Steel Structures AND **300736.2** Concrete Structures (UG)

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.

301031.3 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.

300093.8 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.

900051.3 Computer Literacy (WSTC)

Credit Points 5 **Level** Z

Unit Enrolment Restrictions

Must be enrolled at The College in Foundation course.

This unit is intended to familiarise the University Foundation Studies students with the basic functions of computers and the skills necessary to use the common applications such as Microsoft Word, Microsoft PowerPoint and the Internet. These skills are introduced to students through structured activities that will assist students to complete the research and document preparation requirements of their other units.

300946.2 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.

500049.1 Computer Networking (UG Cert)

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.

Equivalent Units

300565 Computer Networking, 300094 Computer Networking Fundamentals, 300086 Applied Data Communications and Networking, 700012 Computer Networking

Unit Enrolment Restrictions

Only students enrolled in course 7174 – Undergraduate Certificate in ICT can enrol

Special Requirements - Essential Equipment

Students need a computer with reliable internet connection, webcam and microphone.

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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).

300095.6 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)

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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).

300569.3 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.

900028.3 Computer Studies (WSTC)

Credit Points 10 **Level** Z

Assumed Knowledge

This unit is only available to UWSCollege students enrolled in Foundation Studies.

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Computer Studies introduces to the students the new age of information, where computers and communication play an integral part in our lives. The course has been developed to enhance a student's practical ability as well as build a solid theoretical foundation for further study.

301126.2 Concepts in Human Anatomy

Credit Points 10 **Level** 1

Assumed Knowledge

HSC Biology

Equivalent Units

300825 - Introduction to Anatomy 700266- Concepts in Human Anatomy (WSTC)

Unit Enrolment Restrictions

Because of space and resource limitations, this unit will be restricted to students 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) 3755 Bachelor of Medical Science 3758 Bachelor of Advanced Medical Science and MT3022 Forensic Science

Special Requirements - Essential Equipment

All students required to have lab coat at all dry- lab sessions. All students attending the wet labs are required to complete an online anatomy induction before being granted entry, and will need to provide their own lab coat.

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This unit provides a basic understanding of human embryological development, anatomical terminology, and a range of foundation concepts in human anatomy. Students must attend a 'wet' laboratory session where the learning of anatomy will be enhanced through the study of human cadaveric material. Wet laboratory sessions are not available on all campuses, and therefore students will need to travel to other campuses in order to attend.

301254.1 Concepts in Human Physiology

Credit Points 10 **Level** 1

Incompatible Units

300818 Introduction to Physiology 010913 Human Biology 400868 Human Anatomy & Physiology 1 300361 Introduction to Human Biology

Special Requirements - Essential Equipment

Students will be required for 4 x 2 hr practicals at all Campbelltown, Parramatta & Hawksbury campuses (Physiology labs). All students are required to have a lab coat, safety glasses and to complete an online WHS induction quiz.

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This unit introduces the core concepts and terminology necessary to provide a basic understanding of the physiological responses of the human body using relevant examples. These include the processes of homeostasis, cell-cell interactions and the physical and chemical transport processes that are required to carry out integrated

functions. Students will explore these key physiological concepts through practical hands-on experiments and in interactive group work in prac and tutorial classes, respectively. The unit provides the foundation to study the physiology of human organ systems.

300736.3 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)

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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.

301213.2 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

Must be enrolled in the following courses: 2607 Bachelor of Construction Management, 3762 Bachelor of Construction Management (Honours), 3727 Bachelor of Building Design Management or 3692 Bachelor of Construction Technology.

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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.

700290.1 Construction Communication (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

300674 Engineering, Design & Construction Practice, 300975 Professional Competencies, 700038 Engineering,

Design & Construction Practice (WSTC), 700107 Engineering, Design & Construction Practice (Assoc Deg), 301213 Construction Communication and 700154 Professional Competencies (WSTC)

Unit Enrolment Restrictions

Students must be enrolled at The College. Students enrolled in Extended Diploma courses: 7136 Dip Building Design Management Extended and 7137 Dip Construction Management Extended must have passed 40 credit points of preparatory units in order to enrol in this unit.

.....

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.

200504.4 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.

.....

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.

200503.3 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.

300728.4 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

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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.

301229.1 Construction Project Management

Credit Points 10 **Level** 3

Assumed Knowledge

An understanding of basic knowledge in building and construction

Equivalent Units

MG313A Project Management 300727 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 expected to undertake in their professional careers. It covers the major knowledge areas of project management theory as they relate to construction.

301243.1 Construction Research Methods

Credit Points 20 **Level** 5

Assumed Knowledge

Detailed knowledge of construction project delivery derived from the completion of the first 3 years of the BCM (Hons)

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This unit introduces students to various research methods that are applicable for research in the Built Environment and also guides students on how to carry out a literature review leading to identifying a clear research question. Students will be required to submit a research proposal for an identified research problem within a chosen research topic, under the supervision of an assigned research academic.

301223.1 Construction Research Project

Credit Points 20 **Level** 5

Prerequisite

301243.1 Construction Research Methods

Unit Enrolment Restrictions

Students must complete 200 credit points in currently enrolled course before enrolling in this unit.

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In this unit students will undertake practical research into identified technical, managerial or economic problems in the construction industry. Groups of up to four students will collectively undertake these industry based research projects and produce an individual final report plus another tangible outcome as agreed at the project proposal stage. A wide range of indicative practical projects will be available to assist and direct the research effort.

301230.1 Construction Scheduling

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 **301227.1** Non-Residential Building OR **301208.1** Building Measurement

Equivalent Units

PL302A Construction Planning 300728 Construction Planning

.....

This unit is intended to provide students with the skills and 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.

200471.5 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.

300725.4 Construction Technology 6 (Services)

Credit Points 10 **Level** 4

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.

301244.1 Construction Thesis

Credit Points 20 **Level** 5

Prerequisite

301243.1 Construction Research Methods

Incompatible Units

301160 - Construction Management Honours Thesis

Unit Enrolment Restrictions

Students must complete 200 credit points before enrolling in this unit

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In this unit, students continue their research based on the literature review and research design submitted as part of the Construction Research Methods, under the close guidance of the same research supervisor. The research will be extended using appropriate research methods to perform data collection, data analysis and research conclusions. The students will submit an original thesis report on a research endeavour (continued from the research report in unit Construction 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.

301061.2 Construction Work Safety

Credit Points 10 **Level** 1

Equivalent Units

700256 - Construction Work Safety (WSTC)

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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.

700256.2 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 2 units.

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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

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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.

200922.1 Consumers, Firms and Markets

Credit Points 10 **Level** 1

.....

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, 700289 Contemporary Childhoods (WSTC)

.....

In this unit students will engage in an exploration of what it means to be a child in a postmodern world and how

different theoretical approaches influence ways of understanding children's lives. Alongside questions of gender, sexuality, ethnicity, 'race', language, class, ability and religion are constituted through a child's identity, students will explore the notion of a child's subjectivity. A child's subjectivity is the conscious and unconscious thoughts and emotions of the child, their sense of self, their body and their way of understanding their relationship to the world. Building on this knowledge, students will also explore the four key child-environment identities of the physical child, the social child, the learning child and the natural child and by analysing a variety of scholarly and non-scholarly texts around childhood, children's bodies and behaviour will reflect on a child's individuality and emerging identity.

200108.3 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

.....

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.

.....

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.

102201.2 Contemporary Theories of Religion and Society

Credit Points 10 **Level** 7

Assumed Knowledge

Students must have completed an undergraduate degree or equivalent.

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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.

102275.1 Contextual Design Studies

Credit Points 10 **Level** 3

Prerequisite

[102266.1](#) Researching the Visual

Equivalent Units

101080 - Design Issues

Contextual design studies is the study of what happens around design practice – before, during and after – to explain its meaning and effect. Successful communication design has always depended on the connection between form, content, audience and context, and the designer's abilities to analyse, understand and clarify the contexts of communication have become more important to creative practice. In this unit students will learn to apply the theoretical frameworks of semiotic, thematic and rhetorical analysis used by the interdisciplinary field of Design Studies to interpret design's potential as cultural expression and communication. Students will analyse visual signs and conventions as both targeted and tacit responses to a range of contexts revealing design's interests in marketplaces, society and identity. Students will analyse various graphic examples, and design literature, as they investigate the significance and agency of design interactions, media artefacts and systems.

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 through flipped mode of delivery supported by face to face tutorials. 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.

301224.1 Contract Administration

Credit Points 10 Level 2

Incompatible Units

200487 Quantity Surveying 2

In this unit, students will examine and investigate the contractual aspects with respect to time, cost, quality and scope in building contracts. The students will develop technical skills for the administration of construction contracts and be able to prepare payment certificates and cash flow statements.

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

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.

300009.4 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

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.

200109.7 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

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.

200488.6 Corporate Financial Management

Credit Points 10 **Level** 2

Assumed Knowledge

Introductory economics or microeconomics, basic mathematics and statistics.

Prerequisite

200052.7 Introduction to Economic Methods OR **200032.7** Statistics for Business

Students must have successfully completed unit 200032 (Statistics for Business) or 200052 (Introduction to Economic Methods) before enrolling in the unit. This enrolment restriction does not apply to students in course 2785 Bachelor of Accounting/Bachelor of Laws.

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.

200924.3 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

.....

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.

.....

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.

.....

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

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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.

102211.3 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.

102038.2 Crime Prevention and Community

Credit Points 10 **Level** 3

Equivalent Units

101564 - Victimisation and Crime Prevention

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In Spring 2020 this unit replaced by 102708 - Crime Prevention and Drugs. 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.

300873.3 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), 3562 Bachelor of Science (Advanced Science) (Forensic Science) or MT3022 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.

200010.3 Criminal Law

Credit Points 10 **Level** 2

Corequisite

200006.2 Introduction to Law OR **200977.1** Fundamentals of Australian 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, including the impact of the criminal justice system on Indigenous Australians. Students will engage in collaborative class learning with a particular focus on legal problem solving and participate in a mock bail application.

300871.2 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.

900029.4 Cultural Perspectives (WSTC)

Credit Points 10 **Level** Z

Unit Enrolment Restrictions

Students must be enrolled in a Western Sydney University, The College Foundation Studies course.

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Cultural Perspectives is designed to help students to understand why people from diverse cultures and historical periods think differently, behave differently and, generally, have vastly different worldviews. This course is designed to help students to understand a little more about themselves, their family and friends and the reasons why people do things in particular ways, and believe the things that they

do. It has a strong theoretical base but is also designed to encourage reflection.

101562.4 Culture and Crime

Credit Points 10 **Level** 3

Assumed Knowledge

A basic understanding of foundational criminological theory.

Equivalent Units

102710 - Crime, Media, Culture

Unit Enrolment Restrictions

Successful completion of 80 credit points

.....

In 2020 this unit replaced by 102710 - Crime, Media, Culture. 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.

300997.2 Data Communications

Credit Points 10 **Level** 3

Prerequisite

300057.3 Signals and Systems

Incompatible Units

300010 - Data Networks

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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.

301044.2 Data Science

Credit Points 10 **Level** 7

Assumed Knowledge

Basic Statistics, Computer Programming

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The explosion of data in the internet age opens up new possibilities for agencies and business to better serve and market to its customers. To take full advantage of these opportunities requires the ability to consolidate, manage and extract information from very large diverse data sets. In science, data sets are growing rapidly, with projects

routinely generating terabytes of data. In this unit we examine the software tools and analytic methods that underpin a successful Data Science Project and gain experience in big data analytics.

102269.2 Data Visualisation

Credit Points 10 **Level** 3

Assumed Knowledge

Students should have at least moderate skills in producing documents or illustrations using Photoshop and Illustrator.

Prerequisite

101922.1 Web and Time-based Design OR **102264.1** Graphic Design: Process and Practice

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We live in an era of data. The designer's role is increasingly one of structuring and transforming data into accessible and meaningful information. In this unit students will be introduced to basic techniques for the visual representation of data. This unit covers both how to design successful charts, maps, and diagrams, as well as how to use these graphics to compose cohesive storytelling pieces. Students will also discuss both practical and theoretical issues when visualising data, and how Graphic Design and Interactive Design principles apply to the visualisation of information. Students will learn how to design basic infographics and mock ups for interactive visualisations, and they will develop skills to start producing compelling and elegant infographics and data visualisation.

102421.2 Data, Mediation, Power

Credit Points 10 **Level** 1

Equivalent Units

101925 - Mediated Mobilities, 101041 - Communication Research, 700181 - Mediated Mobilities (WSTC), 700269 - Data, Mediation and Power (WSTC)

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Data, Mediation, Power investigates the operation of power in contemporary digital media cultures and economy. The unit examines the primary role played by data in determining how we live in the world. This includes how we interact with the world, its people and digital artefacts, in terms of communication and meaning. The unit focuses on technologies of control and governance related to algorithmic architectures and data economies. Who benefits from data and mediation and what are the limits and possibilities of data? Ultimately, this kind of critical analysis invites us to think about what constitutes a just, democratic society and what constitutes an ethical media life.

300941.2 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.

500048.1 Database Design and Development (UG Cert)

Credit Points 10 **Level** 2

Assumed Knowledge

Basic programming skills, including variable declaration, variable assignment, selection statement and loop structure.

Equivalent Units

300104 Database Design and Development, 700011 Database Design and Development

Unit Enrolment Restrictions

Students need to be enrolled in 7174 – Undergraduate certificate of ICT

Special Requirements - Essential Equipment

Students need a computer with reliable internet connection, webcam and microphone.

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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.

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.

301015.2 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.

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.

301086.2 Design Brief Formulation

Credit Points 10 **Level** 3

Prerequisite

300729.3 Graphic Communication and Design OR
301228.1 Drawing and CAD

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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.

301283.1 Design Graphics: Presenting Innovation

Credit Points 10 **Level** 1

Equivalent Units

300302 Industrial Graphics 1: Presentation 301074
Graphics 1: 2D & 3D Industrial Design Communication

Special Requirements - Essential Equipment

Subscription to graphic software required USB or external storage device to store graphic files

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Design visualisation in the form of 2D and 3D graphics is fundamental to the overall design process. This unit provides students with essential knowledge of design principles as used in visual communication. Students will employ graphic techniques to effectively convey a design proposal using creativity, technical skill, and quality design principles in a manner that is consistent with industry expectations. Students will produce graphic work that is portfolio-ready and suitable to display to potential clients and employers.

301309.1 Design Practice: Sustainable Components

Credit Points 10 **Level** 4

Assumed Knowledge

The ability to communicate a design proposal using 2D or 3D computer software with annotations, and application of Australian Standards AS 1100 or related construction standards are desirable

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New Product development in architecture and construction industries draws upon construction knowledge, applied materials specification, design for durable systems, component interfaces supporting assembly and robust design principles with aesthetic considerations, functional and desirable product attributes. This unit forms part of the Design Practice specialisation and builds upon the principles of sustainable manufacturing and product life cycle in response to an emergent construction theme. In this unit, entrepreneurship and product detailing assist decisions that drive future advancements in construction component design.

301308.1 Design Practice: Sustainable Manufacturing

Credit Points 10 **Level** 2

Assumed Knowledge

The ability to communicate a design proposal using 2D or 3D computer software with annotations, and application of Australian Standards AS 1100 is desirable

Special Requirements - Essential Equipment

Vernier Callipers: Analogue or digital

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Reflecting upon the life cycle of products and their components is important in understanding how decisions at the design level impact on people, resources, sustainable goals and how these contribute towards sustainability-oriented local and global value chains. This unit focuses on sustainable decision-making at the design level. It challenges and motivates students towards using sustainability principles to promote good Design for Disassembly (DfD) practices with linkages to material durability, and material reuse. Through a project-based approach, students will appraise manufacturing considerations for product design applying in succession Design for Manufacturing, Assembly and Disassembly (DfM, DfA, DfD) principles to their products and reflect on product lifecycle management best practice.

301291.2 Design Research Methods (Advanced)

Credit Points 10 **Level** 3

Equivalent Units

300314 - Designed Inquiry; 301090 - Contextual Inquiry

Unit Enrolment Restrictions

Students must have completed 160 credit points before enrolling into this unit.

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Design and user research methods are critical in establishing efficient and effective processes around resource utilisation in designing, conducting and presenting research findings that are succinct yet open to new innovations. A range of advanced 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 and within university human ethics policy protocols.

700126.4 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 2 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.

301289.1 Design Semantics: Exploring Product Form

Credit Points 10 **Level** 2

Assumed Knowledge

Students will be required to have basic workshop skills and/or model-making skills. A basic understanding of graphics software, for example Adobe Photoshop and Illustrator, is assumed.

Equivalent Units

300305 - Design Studio 1: Themes and Variations; 301078 - Design Studio 3: Design, Process and Function

Special Requirements - Essential Equipment

Students must complete all safety inductions for each piece of equipment or process prior to using the workshop space. WSU provides WH&S online modules that must also be completed via vUWS.

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Products can engage our senses to evoke an emotional response or mediate an experience. This is a powerful psychological tool for industrial designers to understand in terms of the design interface as it provides a strategic opportunity for innovation. In this unit students will create meaningful and active product relationships, and use product semantics as an agency for proposing design solutions in areas such as health and well-being, ageing populations, and sustainable design.

301302.1 Design Thinking for Competitive Advantage

Credit Points 10 **Level** 4

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Design Thinking has become widely adopted as a novel problem solving mechanism and asset to market growth, resource utilisation, and competitiveness. This approach incorporates human-centric attributes and iterative processes which are features of professional designers co-creating with stakeholders. In this unit, students focus on empathic viewpoints associated with understanding people, markets and the environment. They explore future possibilities for communities using decision-making processes, informed by global challenges as represented through the UNSDGs. This new global societal driver for equitable living standards, economic prosperity, and sustainable societies is explored through online study involving a series of webinars, digital interactions, and conclude with a student prototype presentation.

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.

301301.1 Design Thinking for Successful Brands and Products

Credit Points 10 **Level** 3

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Students will learn how to develop a strategic design management plan that helps a firm not only present itself to its target audience but also clearly differentiate amongst competitors. Foundation design principles involving the evaluation of two-dimensional and three-dimensional designs are explored through a series of case studies based on commercially successful design management strategies. To simulate global, real-world design consultation scenarios students interact in an online environment in preparation for evidence-based innovation in their future workplaces as design managers.

102159.2 Designing Curriculum Futures

Credit Points 10 **Level** 7

Equivalent Units

101660 - Curriculum Futures

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course or 8083 Bachelor of Research Studies

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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.

301281.1 Designing for Circular Economy

Credit Points 10 **Level** 1

Equivalent Units

700126 Design Science (WSTC)

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Traditional linear consumption patterns have placed considerable load on available natural resources. The lack of comprehensive mitigation strategies has motivated local and international efforts around the United Nations Sustainable Development Goals (UNSDGs 2030) to finding resolutions towards making the world more equitable, sustainable, liveable and with opportunities for new sustainable businesses. Students will choose an existing product and apply the principles of the UNSDGs and Circular Economy to create a proposal and prototype to improve upon its current design. Throughout this process the students will consider product usage, durability, bio-ingredients, the product lifecycle, community impact, and sustainability.

301286.1 Designing for People: Applied Ergonomics

Credit Points 10 **Level** 1

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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Ergonomics is the study of the interaction between people, their environments, and their objects. A sound understanding of the principles of ergonomics allows a designer to develop products, systems and environments with optimum product usability and end user safety. In this unit, students are introduced to modelling workshop procedures and undertake their own ergonomic study. Students then build and test a hand-held scale product, and integrate user feedback into their redesign.

301284.1 Designing for User Experience (UX)

Credit Points 10 **Level** 1

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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Understanding product-oriented user requirements and mapping user experience journeys provide rich inputs for new product and service innovations. In this unit the focus is on user needs and the interactive elements, when combined, create successful user experiences through impactful user interfaces, and highly differentiated outcomes. Creating strong emotional, sensorial and functional connections are essential in supporting inclusive design, engaged usability, and high quality human-centred experiences, when delivering successful products and services. Students will engage in an applied project in response to an interactive design challenge.

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.

101636.3 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.

300111.3 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.

101896.2 Development and Security

Credit Points 10 **Level** 7

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, global inequalities both within and between countries have increased, which have been complicated by competitions between groups, actors and countries. These may pose development and security challenges at national and global scales. This unit will concentrate on three key aspects. First, it will interrogate the complex relationship between development and security from interdisciplinary perspectives. 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. Third, relevant case studies will

be embedded throughout the unit contents to enhance students' analytical skills and practical orientation on the field of development and security.

300723.3 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.

101897.2 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.

101682.7 Developmental Psychology

Credit Points 10 **Level** 3

Assumed Knowledge

Basic understanding of core concepts of personality, social and developmental psychology

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Structured around an overview of lifespan development including diversity, this unit explores the holistic nature of growth and development through developmental theory and research. This unit highlights the interactive nature of three main areas of development: biological, cognitive, and psychosocial changes that affect the individual from conception to end of life. The unit encourages observation as a means for understanding development and promoting individuals wellbeing. An understanding of Aboriginal and Torres Strait Islander development will be integrated into the unit alongside an appreciation of richness in diversity within various cultural contexts.

102344.2 Different Ways of Being in the World: Introduction to Social Anthropology

Credit Points 10 **Level** 1

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.

200030.5 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.

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.

301225.1 Digital Construction

Credit Points 10 **Level** 4

Assumed Knowledge

Building construction including residential, light industrial and small commercial, basic building measurement and estimating.

This unit offers knowledge and skills essential for a successful application of Building Information Modelling (BIM) in the context of built environment. Building Information Modelling (BIM) has the potential to improve integration between design and construction processes, reduce design discrepancies and rework, optimise project time and cost performance, and manage risks. Students will develop an understanding of the generation, reviewing and application of 3D, 4D and 5D BIM models in building projects. Virtual and augmented reality, spatial information capture and performance management systems will also be introduced. This unit will be taught through intensive practice-based workshops and computing labs, enabling students to build skills in virtual design and construction processes.

300874.3 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), 3562 Bachelor of Science (Advanced Science)(Forensic Science) or MT3022 Forensic Science

Special Requirements - Essential Equipment

Lab coat, Forensic science grip kit, Camera memory card

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.

102426.1 Digital Humanities Research Methods (PG)

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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.

102253.2 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.

700240.3 Digital Systems 1 (WSTC AssocD)

Credit Points 10 **Level** 1

Assumed Knowledge

Knowledge on basic principles of analysing an electric circuit, Kirchhoff's Voltage and Current laws and their use in electric circuits and concept of operational amplifier and its circuit would be desirable.

Prerequisite

700112.3 Fundamentals for Engineering Studies (WSTC AssocD)

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 which is foundational to the fields of electrical and computer engineering. Digital logic design involves building electronic components and hardware, such as circuit boards and microchip processors. Students are first introduced to the fundamentals of digital logic, basic logic devices and Boolean algebra. This is followed

by analysis and design of combinational and sequential logic circuits.

300880.2 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.

301111.2 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.

301111.3 Discovery Project

Credit Points 10 **Level** 3

Assumed Knowledge

Completed the bachelor's degree units in the students primary discipline.

Unit Enrolment Restrictions

Students in following courses must have completed 160 credit points before enrolling into the unit: 3754 Bachelor of Science 3756 Bachelor of Science (Pathway to Teaching Primary/Secondary) 3769 Bachelor of Data Science Students in following courses must have completed 200 credit points before enrolling into the unit: 2743 Bachelor of Science/Bachelor of Laws 3757 Bachelor of Advanced Science 3763 Bachelor of Science/Bachelor of Arts 3764 Bachelor of Science/Bachelor of International Studies 3770 Bachelor of Applied Data Science 3778 Bachelor of

Mathematics 4748 Bachelor of Science/Bachelor of Business 6043 Diploma in Science/Bachelor of Science

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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.

300867.2 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.

300115.4 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.

102736.1 Diversity, Language and Culture

Credit Points 10 **Level** 1

Equivalent Units

100960 - Contemporary Society, 700132 - Contemporary Society (WSTC), 700292 - Diversity, Language and Culture (WSTC)

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The purpose of this unit is to equip students with skills to understand and navigate a culturally and linguistically diverse society, including that of Greater Western Sydney. Students will gain an historically informed, critical understanding of the meaning of culture, the impact of colonisation, indigenous Australian cultures, and of approaches to diversity, multilingualism and multiculturalism. They will explore the value of their existing and emerging skills in bilingualism and cross-cultural communication as tools to navigate a rapidly changing global environment. Students will practice their intercultural communication skills in a team setting through a virtual field trip to an Australian community.

301228.1 Drawing and CAD

Credit Points 10 **Level** 1

Equivalent Units

700150 Graphic Communication and Design (WSTC)
300729 Graphic Communication and Design

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This unit is designed to provide students with the knowledge and skills necessary to develop elementary design skills and basic CAD (Computer Aided Design) proficiency suitable for application within the building industry. Students will learn to describe building designs in plan, section, elevation, isometric and perspective views. Basic drafting concepts and skills will be acquired in the context of individual detached housing designs. Students will also be required to develop appropriate analytical and problem solving skills in dealing with a realistic house building project.

700306.1 Drawing and CAD (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

700150 - Graphic Communication and Design (WSTC);
300729 - Graphic Communication and Design; 301228 - Drawing and CAD

Unit Enrolment Restrictions

Students must be enrolled at The College. Students in Extended Diploma courses must pass 40 CPs of preparatory units in order to enrol in this unit. Students in Integrated Diploma courses must pass or be enrolled in the preparatory units in order to enrol in this unit.

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This unit is designed to provide students with the knowledge and skills necessary to develop elementary design skills and basic CAD (Computer Aided Design) proficiency suitable for application within the building industry. Students will learn to describe building designs in plan, section, elevation, isometric and perspective views. Basic drafting concepts and skills will be acquired in the context of individual detached housing designs. Students will also be required to develop appropriate analytical and problem solving skills in dealing with a realistic house building project.

301285.1 Drawing Skills for Design Thinking

Credit Points 10 **Level** 1

Special Requirements - Essential Equipment

A4 Process Diary 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) or Windsor & Newton (W1, W2, W3) Soft blue pencil (Watercolour pencil eg Faber Castel brand or similar) Pentel Sign Pen A3 or A2 Carry case to carry drawings flat

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Drawing skills can unlock and translate creative thoughts as actions, iterations, and guide collaborative dialogue in meeting common goals. In combination with Design Thinking essentials which include empathy, ideation, and experimentation, practiced drawing skills can accelerate decision-making for individuals or groups. This unit is focused on developing hand drawing skills as a tool for generating creative ideas and design solutions. Students will attain an understanding of spatial relationships between humans and objects, and natural and built environments. The emphasis is on using drawing as a method for conducting exploratory investigations, recording creative

thinking processes through ideation and inspiring innovation. Students will gain confidence in communicating their creative ideas to a wide audience.

300480.3 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

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.

300839.2 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

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

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.

900030.4 Economics (WSTC)

Credit Points 10 **Level** Z

Equivalent Units

700217 - Economics (WSTC Prep)

Unit Enrolment Restrictions

Students must be enrolled in a Western Sydney University, The College Foundation Studies course.

This unit is designed to familiarise students with some of the basic concepts and relationships of the discipline. It was developed to prepare students for undergraduate study in the academic discipline area of commerce/business and educate students as to the crucial role economic decisions have in society and how economic problems and issues dominate media and politics. By understanding Economics, students are empowered to participate effectively and knowledgeably in economic debate.

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.

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.

800174.1 Economies and Ecologies

Credit Points 10 Level 7

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This unit examines how the economy is being reclaimed as a space of political decision in the Anthropocene, the new geological epoch in which human activity is having global impact on the Earth's ecosystems. It critically explores how different ways of thinking about economy shape the worlds we inhabit. It analyses contemporary examples of economic experimentation and human-non-human assemblages that are making 'other worlds' possible. It explores connections between ecological and economic thinking and asks how our conception of the economy and subjectivity changes when we consider the needs of other species as well as our own.

300856.2 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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From 2020 students should note that core units are now taught in semesters rather than half yearly sessions. 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.

700104.3 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.

700024.4 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 2 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.

700242.2 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

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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.

102575.2 Emergency and Disaster Management

Credit Points 10 Level 7

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This unit uses comparative analysis of different emergency responses to humanitarian disasters to provide students with the skills and knowledge required to play a role in future emergency and disaster management. Students will gain knowledge of the geo-political forces and key international frameworks and standards that shape humanitarian responses, and of the motivations and approaches of aid donors and humanitarian NGOs when intervening in states. They will also gain foundational knowledge of assessment of NGO capacities and organisational infrastructure for managing emergencies, for example their organisational structures and cultures, donor priorities, support systems and personnel.

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 five years.

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This unit serves to enhance the technological education and training for students undertaking research in biological, agricultural and medical sciences. The unit will teach

current and emerging technologies utilised in biological investigations with a focus on model species of animals, plants, insects and microorganisms. The unit is structured around emerging technologies in research fields of: 1) whole organism physiology, 2) cell molecular biology and biochemistry, and 3) genomic and epigenomic processes encoded by the nucleus. Students will be exposed to a systems approach in order to investigate complex interactions with a view towards understanding the impacts of the environment on biological interactions. Teaching will be undertaken by Western Sydney University-HIE staff who are world leaders in their respective research fields.

300584.5 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.

300942.3 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.

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.

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.

102148.1 Engaging Communities

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course, with the exception of those students enrolled in the 8083 Bachelor of Research Studies.

From 2020 students should note that core units are now taught in semesters rather than half yearly sessions. 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.

700106.3 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.

700018.3 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 Year2 units.

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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.

300481.3 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

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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.

301001.2 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

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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.

300965.2 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)

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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.

700147.3 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

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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.

700152.5 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 700146 Mathematics 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 2 units.

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 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.

300963.2 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)

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 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.

700153.3 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

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 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.

700151.4 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 2 units.

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 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.

700110.3 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.

300971.2 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.

300972.2 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.

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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.

300967.2 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.

300968.2 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.

700270.1 English for International Students 1 (WSTC Prep)

Credit Points 0 **Level** Z

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900120.1 English for International Students 1 (WSTC)

Credit Points 0 **Level** Z

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This unit is designed to meet the academic literacy needs of International students completing the Extended Diplomas in Arts, Building Design Management, Business, Communication, Construction Management, Criminal and Community Justice, Design, Engineering, Health Science, ICT, Science, Social Science and Policing. It is designed specifically for International students who have met the IELTS specifications of these courses. The unit will support these students in understanding how to perform successfully within it in terms of academic literacy skills. Specifically, this unit will focus on improving students' listening and reading comprehension skills, writing skills, speaking, vocabulary and grammar. It consists of 2 hours per week of face-to-face instruction in order to provide students with targeted, structured support.

900121.1 English for International Students 2 (WSTC)

Credit Points 0 **Level** Z

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This unit is designed to meet the academic literacy needs of International students completing the Extended Diplomas in Arts, Building Design Management, Business, Communication, Construction Management, Criminal and Community Justice, Design, Engineering, Health Science, ICT, Science, Social Science and Policing. The unit will support these students in understanding how to perform successfully within it in terms of academic literacy skills. Specifically, it will focus on improving students' reading, listening, speaking and writing skills, as well as expand on skills covered in English for International Students 1. It consists of 2 hours per week of face-to-face instruction in order to provide students with targeted, structured support.

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.

102813.1 English Talk

Credit Points 10 **Level** 3

Equivalent Units

102476 - English Language Linguistics

In English Talk students engage with spoken forms of English communication, ranging from the casual conversations and interactions of everyday life, through the spoken texts of contemporary media to the more formal spoken genres of political speeches, lectures and other forms of public discourse. Students learn how to analyse forms of spoken English using speech act theory, conversation analysis, and functional models of analysis. Students are provided opportunities to consider their own participation in spoken forms of discourse in English by constructing, analysing and redeveloping the kinds of spoken interaction they will participate in in professional and social settings.

102812.1 English Text

Credit Points 10 **Level** 2

The English Language is always used in context. The contexts in which we use English require us to use the language in specific ways. This unit introduces students to the analysis of English texts in context. Students will learn how to analyse text structure and purpose, and they will learn how to analyse the systems of the English language as they are used to facilitate context specific and context appropriate communication. Working between models of social contexts and the language level systems of English, students will develop a greater level of skill in using English for exposition, explanation, reporting, recounting and narrating.

200614.3 Enterprise Industrial Relations

Credit Points 10 **Level** 2

Prerequisite

200300.2 Managing People at Work

Equivalent Units

61432 - Enterprise Industrial Relations

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

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.

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, 7098 Diploma in Business, 7102 Diploma in Business Extended or 7110 Diploma in Building Design Management Extended.

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 2 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

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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 or 7102 Diploma in Business Extended 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 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 2 units.

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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.

301222.1 Envelope and Services

Credit Points 10 **Level** 4

Assumed Knowledge

Detailed knowledge of construction technology applicable to high rise buildings

Equivalent Units

200471 Construction Technology 5 (Envelope) 300725 Construction Technology 6 (Services)

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The building envelope and its inter-relationship with building services are critical to the successful functioning of our modern built environment. In this unit students will learn how to minimise operational energy requirements by making good choices in terms of materials and systems which focus on end-user needs. Measurement of building performance and continuous improvement is addressed alongside compliance with building codes and relevant Australian standards.

301062.2 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.

700255.2 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 2 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.

300737.5 Environmental Engineering

Credit Points 10 **Level** 2

Equivalent Units

85021 - Environmental Engineering

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This unit teaches the fundamental theory and methods required for a civil engineer to solve environmental issues they would face in their professional life.

300981.2 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.

102339.3 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.

301035.2 Environmental Informatics

Credit Points 10 **Level** 3

Prerequisite

300700.5 Statistical Decision Making OR **200263.5** Biometry OR **200032.5** Statistics for Business

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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.

301271.1 Environmental Issues and Solutions

Credit Points 10 **Level** 1

Equivalent Units

300821 Environment and Health

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This unit explores a variety of environmental issues with a focus on emerging environmental issues. The relationships between human health and environmental health are explored through a number of case studies. Concepts explored include 21st Century contaminants, noise, energy and water. Through a combination of case studies and practical field experience, students will develop the skills and knowledge appropriate to develop solutions to a variety of environmental issues. Students enrolled in the Undergraduate Certificate in Environmental Sustainability will not complete the practical field experience component of this unit, as they will be studying online.

500053.1 Environmental Issues and Solutions (UG Cert)

Credit Points 10 **Level** 1

Equivalent Units

300821 Environment and Health, 700296 Environmental issues and Solutions, 301271 Environmental issues and Solutions

Unit Enrolment Restrictions

Students must be enrolled in the following course: 7175 Undergraduate Certificate of Environmental Sustainability

Special Requirements - Essential Equipment

Students need a computer with reliable internet connection, Microsoft Office, webcam and microphone

.....
This unit explores a variety of environmental issues with a focus on emerging environmental issues. The relationships between human health and environmental health are explored through a number of case studies. Concepts explored include 21st Century contaminants, noise, energy

and water. Through a combination of case studies and practical field experience, students will develop the skills and knowledge appropriate to develop solutions to a variety of environmental issues.

301408.1 Environmental Monitoring and Assessment

Credit Points 10 **Level** 2

Special Requirements - Essential Equipment

Students will require enclosed footwear for field work, as well as lab coats and personal protective equipment for working in the environmental laboratories on campus

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In this unit, you will develop the practical skills and underlying scientific knowledge required to address environmental questions across natural and built environments. Through practicals, workshops, and an independent research project you will learn how to design a monitoring and assessment program to characterise different environment situations, interpret data and propose management solutions to contemporary environmental challenges. The unit will introduce a range of topics, including the application of geographic information systems (GIS), remote sensing methodologies, environmental sensors, the internet of things and citizen science approaches to understand and improve environmental situations, and provides opportunities to research a chosen, real-world topic to assess an aspect of environmental sustainability.

300840.2 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.

301403.1 Environmental Planning, Policy & Regulation

Credit Points 10 **Level** 3

Assumed Knowledge

It is expected that the students will have completed some level 1 units that have some environmental content

Equivalent Units

300840 Environmental Planning and Climate Change
300841 Environmental Regulations and Policy

Special Requirements - Essential Equipment

Outdoor attire for field-work activities

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This unit is an introduction to environmental planning and environmental regulations in local and state governments. It covers the role of planning and enforcement of regulations in protecting the natural environment, enhancing public health and/or encouraging sustainable development practices. Students become familiar with the key legislation for environmental protection and then explore how planning and regulations can assist with achieving optimal environmental outcomes. Current planning and regulations are examined using urban development and planning in Sydney as the primary case study. The unit includes key environmental planning policies and important legislation used by state, local and Commonwealth governments to protect the natural and built environment and to protect public health.

301274.1 Environmental Planning, Policy & Regulation

Credit Points 10 **Level** 2

Assumed Knowledge

It is expected that students will have completed some Level 1 units that have some environmental content

Equivalent Units

300840 Environmental Planning and Climate Change
300841 Environmental Regulations and Policy

Special Requirements - Essential Equipment

Outdoor attire for field-work activities

.....

This unit is an introduction to environmental planning and environmental regulations in local and state governments. It covers the role of planning and enforcement of regulations in protecting the natural environment, enhancing public health and/or encouraging sustainable development practices. Students become familiar with the key legislation for environmental protection and then explore how planning and regulations can assist with achieving optimal environmental outcomes. Current planning and regulations are examined using urban development and planning in Sydney as the primary case study. The unit includes key environmental planning policies and important legislation used by state, local and Commonwealth governments to protect the natural and built environment and to protect public health.

300872.2 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.

700121.4 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 2 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.

300803.2 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.

700310.1 Essential Literacy for Construction Professionals I (WSTC Prep)

Credit Points 10 **Level** Z

Equivalent Units

700209 - Introduction to Academic Communication 1 (WSTC Prep); 700275 - Communication Skills for Construction Management (WSTC Prep); 700276 - Academic and Professional Communication (WSTC Prep); 700280 - Essential Skills for Academic Success (WSTC Prep); 700283 - Professional Communication Skills for Engineering (WSTC Prep); 900107 - Introduction to Academic Communication 1 (WSTC Prep)

Unit Enrolment Restrictions

Students must be enrolled at The College in 7136 - Diploma in Building Design Management Extended or 7165 - Diploma in Construction Technology Extended

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This unit is designed to improve the English proficiency of Construction Technology 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 to improve grammatical skills that relate to academic writing, summarise and synthesise information, and understand why, when and how to cite information.

700319.1 Essential Literacy for Construction Professionals II (WSTC Prep)

Credit Points 10 **Level** Z

Prerequisite

700310.1 Essential Literacy for Construction Professionals I (WSTC Prep)

Equivalent Units

700056 - Academic English; 700210 - Introduction to Academic Communication 2 (WSTC Prep); 900021 -

Academic English; 900108 - Introduction to Academic Communication 2 (WSTC Prep)

Unit Enrolment Restrictions

Students must be enrolled at The College in 7136 - Diploma in Building Design Management Extended; 7165 - Diploma in Construction Technology Extended; 6031 - Diploma in Building Design Management/ Bachelor of Building Design Management; 6045 - Diploma in Construction Technology/Bachelor of Construction Technology

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This unit is designed to improve the English language proficiency of local and international Construction Technology students and to improve the English proficiency of Construction Technology students. The unit further develops the expository skills developed in Essential Literacy for Construction Professionals I and introduces critical writing techniques. The unit uses authentic genres and writing techniques common in Academic writing. Through the development of these techniques students will improve critical literacy skills that relate to academic writing and spoken and written genres that are typical in the Construction Technology profession.

300726.3 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.

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.

301124.3 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.

102250.2 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.

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

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.

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.

102346.2 Ethnographies of Southeast Asia and the Pacific

Credit Points 10 **Level** 2

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.

300935.3 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) or in MT3022 Forensic Science are not eligible to take this unit as an elective.

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.

301253.1 Evolution and Genetics

Credit Points 10 **Level** 3

Prerequisite

300816.1 Cell Biology AND **300802.2** Biodiversity

Incompatible Units

300980 Principles of Evolution

Special Requirements - Essential Equipment

Laboratory coat and covered shoes for practicals

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This unit will ensure students are able to understand the core concepts in modern evolutionary theory and the central position that evolution plays in unifying all sub-disciplines of biology. It will also enable students to distinguish the major genetic mechanisms that underpin these theories and critically assess the general importance of genetics in the evolutionary process. In particular, students will gain an in depth knowledge on speciation and population divergence, origin of genetic variation, genetic drift and founder effects, natural and sexual selection, migration, mutation and coevolution, with a major emphasis on genetic mechanisms and the analytical techniques used to assess them. Students may be required to travel to a different campus to undertake this unit.

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.

.....

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.

100013.4 Experimental Design and Analysis

Credit Points 10 **Level** 2

Prerequisite

101183.2 Psychology: Behavioural Science

This pre-requisite will not apply to students enrolled in courses 1630 Graduate Diploma in Psychological Studies and 1796 Graduate Diploma in Psychology. Enrolment in these awards requires graduate status; hence the students have demonstrated proficiency in tertiary studies. Each applicant in these awards is assessed individually and provided with an individual study sequence by the Course Advisor. This pre-requisite will not apply to students enrolled in course 1837 Bachelor of Cyber Security and Behaviour.

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This unit is driven by the scientific method with a focus on experimental design and related data analysis. Although some of the methods and techniques are dealt with in passing in earlier units, a more complete approach is adopted here. Research design and methodology issues, statistical concepts and techniques, computer analysis of data, and communicating research findings are all features of this unit.

401162.1 Experimental Design and Analysis (PG)

Credit Points 10 **Level** 7

Assumed Knowledge

Students must have successfully completed an undergraduate degree in a related discipline

Unit Enrolment Restrictions

The supervisor must be research-active and have sufficient funding and resources for this project.

Special Requirements - Essential Equipment

Students are expected to supply protective clothing appropriate for laboratory and/or fieldwork studies.

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This elective unit will develop research competencies for students in health, medical, biomedical and natural sciences, enabling these students to enhance their understanding of research by attaining specific research goal/s that will contribute to the completion of a confirmation of candidature (COC) as part of the Masters of Research. In consultation with their supervisory panel, students will be expected to design and execute a small or pilot research project and to then analyse and present results obtained in this project. The skills acquired in Experimental Design and Analysis will provide a firm foundation in the experimental and research methods required by the student for their research project in the second year of the Masters of Research. The skills acquired in this unit will be enhanced in the unit Advanced Research Skills.

401266.2 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.

401267.2 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.

300879.2 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.

200589.3 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.

300804.2 Feeding the Planet

Credit Points 10 **Level** 1

Equivalent Units

300502 - Primary Production

Special Requirements - Essential Equipment

PPE consisting of closed Footwear, Lab coat, approved safety glasses.

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This unit will explore the concepts driving current food production science (population growth, urbanization, emerging affluence, resource constraints, and underlying biological limits) in terms of their universal life cycles, constraints to production and societal issues. Throughout the unit, key questions will be addressed: What are the major health benefits and potential concerns regarding the intensification of production and consumption of food? How does agricultural production affect the efficient use of resources and impact our environment? Can costs of production be reduced to meet the growing demand for food products around the globe while maintaining health and safety for consumers? What are the different types of food production systems? Myths and misconceptions surrounding the food systems will be discussed and analysed. The unit is geared towards learners who seek a greater understanding of food systems and have a desire to learn more about issues surrounding sustainability.

300913.2 Field Project 1

Credit Points 10 **Level** 3

Prerequisite

300662.1 Research Methods OR **300932.2** 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 either the Bachelor of Science (Environmental Health) or Bachelor of Natural Science (Environment and Health) degrees. All other students enrolling externally will need Unit Coordinator approval.

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Unit 300913 Field Project 1 and the associated unit 300914 Field Project 2 are designed as capstone units of study for either the Bachelor of Science or Bachelor of Natural Science degrees. They draw together the skills acquired in previous years of the course and apply them in the context of either a six-month or a year-long research project exploring a real world problem on behalf of an industry, government or community agency client. 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 reporting the results. Note: Students enrolling in the external offering of this unit must be externally enrolled in either the Bachelor of Science (Environmental Health) or Bachelor of Natural Science (Environment and

Health) degrees. All other students enrolling externally will need Unit Coordinator approval.

300914.2 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 either the Bachelor of Science (Environmental Health) or Bachelor of Natural Science (Environment and Health) degrees. All other students enrolling externally will need Unit Coordinator approval. Students who completed the 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.

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Field Project 2 allows the student to extend the research project undertaken as the pilot study in Field Project 1. Note: Students enrolling in the external offering of this unit must be externally enrolled in either the Bachelor of Science (Environmental Health) or Bachelor of Natural Science (Environment and Health) degrees. All other students enrolling externally will need Unit Coordinator approval. Students who completed the 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.

301377.1 Fields and Equations

Credit Points 10 **Level** 3

Assumed Knowledge

Basic notions in algebra, such as equivalence relations, groups, homomorphisms and isomorphisms.

Prerequisite

301376.1 Groups and Symmetry

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This unit develops abstract algebraic thought to a higher level. The abstract concepts introduced in the unit, ring theory, field theory and algebraic equations, have many applications in science and technology. The theory of algebraic equations is the study of solutions of polynomial equations. Although the problem originates in explicit manipulations of polynomials, the modern (and far more powerful) treatment is in terms of field extensions. The unit is an introduction to ring theory and field theory; it includes applications to cryptography (RSA) and geometry (proving that it is impossible to trisect an arbitrary angle using only a straightedge and compass).

800213.1 Fieldwork in Complex and Hostile Places

Credit Points 20 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate or High Degree Research course code.

Special Requirements - Essential Equipment

Adequate clothing to work outdoors in the simulated learning environment.

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Working overseas is demanding and poses unique research challenges as well as risks to personal security and safety. This seven-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.

200111.4 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)

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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.

200048.3 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.

301380.1 Financial Mathematics

Credit Points 10 **Level** 3

Assumed Knowledge

Calculus, Riemann integration, QR factorisation and generalised inverses of matrices, first and second order differential equations.

Prerequisite

[300672.3](#) Mathematics 1A AND [300673.3](#) Mathematics 1B AND [200027.4](#) Linear Algebra AND [200030.5](#) Differential Equations

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This unit is an introduction to stochastic calculus and relevant simulation techniques applied to modern finance and the mathematical modelling of financial markets. The core topics developed in the unit are the Ito stochastic integral, Ito's formula, and basic stochastic differential equations, as well as computer simulation techniques with emphasis on Monte Carlo simulations. Some mathematical background is assumed, but the unit will cover any necessary material that is not contained in prerequisites units.

51054.4 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.

101315.4 Financing Cities in the Global Economy

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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Financing infrastructure to keep cities running and growing at a time when governments face new financial constraints is a key challenge for urban managers. In order to be able to contribute to the debate about financing cities it is important for future urban managers to develop a basic financial literacy, understand and draw on the options for financing essential urban functions in Australia cities and elsewhere, and assess the tensions involved in public and private financing pathways. This unit addresses these needs through both theoretical and practical approaches to the city as a set of flows within a wider urban network of relations. Students develop their understanding via interactive lectures, case studies, fieldwork exercises and assignments.

200910.2 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.

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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.

700111.3 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

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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.

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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.

900104.2 Focus on Biology (WSTC)

Credit Points 10 **Level** Z

Equivalent Units

700232 - Focus on Biology (UWSCFS)

Unit Enrolment Restrictions

Students must be enrolled at The College in Foundation Studies courses.

Special Requirements - Essential Equipment

Safety glasses, lab coat.

.....

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.

200992.2 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.

300915.2 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.

300859.2 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.

300805.2 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.

300842.3 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.

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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.

300843.2 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

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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.

301120.3 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

Successful completion of 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.

401170.3 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.

300868.2 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

300843.1 Forensic and Environmental Analysis OR **300832.2** Analytical Chemistry

Equivalent Units

300494 - Forensic Chemistry

Special Requirements - Essential Equipment

Safety glasses and laboratory coat.

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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).

300806.2 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.

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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.

102621.2 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.

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.

900079.2 Foundation Physics 1 (WSTC)

Credit Points 10 **Level** Z

Assumed Knowledge

Year 10 Mathematics and Science or equivalent.

Equivalent Units

700144 - Foundation Physics 1 (WSTC)

Incompatible Units

900068 - Physics (WSTC), 700026 - Physics (WSTC Prep)

Unit Enrolment Restrictions

Students must be enrolled in a Foundation Studies course at The College.

.....

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.

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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.

900080.2 Foundation Physics 2 (WSTC)

Credit Points 10 **Level** Z

Assumed Knowledge

Year 10 Mathematics and Science or equivalent

Prerequisite

900079.1 Foundation Physics 1 (UWSC)

Equivalent Units

700145 - Foundation Physics 2 (UWSCFS)

Incompatible Units

900036 - Physics (UWSC); 700026 - Physics (UWSCFS)

Unit Enrolment Restrictions

Students must be enrolled in a Foundation course at 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.

102735.1 Foundations of Academic English

Credit Points 10 **Level** 1

Equivalent Units

100846 - Analytical Reading and Writing, 700131 - Analytical Reading and Writing (WSTC), 700291 - Foundations of Academic English (WSTC)

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Academic English is a particular kind of English that is used in academic writing and other professional contexts. This unit aims to improve students' written communication skills in academic English. The unit content includes English grammar as well as analytical reading and writing in academic English. Students will also learn to identify and to make cogent and sophisticated arguments using various written formats. Student work will be assessed in terms of theoretical and applied knowledge as well as in terms of writing skills.

200979.2 Foundations of Entrepreneurship

Credit Points 10 **Level** 1

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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 Business Model Canvass (BMC) case study of a real start-up company or completing a BMC of their own entrepreneurial venture (for students already undertaking an entrepreneurial project).

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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In 2021, this unit replaced by unit 102825 - Introduction to Screen Media. 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.

900053.3 Foundations of Science (WSTC)

Credit Points 10 **Level** Z

Unit Enrolment Restrictions

Students must be enrolled in a Western Sydney University The College Foundation Studies course.

.....

This unit aims to provide students with sufficient knowledge of scientific facts and theories to provide the basis for further studies in science, engineering and technology. 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. Major areas of science – physics, chemistry and biology are represented within the unit and presented in context within an integrated framework.

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.

.....

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.

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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. This unit is available to all Undergraduate students who have open electives.

400881.3 Functional Anatomy

Credit Points 10 **Level** 1

Prerequisite

400868.2 Human Anatomy and Physiology 1

Equivalent Units

400134 - Human Medical Sciences 3, 401410 - Functional Anatomy

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.

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From 2020 this unit is replaced by 401410 - Functional Anatomy. 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.

102336.1 Functional Grammar

Credit Points 10 **Level** 7

Equivalent Units

100722 - Functional Grammar

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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In 2018 this unit replaced by 102621 - Functional Grammar. This unit invites students to study the functional grammar of English, which relates the structure of the English language to its use in cultural and social contexts. This model of language is used in a wide variety of fields - teaching in university or school subject areas, teaching ESL/EFL, and researching language use in a range of settings. Students will apply the functional analysis of English to a variety of spoken and written texts drawn from a range of social contexts.

300936.2 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

Students 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.

700112.3 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.

200977.3 Fundamentals of Australian Law

Credit Points 10 **Level** 1

Equivalent Units

200006 - Introduction to Law, 700157 - Introduction to Law (WSTC)

Incompatible Units

200909 - Enterprise Law, 700254 - Enterprise Law (WSTC)

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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, academic integrity, how law is made, how cases and statute interact, the Australian court hierarchies, case analysis skills, statutory interpretation skills, an introduction to the role of legal professionals in Australia.

700113.3 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.

700023.4 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 Year2 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.

300950.3 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.

900105.1 Fundamentals of Science (WSTC)

Credit Points 10 **Level** Z

Equivalent Units

700231 - Fundamentals of Science (UWSCFS)

Unit Enrolment Restrictions

Students must be enrolled at The College in a Foundation Studies course.

Special Requirements - Essential Equipment

Approved safety glasses, lab coat

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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.

300491.3 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.

300820.2 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

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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.

300845.2 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

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Our ability to rapidly and cheaply sequence a genome, ranging from humans, to native and domesticated plants and animals, and infectious bacteria and viruses, has revolutionised the field of genetics. More than ever, we understand our genetic relationship to life on earth, uncovering surprising similarities between our genome and the genomes of small worms and fruit flies. This unit will compare the genomes of different organisms and apply the methodology and theory of modern genetics to understand how the diversity of genetic variability impacts the structure and evolution of genomes, the expression of genes, and ultimately on the health and form of an organism.

301268.1 Global Change Ecology

Credit Points 10 **Level** 3

Assumed Knowledge

Students will be expected to apply previous knowledge in mathematics, chemistry and biology.

Prerequisite

300839.1 Ecology AND **300837.1** Climate Change Science

Unit Enrolment Restrictions

Successful completion of 40 credit points at Level 2

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Students in Global Change Ecology synthesize and apply their knowledge about how ecological systems are responding to human impacts occurring in the Anthropocene, and how adaptation and mitigation can moderate these impacts. Students will demonstrate attributes expected of Ecology graduates, including skills in oral and written communication, quantitative analysis, and critical thinking. Guest speakers from the research community and industry will be invited to represent potential career paths related to ecological sustainability and the broader career destinations of science graduates.

102200.2 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.

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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.

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This unit explores how innovation in the digital era is transforming society on a global scale. Reflecting on examples drawn from around the world, students learn about the latest trends in communication, media, computing and the knowledge economy. Current and future directions are surveyed in the context of contemporary issues such as big data, digital identity and privacy, social media and crowdsourcing, gaming and visualisation, geographical information systems, virtual environments and artificial intelligence.

102576.2 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.

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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.

102345.2 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.

200848.4 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.

700150.3 Graphic Communication and Design (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

300729 - Graphic Communication and Design 301228 - Drawing and CAD

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.

102276.2 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 OR [301168.1](#) Incubator 3: Product Development

Unit Enrolment Restrictions

Successful completion of 160 credit points in currently enrolled course.

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This unit focuses on the development of your industry orientated practice and personal portfolio development. 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. You will continue to refine and develop your visual language, material and digital skills, and continue to develop as an independent learner. The unit will culminate in an industry event, where students will have the opportunity to get their portfolios critiqued by design industry representatives.

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.

301074.3 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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From 2020, this unit will be replaced by equivalent unit 301283 - Design Graphics: Presenting Innovation. 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.

102698.2 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.

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In 2021, this unit replaced by 102853 - Cool Green Cities. 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.

301097.2 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.

301376.1 Groups and Symmetry

Credit Points 10 **Level** 3

Assumed Knowledge

Logic, proof techniques: direct proof, proof by division into cases, proof by contradiction, proof by induction.

Prerequisite

200025.3 Discrete Mathematics

Equivalent Units

200193 Abstract Algebra

This unit develops abstract algebraic thinking to a higher level. The abstract concepts introduced in the unit, the theory of groups and abstract symmetry, have many applications in science and technology. Symmetry plays a role in many different contexts: in crystals, in visual arts, in music and in architecture, to name a few. Analysing and exploiting the symmetries of a particular problem often is the first step towards finding a practical solution to the problem. Group theory is the study of symmetry. This unit develops the language of groups and techniques to understand the structure of groups.

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.

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 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.

401388.1 Health Administration and Management

Credit Points 10 **Level** 1

Incompatible Units

400277 - Health Services Management

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 introductory understanding of health administration and management practice and business skills required in an evolving health landscape in concordance with the international competency framework for health administrators and managers.

900106.1 Health Care Environments (WSTC)

Credit Points 10 **Level** Z

Equivalent Units

700226 - Health Care Environments (UWSCFS)

Unit Enrolment Restrictions

Students must be enrolled at The College in a Foundation Studies course

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Health care environments introduces students to foundation knowledge for health science level units in their degree. This includes supporting the independence and wellbeing 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.

900081.2 Health Communication (WSTC)

Credit Points 10 **Level** Z

Equivalent Units

900067 - Nursing Communication (UWSC)

Unit Enrolment Restrictions

This unit is only available to College students enrolled in Foundation Studies courses.

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Health Care Professionals work in an environment where a high level of communication with others is of paramount importance. Oral, written and interpersonal communication skills form the cornerstone of good professional practice. This unit is designed to help students develop self-awareness, increase their confidence and skills in communicating with others in preparation for the practicum experiences during their undergraduate studies.

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.

101193.5 Health Psychology

Credit Points 10 **Level** 3

Assumed Knowledge

Basic understanding of core concepts of personality, biological, social and developmental psychology and research methods is desirable.

Prerequisite

101183.3 Psychology: Behavioural Science AND **101184.3** Psychology: Human Behaviour

Equivalent Units

B3916 - Health Psychology

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Health Psychology is a branch of psychology concerned with the inter-relationship between psychological factors and physical health. It addresses such issues as the possible role of psychological characteristics in health maintenance and promotion, and in the development of illness. Other aspects include reactions to illness, the contribution of psychology to treatment, and explicit means by which health-relevant behaviours might be modified. This unit provides an introduction to Health Psychology and covers theoretical and research issues, the nature and management of stress and pain, issues concerning the receipt of health care and a selection of specific health problems.

400277.5 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)

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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 introductory understanding of health administration and management practice and business skills required in an evolving health landscape in concordance with the international competency framework for health administrators and managers.

401393.1 Health Services Management

Credit Points 10 **Level** 2

Corequisite

401388.1 Health Administration and Management

Incompatible Units

400787 - Health Services Management Practice, 400279 - Health Services Financial Management

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The unit builds on previous Health Services Management curriculum. It is focused on the changing role of the health services manager and competencies required to manage and lead health services efficiently and effectively in both current and emerging areas of healthcare and health management. Various management functions are explored through 140 hours of placement with blended learning activities including: strategic management, values-based healthcare, quality and safety, risk and governance, health services policy and performance management, finance and resource allocation.

400787.4 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.

300955.3 Healthcare Data Environments

Credit Points 10 **Level** 3

Prerequisite

300566.2 Introduction to Health Informatics

Equivalent Units

300567 - e-Health

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This unit extends the student's 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, medico legal, epidemiology and population health together with TeleHealth/ TeleMedicine approaches, methodologies, tools and techniques.

300956.2 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

102069.2 Heritage and Planning

Credit Points 10 **Level** 7

Equivalent Units

101588 - Introduction to Urban Design

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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.

300988.2 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.

100015.7 History and Philosophy of Psychology

Credit Points 10 **Level** 3

Assumed Knowledge

Basic understanding of core concepts of personality, cognition, learning, perception, biological, social and developmental psychology and research methods is desirable

Prerequisite

101183.3 Psychology: Behavioural Science AND **101184.3** Psychology: Human Behaviour

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This unit provides an overview of the origins and historical development of psychology. It examines the major landmarks in the history of psychology, focusing on important individuals, schools of thought, and recurrent ideas and themes. Historical conceptual problems are related to areas of controversy within contemporary psychology, and an insight is provided into the philosophical underpinnings of the various new movements and major theoretical conflicts within psychology today. The unit also provides a critical appraisal of psychology's status

as a science, and explores the limits of psychological inquiry.

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 of 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.

102814.1 History of the Ancient World

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Students must have successfully completed 40 credit points in currently enrolled course

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Students explore the rise and fall of major civilizations in the ancient world. The unit surveys empires from Europe to East Asia. The unit surveys the transition from hunter gatherers to the age of agriculture and the rise of city states, and vast empires with far-flung trading networks. It also looks at the impact of ancient pandemics, technology and alcohol, mythology, religion and philosophical ideas. The unit allows students to explore how ideas of nature and spirituality defined imperial power centres and how these empires in turn drove trade and created vast cultural zones that still impact the world today. Students will read and respond to the voices of the past and forge their own interpretation of the broad outline of the ancient world.

102842.1 History of the People's Republic of China

Credit Points 10 **Level** 3

Equivalent Units

63178 - Social and Political Developments in Contemporary China

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 historical complexities during the period between the establishment of the People's Republic in 1949 and up to the present day. It will equally focus on the Mao Zedong era (1949-1976) and 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 will also be paid to the Xi Jinping era (2012-present). We will explore a wide range of social and political issues that have a bearing on

China's future as a potential world leader in the twenty-first century.

301096.2 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.

200995.2 Hospitality and Tourism in Practice

Credit Points 10 **Level** 3

Incompatible Units

200708 - Hospitality Industry

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.

200561.4 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

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.

200989.2 Hospitality Places and Spaces

Credit Points 10 **Level** 3

Equivalent Units

200148 - Planning and Design Hospitality Facilities

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.

200994.2 Hospitality Profitability and Entrepreneurship

Credit Points 10 **Level** 3

Assumed Knowledge

Introductory level of knowledge in hospitality management

Equivalent Units

200584 - Hospitality Management Operations

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.

300807.2 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.

301280.1 Human Centred Design Research 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; 301030 - Introduction to Industrial Design methods

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Professional practice across many disciplines has evolved toward a co-creative model where 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 a human-centred discovery project 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, and design innovation all of which equip students for future interactions in academic and professional contexts.

101676.4 Human Learning

Credit Points 10 **Level** 2

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Human Learning is concerned with the experimental analysis of human and animal behaviour and focuses upon associative learning, including classical conditioning, operant conditioning, and social learning approaches. Definitions, assumptions, and basic phenomena associated with the study of learning are described and evaluated in terms of their ability to account for various aspects of human behaviour and experience. The practical work highlights important concepts introduced in the lecture program and focuses upon practical techniques of use in everyday situations.

200740.5 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

'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.

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 2824 Master of Laws, 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.

301269.1 Human Systems Physiology 1

Credit Points 10 **Level** 2

Prerequisite

301254.1 Concepts in Human Physiology

Incompatible Units

300818 - Introduction to Physiology, 400868 - Human Anatomy & Physiology 1, 300361 - Introduction to Human Biology

Special Requirements - Essential Equipment

All students are required to have and wear closed-toed shoes, laboratory coat and safety glasses when working in the Physiology laboratory spaces. Students need to complete and provide evidence of an online WHS induction quiz before entering the first practical class.

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This unit builds upon the core concepts and terminology introduced in Concepts in Physiology, focussing on the function of body organ systems, exploring the knowledge of how these organ systems are regulated, integrated, and

function within the human body. The focus will be on the muscular, nervous, cardiovascular, respiratory and endocrine organ systems. Students will collect, interpret and analyse data to develop an understanding of the physiological responses of the human body.

301270.1 Human Systems Physiology 2

Credit Points 10 **Level** 2

Assumed Knowledge

Concepts in physiology topics such as physical and chemical principles of physiology, homeostasis and Human Systems Physiology 1, a unit which will cover the nervous, endocrine, cardiovascular, muscle and respiratory systems. Human Systems Physiology 2 focuses on visceral organ systems, however, knowledge developed in Human Systems Physiology 1 (particularly regarding how the nervous and endocrine systems regulate organ systems) will help students in their understanding of the content covered in Human Systems Physiology 2.

Prerequisite

301254.1 Concepts in Human Physiology

Incompatible Units

300818 - Introduction to Physiology, 400868 - Human Anatomy & Physiology 2, 300361 - Introduction to Human Biology, 400868 - Human Anatomy & Physiology 1.

Special Requirements - Essential Equipment

All students are required to have and wear closed-toed shoes, laboratory coat and safety glasses when working in the Physiology laboratory spaces. Students need to complete and provide evidence of an online WHS induction quiz before entering the first practical class.

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Human Systems Physiology 2 builds upon the core concepts and terminology introduced in Concepts in Physiology and Human Systems Physiology 1, focusing on the function of visceral organs and explore how these organ systems are regulated, integrated, and function within the human body. The focus will be on the lymphatic, immune, digestive, renal and reproductive systems. Students will collect, interpret and analyse data to develop an understanding of the physiological responses of the human body.

300570.4 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.

300901.3 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.

102577.2 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.

300765.3 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.

301397.1 Hydrogeology

Credit Points 10 **Level** 3

Prerequisite

300762.3 Fluid Mechanics

Equivalent Units

300989 - Hydrogeology

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.

300136.5 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).

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.

102256.1 Idea (Conceiving Experience)

Credit Points 10 **Level** 7

Equivalent Units

101834 - Idea

Unit Enrolment Restrictions

Students must be enrolled in the Master of Arts in Literature and Creative Writing, or the Bachelor of Research Studies/ Master of Research .

From 2017 this unit replaced by 102497 - Writing and ideas. 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.

101017.5 Illustrating Narrative

Credit Points 10 **Level** 2

Assumed Knowledge

An ability to use the computer programs 'In-Design, Photoshop, and Illustrator' in a Macintosh computer lab.

Prerequisite

100943.2 Image Design: Illustration OR **102263.1** Image Design

Equivalent Units

10005 - Illustrative Narrative 3 and 10006 - Illustrative Narrative 4

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This unit explores the conceptual, stylistic and format design of illustration for, and as, narrative. Through the design of an individual illustrated book project, students are encouraged to consider the design of different narrative forms, illustrative techniques and styles in relation to content, target audience, client, context, and genre.

102271.2 Illustrating Popular Culture

Credit Points 10 **Level** 3

Assumed Knowledge

An ability to use the computer programs "In-Design, Photoshop, and Illustrator" in a Macintosh computer lab.

Prerequisite

102263.1 Image Design

Equivalent Units

101063 - Illustration: Advertising and Editorial

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This unit explores the powerful qualities of illustration when used as a visual communication strategy in the design of popular culture: within an advertising campaign and as social commentary through editorial illustration. The potential of a range of illustrative styles, mediums and techniques, will be explored through experimentation with a variety of visual strategies that utilize lateral thinking, linked to the design of professional concepts, developmental processes and media considerations.

102263.3 Image Design

Credit Points 10 **Level** 1

Equivalent Units

100943 - Image Design: Illustration, 101884 - Introduction to Photomedia, 700196 - Image Design (WSTC)

Unit Enrolment Restrictions

Students must be enrolled in one of the following courses 1571 Bachelor of Design (Visual Communication), 1696 Bachelor of Communication, 1736 Bachelor of Communication (Dean's Scholars), 1737 Bachelor of Design - Visual Communication (Dean's Scholars), 1838 Bachelor of Creative Industries, 1839 Bachelor of Design/ Bachelor of Creative Industries, 1840 Bachelor of Communication/Bachelor of Creative Industries, 1841 Bachelor of Music/Bachelor of Creative Industries, 1842 Bachelor of Arts/Bachelor of Creative Industries, 1843 Bachelor of Graphic Design (Pathway to Teaching Secondary), 6007 Diploma in Communication/Bachelor of Communication, 6009 Diploma in Communication/Bachelor of Creative Industries, 6011 Diploma in Design/Bachelor of Design (Visual Communication), 6013 Diploma in Design/ Bachelor of Graphic Design (Pathway to Teaching Secondary), 6015 Diploma in Communication/Bachelor of Screen Media (Arts and Production).

Special Requirements - Essential Equipment

For the Photography part of the unit you will need 1 x 8 gig storage drive. For the Illustration part of the unit you will need 1 X A4 pad of cartridge paper, 1 X A4 pad of Canson Illustration paper, 2 X A4 sheets of different coloured Canson Illustration paper (120gsm) (for the paper cut-out illustration) (students should purchase this paper stock when they have created their design, so that the colour choice is appropriate to the theme), 1 x 3B Woodless Progresso pencil, 1 x A4 Jasart green cutting mat, 1 x Sterling art knife with safety cap, 1 X pack of 5 blades for Sterling art knife, 1 x pair of 6 inch all-purpose scissors, 1 x 30cm Steel Ruler, 1 x 11ml bottle of black drawing ink, 1 x 0.3mm black Copic Multiliner pen, 1 x 10mm pack of 400 Carven Magic dots, 1 x Elmer's craft Bond Glue Stick extra strength.

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Image Design introduces students to the use of signification and metaphor in the visual communication of verbal and written concepts. The process of creating and evaluating images is explored through the principles of visual organisation, and the experience of image making through photographic and illustrative methods, techniques and mediums.

401171.2 Imaging Science

Credit Points 10 **Level** 2

Prerequisite

300806.1 Forensic Science

Equivalent Units

300376 - Digital Forensic Photography 2, 300864 - Imaging Science and Photographic Evidence

Special Requirements - Essential Equipment

Forensic Science Grip Kit (basic laboratory equipment – i.e. linear scales, blue tac, scissors, markers, etc), SD Card, High Capacity USB Storage Device, Lab Coat, Enclosed Shoes

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Imaging science is a key area within the forensic sciences. This unit explores the application of imaging science and

forensic photography practices to detect, preserve, enhance and examine forensic evidence. The unit focuses on optical and digital enhancement methods that provide essential non-destructive methods for evidence preservation and analysis. The unit provides the learner with necessary theoretical concepts of imaging science that underpin the practice of forensic photographic evidence.

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, 'handlability' 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.

301165.3 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.

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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.

301165.4 Incubator 1: Innovation and Creativity for Entrepreneurship

Credit Points 10 **Level** 2

.....

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.

301206.3 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.

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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.

301168.2 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.

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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.

301168.3 Incubator 3: Product Development

Credit Points 10 **Level** 2

.....

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.

301169.2 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.

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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.

301169.3 Incubator 4: Commercial and Financial Setting of Entrepreneurship

Credit Points 10 **Level** 3

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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.

301170.2 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.

301171.2 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.

301171.3 Incubator 6: Funding and Start-up

Credit Points 10 **Level** 3

.....

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.

301172.3 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.

102805.1 Indigenous Landscapes

Credit Points 10 **Level** 1

Equivalent Units

101878 - Indigenous Landscape, 300631 - Indigenous Landscapes

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Indigenous Landscapes aims to explore 'traditional' Indigenous Australian ways of knowing landscape in contemporary, meaningful, and relevant ways. Specifically, the unit acknowledges and values pre-colonial Australian history and land-use practices. Content includes 'traditional' land management practices; cold-burning, protected area management, sustainable land use; cultural heritage and heritage landscapes, Sovereign land rights. 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 basic knowledge about the ethnic, cultural and linguistic diversity of Indonesia. Students with a background of study in the language need to obtain advice on their appropriate level of language study and where required undertake brief spoken and written entry assessments. 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.

102326.2 Indonesian 102

Credit Points 10 **Level** 1

Prerequisite

102316.1 Indonesian 101

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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 through the use of activities designed to practice and reinforce Indonesian language and grammar skills. This unit will also introduce a greater focus on the socio-cultural and linguistic diversity found in Indonesia through online powerpoint lectures and accompanying notes. 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.

102773.1 Indonesian 301

Credit Points 10 **Level** 3

Assumed Knowledge

Successful completion of Indonesian 202 or equivalent.

Equivalent Units

102320 - Indonesian 301: Indonesian for Academic Purposes

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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 Indonesian culture, language, and other historic and current issues in an academic manner. Students will develop their formal writing skills in Indonesian and will learn how to discuss academic subjects in a formal style. They will begin to develop their ability to translate Indonesian and English texts in a formal manner. They will also develop intercultural awareness by comparing and contrasting academic styles and contexts in Australia and Indonesia.

102774.1 Indonesian 302

Credit Points 10 **Level** 3

Assumed Knowledge

Successful completion of Indonesian 202 or equivalent.

Equivalent Units

102328 - Indonesian 302: Indonesian for Professional Purposes

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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 contemporary Indonesian society and current issues in an academic manner. Students will develop their formal writing skills in Indonesian and will learn how to discuss academic subjects in a formal style. They will further develop their ability to translate Indonesian and English texts in a formal manner. They will develop skills that will assist them to interpret spoken and written Indonesian texts through exploring ways of building up the specific language required to gain a deeper understanding of any particular topic.

102775.1 Indonesian 303

Credit Points 10 **Level** 3

Assumed Knowledge

Successful completion of Indonesian 202 or Indonesian 302 or Equivalent (for example HSC Indonesian with high grades), Native Background and Previous Study in Indonesian or Malay.

Equivalent Units

102329 - Indonesian 303: Indonesian for Business

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This is an advanced (Level 3) unit in the Indonesian Specialisation, which can be undertaken following on from Indonesian 202, 301, or 302 as well as by students with sufficient language skills due to Indonesian or Malay background. The unit further develops students' Indonesian academic language skills by focusing on language resources appropriate for academic purposes. Students will be exposed to a range of academic texts and related online materials to support the development of academic Indonesian skills.

102776.1 Indonesian 304

Credit Points 10 **Level** 3

Assumed Knowledge

Successful completion of Indonesian 202 OR Indonesian 301 OR Indonesian 302 OR Equivalent (for example HSC Indonesian with high grades), Native Background and Previous Study in Indonesian or Malay.

Equivalent Units

102330 - Indonesian 304: Contemporary Indonesia

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This is an advanced (Level 3) unit in the Indonesian Specialisation, which can be undertaken following on from Indonesian 202, 301, or 302 as well as by students with sufficient language skills due to Indonesian or Malay background. The unit further develops students' Indonesian academic language skills by focusing on language resources in various genres appropriate for academic purposes. Students will be exposed to a range of academic texts and related online materials to support the development of academic Indonesian skills.

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.

301299.1 Industrial Design Applied Research Project (Honours)

Credit Points 20 **Level** 5

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 (Honours).

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The Industrial Design Honours Program provides candidates with an opportunity to undertake a significant design research project and research training component that explores design issues including products, services, systems and research methods. In this unit students combine scholarly inquiry, critical thinking, design thinking, applied design research methods and exploratory prototyping informed by state of the art research via literature review, and human-centred design methods with ethical considerations. Discussion of results of preliminary concept explorations of low to medium fidelity are further refined towards a reframed and detailed design brief, research project timeline, and evolved design research methodology in preparation for a high quality research proposal and a substantial creative work.

301298.1 Industrial Design Major Project (Conclusion)

Credit Points 20 **Level** 4

Prerequisite

301295.1 Studio: Design Synthesis Capstone OR **301084.1** Design Studio 6: Ambience, Place and Behaviour

Unit Enrolment Restrictions

Must be enrolled in undergraduate course: Bachelor of Industrial Design (3730) and completed a minimum of 220 credit points.

Special Requirements - Essential Equipment

Drawing, rendering equipment, A3 visual process diary, model-making resources

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In collaboration with industry experts and community groups students will refine and complete their capstone project which was conceptualised and proposed in Industrial Design Major Project (Ideation). Students will advance their responses to complex, real-world design problems and refine their expertise in conceptualisation, problem solving, human factors, aesthetics, innovation and communication to deliver a novel product solution to stakeholders as work-ready graduates.

301297.1 Industrial Design Major Project (Ideation)

Credit Points 10 **Level** 4

Prerequisite

301295.1 Studio: Design Synthesis Capstone OR **301084.1** Design Studio 6: Ambience, Place and Behaviour

Unit Enrolment Restrictions

Must be enrolled in undergraduate course: Bachelor of Industrial Design (3730) and have completed a minimum of 220 credit points.

Special Requirements - Essential Equipment

Drawing, rendering equipment, A3 visual process diary, model-making resources

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In this capstone unit students will immerse themselves in a complex real-world design problem and apply their expertise in conceptualisation, problem solving, human factors and aesthetics to create a novel solution. User-centred design, digital futures and sustainable design practice underpin all learning activities. A multidisciplinary approach is fostered, whereby students will engage with industry experts and community groups reinforcing the role of the graduate designer as an empathetic innovator.

301300.1 Industrial Design Research Thesis (Honours)

Credit Points 20 **Level** 5

Prerequisite

301299.1 Industrial Design Applied Research Project (Honours)

Unit Enrolment Restrictions

Successful completion of 240 credit points. Students must be enrolled in Bachelor of Industrial Design (Honours).

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In this unit, students will extend their research journey using appropriate applied design research methods that explore usability, design semantics, functionality, sustainability and product considerations. Students will submit a creative project and exegesis on their research endeavour providing a critical analysis and reflection on outcomes that situate the work within relevant literature, ideas and industrial design field discourse. In addition to the specialist knowledge on the chosen research topic, students will learn a range of skills including academic writing, and project management.

700311.1 Industrial Experience (Associate Engineer) (WSTC AssocD)

Credit Points 10 **Level** 2

Assumed Knowledge

A broad background knowledge in the relevant engineering discipline (ie equivalent to that obtained after completing one and a half (1.5) years of the associate engineering program).

Unit Enrolment Restrictions

Students must be enrolled at The College in 7022 Associate Degree in Engineering. Students must have completed 60 credit points.

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Industry experience provides a significant opportunity for students to understand employer expectations in relation to working on projects and with others in a professional capacity. Students undertake six weeks full-time (37.5 hours per week) employment (or part time equivalent) to obtain relevant workplace experience in Engineering under the supervision of professional engineers in one or more companies. Students identify learning opportunities and goals with a focus on applying academic learning in practice, learning project management, work culture, professional attitude and self-awareness. Students develop critical reflective skills in reporting their progress.

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.

300724.3 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 of industry based experience as required by course and professional accreditation bodies.

300128.6 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.

300572.4 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 OR **300580.4** Programming Fundamentals AND **101922.1** Web and Time-based 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.

300573.3 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.

500046.1 Information Systems in Context (UG Cert)

Credit Points 10 **Level** 1

Equivalent Units

300573 Information Systems in Context, 700000 Information Systems in Context

Unit Enrolment Restrictions

Students need to be enrolled in course 7174 – Undergraduate Certificate in ICT

Special Requirements - Essential Equipment

Students need a computer with reliable internet connection, Microsoft Office, webcam and microphone

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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.

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.

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 (NCP) 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.

301072.4 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.

200852.3 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.

200917.2 Innovation, Enterprise and Society

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 80 credit points.

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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.

300899.2 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.

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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.

300515.5 Instrumentation and Measurement (PG)

Credit Points 10 **Level** 7

Assumed Knowledge

Assumed knowledge for 300515 Instrumentation and Measurement (PG) is: 1) Basic electronics including amplifier, circuit theory and circuit design; 2) A basic understanding of statistics. Computational skills (SPICE) and a basic understanding of circuit simulation are desirable.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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

300931.2 Integrated Science

Credit Points 10 **Level** 2

Equivalent Units

300661 - Integrated Science, 300664 - Science in Society, 700096 - Integrated Science (WSTC)

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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.

700096.4 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 2 units.

Special Requirements - Essential Equipment

Students are required to have safety glasses, laboratory coat and laboratory book.

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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.

102267.2 Interactive Design: Apps

Credit Points 10 **Level** 3

Assumed Knowledge

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. Skills in design principles: layout, colour and typography. Literacy with image manipulation software - e. g. Photoshop

Prerequisite

301074.2 Graphics 1: 2D and 3D Industrial Design Communication OR **101922.1** Web and Time-based Design

The pre-requisite unit 301704 - Graphics 1: 2D and 3D Industrial Design Communication applies to students enrolled in course 3730 Bachelor of Industrial Design only.

Equivalent Units

100789 - Interactive Design 1

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This unit focuses on design methodology for the development and delivery of interactive media applications (apps). Particular concepts addressed include conceptual integration and convergence of various media forms,

screen design, navigational hierarchy and structures, and designing engaging interactive interfaces. General principles of interface, information architecture and interaction design will be introduced, alongside principles of digital media production.

102272.3 Interactive Design: Games

Credit Points 10 **Level** 2

Assumed Knowledge

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. Skills in design principles: layout, colour and typography. Literacy with image manipulation software - e.g. Photoshop.

Equivalent Units

100949 - Interactive Design II

This unit focuses on game design from an interactive design perspective. Approaches utilising current digital technologies for advanced interactive design are explored. Students will design and produce simple games for mobile and/or desktop delivery. The focus of the unit is about the communication and experience design, rather than technical implementation. Interactive game design examples are examined from the context of shifting production languages, convergent technologies and the design professional contexts. This unit includes game development concepts, platforms, goals and genres, player elements, simple story and character development, gameplay, levels, interface, and the game development process. Students will play games, analyse them, and complete a game design with appropriate documentation.

102758.1 Interactive Electronic Media and Performance

Credit Points 10 **Level** 3

Assumed Knowledge

It is assumed that students can perform at Level 3 standard.

Prerequisite

101539.4 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 OR **102761.1** Electronic Music Production

Equivalent Units

101535 - Sound and Performance: Expanded Practice, 102556 - Expanded Music Performance

Incompatible Units

101448 - Music Performance 5: Expanded Practice, 101144 - Digital Musics 5: New Performance and Practice

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.

In this unit, students will 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 media and/or multimedia. 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.

200948.1 International Banking and Finance Law

Credit Points 10 **Level** 7

Assumed Knowledge

Students must have 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

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.

200626.3 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

Students must have 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 2824 Master of Laws, 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, 2824 Master of Laws, 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.

200907.4 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 2824 Master of Laws, 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.

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 obtain DAP approval.

'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.

200961.2 International Human Rights Law

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in courses 8083 Bachelor of Research Studies/Master of Research, 8084/8085 Master

of Research, 2810 Master of Laws (International Governance), 2824 Master of Laws or 2826 Juris Doctor.

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 2824 Master of Laws, 2784 or 2810 Master of Laws (International Governance), 8083 Bachelor of Research Studies, 8084 Master of Research - HC or 8085 Master of Research - LC.

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

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.

200963.2 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 or have a broad understanding of both Australian and International Law. It is recommended that students without a legal qualification should review supplementary materials provided within the

Learning Guide providing a summary of the Australian and International Law frameworks.

Incompatible Units

200652 - Space Law – Commercial Aspects

Unit Enrolment Restrictions

Students must be enrolled in 2824 Master of Laws, 2784 or 2810 Master of Laws (International Governance), 3735 Master of Data Science, 3699 Master of Information and Communications Technology, 3698 Master of Information and Communications Technology (Advanced) or Masters of Research courses 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.

301175.2 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.

301275.1 Internet of Things for the Environment

Credit Points 10 **Level** 2

Special Requirements - Essential Equipment

Outdoor attire / Lab coats, enclosed footwear for indoor labs

Internet of things (IoT) is about connecting platforms to internet for monitoring, managing and controlling them. Simply put, IoT can make 'dumb' things 'smart' by connecting them to the Internet and sensors. This results in improved efficiency of data collection, accuracy and decision making. The applications of IoT is rapidly expanding in environmental science and management, and the topics in this unit will cover aspects of IoT for water, air and noise pollution monitoring, extreme weather warning, river water flow monitoring, water quality management, irrigation management, flora and fauna monitoring, broadacre agriculture, protected cropping, biodiversity, ecosystems health, wildlife and more.

300130.5 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

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.

102212.3 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.

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.

800176.3 Internship and Community Engagement (PG)

Credit Points 10 **Level** 7

Prerequisite

Students enrolled in 8083 - B Research Studies/M Res must have successfully completed 800166 Research Design 1: Theories of Enquiry or 800218 Researcher Development 1: Reading, Writing, and the Business of Research before enrolling in this unit. Students enrolled in 8111 - Graduate Certificate in Researcher Engagement, Development and Impact must have successfully completed 800197 Researcher Knowledge and Development and 800198 Career and Personal Development Milestone: Confirmation of Candidature and 800199 Knowledge Translation Milestone: Review of Progress and 800209 Researcher Engagement and Impact Milestone: Review of Progress and must have successfully completed 800211 Applied Innovation and Entrepreneurship or 800212 Research and Public Policy or 800210 So, You Want to Be an Academic before enrolling in this unit.

Unit Enrolment Restrictions

Students must be enrolled in 8083 Bachelor of Research Studies/Master of Research, 8084/8085 Master of Research or 8111 Graduate Certificate in Researcher Engagement, Development and Impact. Internship or work placement must be agreed between student and unit coordinator prior to student enrolling in the unit.

Special Requirements - Essential Equipment

Any Internship/work placement site requirements. For example safety gear.

The aim of this unit is to provide Higher Degree Research (HDR) candidates with a research development and training opportunity through a cross disciplinary experiential learning environment. Students will apply their research and technical skills, and develop their professional identity

through exposure to workplaces, research institutes, community settings or research processes related to their chosen field of research. The placement will be chosen by the student in consultation with the unit coordinator and will be undertaken either as an individual or part of a project team. If students enrolled in B Research Studies/M Research wish to take this unit before having completed the prerequisite unit 800166 Research Design 1: Theories of Enquiry or 800218 Researcher Development 1: Reading, Writing, and the Business of Research, contact the unit coordinator to obtain permission to complete a rule waiver (this will be on a case by case basis only).

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.

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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.

900107.2 Introduction to Academic Communication 1 (WSTC)

Credit Points 10 **Level** Z

Equivalent Units

900074 - Academic English 1 (UWSC); 900102 - English for Tertiary Study 1 (UWSC); 700209 - Introduction to Academic Communication 1 (UWSCFS); 700207 - English for Tertiary Study 1 (UWSCFS); 700198 - Academic Communication 1 (UWSCFS); 700280 - Essential Skills for Academic Success (WSTC Prep); 700275 - Communication Skills for Construction Management (WSTC Prep); 700283 - Professional Communication Skills for Engineering (WSTC Prep); 700276 - Academic and Professional Communication (WSTC Prep)

Unit Enrolment Restrictions

Students must be enrolled at The College in a Foundation Studies course

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This unit is designed to introduce students to academic culture as a culture of critical debate and equip students with the academic literacy skills necessary to perform successfully in this culture. In particular, the unit aims to help students access the conventions of academic English by focussing on attitudes to knowledge, and the ways in

which ideas are structured and presented in academic texts and speech. The unit assists students to comprehend academic texts, identify key ideas and concepts, and identify and use the rhetorical moves used in academic texts. 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 reference information.

900108.2 Introduction to Academic Communication 2 (WSTC)

Credit Points 10 **Level** Z

Prerequisite

900107.2 Introduction to Academic Communication 1 (WSTC)

Equivalent Units

900075 - Academic English 2 (UWSC); 900103 - English for Tertiary Study 2 (UWSC); 700199 - Academic Communication 2 (UWSCFS); 700208 - English for Tertiary Study 2 (UWSCFS); 700210 - Introduction to Academic English 2 (UWSCFS); 700056 - Academic English (WSTC Prep); 900021 Academic English (WSTC); 700040 - Principles of Professional Communication (WSTC)

Unit Enrolment Restrictions

Students must be enrolled at The College in a Foundation Studies course.

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This unit is designed to expand upon and extend the academic literacy skills acquired in Introduction to Academic Communication 1. The unit will assist students to critically read and analyse a variety of texts, and to develop their research and writing skills to produce complex texts. There is a particular focus in this unit on critique and analysis in the process of understanding and producing academic texts.

401077.2 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.

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Most professions in the health sciences need to read and interpret statistics relating to individual health status, interpret health risks in communities, and engage in the evaluation of interventions, or impact of health policies or programs. Many public health practitioners are actively involved in surveillance, quantitative research and/or evaluation. This unit provides students with the fundamental skills they need to analyse and interpret results from quantitative data collections. Content includes descriptive statistics, undertaking comparisons between groups, quantifying associations between variables, and statistical power. The unit is highly applied with the main focus being on interpretation and appraisal of statistical results and conducting analyses using statistical software.

700317.1 Introduction to Building Calculations (WSTC Prep)

Credit Points 10 **Level** Z

Unit Enrolment Restrictions

Students must be enrolled at The College in 7136 - Diploma in Building Design Extended or 7165 - Diploma in Construction Technology Extended

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This unit is designed to assist students to become competent in the field of basic and introductory senior mathematics. It introduces and reinforces mathematical skills in the areas of basic arithmetic, algebra and geometry. Emphasis is placed on developing key competencies in building calculations.

401173.2 Introduction to Clinical Epidemiology

Credit Points 10 **Level** 7

Assumed Knowledge

A background in health care is desirable

Equivalent Units

401076 - Introduction to Epidemiology

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit aims to impart the principles of population based (epidemiologic) evidence to the understanding of variations in the outcome of illness and the reasons thereof (Clinical Epidemiology) thereby providing the framework for finding the best answers to "real world" questions about clinical practice and health care. Individuals taking this course (who usually have a health care background) acquire the basic skills required to understand the fundamental questions about the effectiveness of clinical therapies, usefulness of screening and diagnostic tools, prognosis and disease causation and gain the skills required of effective Evidence-Based Medicine practitioners.

301203.2 Introduction to Cloud Computing

Credit Points 10 **Level** 3

Prerequisite

300565.2 Computer Networking OR **300946.1** Computer Networking (Advanced)

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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.

301071.3 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.

301033.2 Introduction to Data Science

Credit Points 10 **Level** 2

Assumed Knowledge

Computer Programming.

Prerequisite

For students NOT enrolled in 3769 Bachelor of Data Science or 3770 Bachelor of Applied Data Science - 300700 Statistical Decision Making or 200263 Biometry or 200032 Statistics for Business

Corequisite

For students enrolled in 3769 Bachelor of Data Science or 3770 Bachelor of Applied 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.

200052.7 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, 700007 - Statistics for Business (WSTC)

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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.

700114.3 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.

700149.3 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.

700148.3 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 2 units.

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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.

301407.1 Introduction to Environmental Science

Credit Points 10 **Level** 1

Special Requirements - Essential Equipment

Suitable clothing and footwear for field trip activity.

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Students learn how biology, chemistry and the physical sciences interact to regulate environmental processes in natural and built environments. They will evaluate concepts of sustainability and resilience and apply these perspectives to understand how human actions can alter the natural world. Students will use interdisciplinary approaches, including field studies, to investigate environmental processes and evaluate specific environmental challenges. Local and global environmental issues, sustainability, resilience and stewardship will be explored across diverse social and ecological contexts.

401076.2 Introduction to Epidemiology

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

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.

300566.3 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.

700258.2 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 2 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.

200591.2 Introduction to International Business

Credit Points 10 **Level** 1

Equivalent Units

61128 - International Business and Asian Environment

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 - Introduction to International Relations (WSTC)

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.

101907.1 Introduction to Literary Studies

Credit Points 10 **Level** 1

Equivalent Units

100862 - English, Text and Writing, 700288 - Introduction to Literary Studies (WSTC)

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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.

101918.1 Introduction to Philosophy

Credit Points 10 **Level** 1

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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.

300733.3 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

700115.3 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.

900083.3 Introduction to the Australian Legal System (WSTC)

Credit Points 10 **Level** Z

Equivalent Units

700216 - Introduction to the Australian Legal System (WSTC Prep) 900041 - Introduction to the Australian Legal System – Fast Track (UWSC)

Unit Enrolment Restrictions

Students must be enrolled at The College.

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

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.

900114.1 Introductory Business Mathematics (WSTC)

Credit Points 10 **Level** Z

Assumed Knowledge

Mathematics year 10 equivalent

Equivalent Units

900085 - Mathematics 1

Unit Enrolment Restrictions

Students must be enrolled in a Foundation course at The College.

This unit consists of two modules. The first module has been designed to provide a revision of basic mathematical concepts and methods that apply to business situations. They include basic mathematical operations, percentages, equations, index numbers, logarithms, direct and inverse variation, and graphs. The second module has been designed to provide students with the necessary skills for making practical financial decisions. The concepts taught include simple interest, compound interest, annuities and their applications as they apply in a business environment.

300808.3 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

Unit Enrolment Restrictions

NOTE: Only External students can enrol in a composite offering for this unit.

Special Requirements - Essential Equipment

Prescribed safety goggles, white laboratory coat, A4 laboratory book or equivalent A4 ruled note book.

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.

700155.3 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 Year2 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).

900084.2 Introductory Programming (WSTC)

Credit Points 10 **Level** Z

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301256.1 Invertebrate Zoology

Credit Points 10 **Level** 2

Assumed Knowledge

A basic understanding of core concepts of biology and/or zoology is desirable.

Prerequisite

300802.2 Biodiversity

Equivalent Units

401170 Forensic Biology 300979 Principles of Zoology

Incompatible Units

300918 Invertebrate Biology

Special Requirements - Essential Equipment

Outdoor attire / Lab coats, enclosed footwear for indoor labs

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More than 99% of animals are invertebrates and due to their key role in all ecosystems, renowned biologist E. O. Wilson famously described them 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 introduces invertebrate diversity in the context of their ecological and economic importance. It also develops skills necessary to classify and distinguish between the major invertebrate taxa. This unit includes fundamental hands-on laboratory and field studies skills for students with broad career pathways in science (e.g. animal, environmental, forensic and medical sciences) as well as agriculture, environmental management, and education.

100919.3 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

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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.

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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.

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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.

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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.

102823.1 Islam: Past, Present and Future

Credit Points 10 **Level** 1

Equivalent Units

101462 - Understanding Islam and Muslim Societies;
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, and with issues regarding Islam in the Western context. The unit will aid students in developing cross-cultural awareness and interpersonal communication skills.

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.

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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.

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.

100086.3 Japanese 102

Credit Points 10 **Level** 1

Prerequisite

100085.2 Japanese 101

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This is a post beginner level unit in Japanese built on the knowledge and skills developed in Japanese 101 and aims to further develop listening, speaking, reading and writing skills in elementary Japanese. Students who believe they have sufficient background in Japanese to do 102 without having done 101 should apply by e-form for a Rule Waiver, explaining their situation, and have their language level evaluated. 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 to 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 to 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 to enrol in Japanese 204 at the same time.

102804.1 Japanese 204: Speaking and Listening

Credit Points 10 **Level** 2

Assumed Knowledge

Japanese 201 and 202 or equivalent knowledge.

Equivalent Units

101707 - Language & Communication Skills 2B: Japanese, 102031 - Japanese 204

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 to 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.

900109.1 Key Ideas in Arts and Social Sciences (WSTC)

Credit Points 10 **Level** 2

Equivalent Units

700191 - History of Western Thought (UWSCFS); 700246 - Key Ideas in Arts and Social Sciences (UWSCFS)

Unit Enrolment Restrictions

Students must be enrolled at The College in a Foundation Studies course

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This unit explores some of the most influential ideas in the humanities and social sciences, including democracy, imperialism, romantic love and secularisation. The unit traces the origins of these ideas and their manifestation in the world today. The unit will equip students with the ability to identify and evaluate some of the central ideas underpinning public discussion on a range of political and cultural issues today. In addition, it will provide students with a solid foundation of cultural and historical knowledge which is assumed knowledge in many University level units.

700244.2 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.

300883.2 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).

300138.4 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.

301273.1 Land Degradation and Contamination

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.

Unit Enrolment Restrictions

Successful completion of 20 credit points at Level 2.

Special Requirements - Essential Equipment

Safety glasses and laboratory coat, laboratory book, enclosed footwear

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This unit will examine current interdisciplinary topics on land degradation and contamination in both urban, peri-urban and rural environments. The effects of the various human induced land degradation and contamination processes and pollutants in terrestrial environments will be explored and how impacts can be ameliorated and managed. The focus is on both the science of environmental pollutants and on the remediation strategies currently available. Topics include; basic concepts of soils, study of the processes, common soil pollutants, persistent organic contaminants and pesticides, acidification of soils, quantitative risk assessment, land reclamation, and landfill

sites. Field trips to degraded and contaminated sites will be undertaken.

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.

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.

Unit Enrolment Restrictions

Students enrolled in 2502 Bachelor of Laws (Non graduate entry) are required to seek permission from their Course Advisor prior to enrolling in this unit.

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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 joint venture, partnership, trusts and sole traders. This unit will provide students with an appreciation of partnership, and companies and a practical operation of a scheme of corporate regulation in the Australian federal system.

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.

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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

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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.

400777.5 Leadership for Quality and Safety in Health Care

Credit Points 10 **Level** 7

Equivalent Units

400842 - Quality and Safety in Health Care

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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Increasingly clinical leaders, practitioners and health service managers are being held accountable for improving the quality and safety of patient care and for developing a culture of quality improvement within their teams. In this unit students learn about quality, patient safety and governance frameworks and strategies that they can employ within healthcare to improve system performance, patient safety and patient outcomes. The main approaches used to address quality of care and patient safety are examined and their applications critiqued. Students will explore leadership issues for developing systematic, coherent quality improvement frameworks and quality initiatives that can be applied within their own sphere of practice.

200855.3 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; 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 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.

102158.2 Learning and Teaching in Challenging Contexts

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course, with the exception of those students enrolled in 8083 Bachelor of Research Studies.

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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. Students will undertake a critical analysis of policies and practices that impact and respond to challenging contexts. The unit is structured around the investigation of dilemmas and specific provocations, and explores engaging pedagogies for education.

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.

200978.4 Legal Analysis and Critique

Credit Points 10 **Level** 1

Corequisite

200977.3 Fundamentals of Australian Law OR **200006.2** Introduction to 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.

200027.4 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.

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.

301070.3 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.

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.

401075.2 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.

301032.2 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.

200116.6 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.

301123.2 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.

300824.2 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.

500051.1 Management of Aquatic Environments (UG Cert)

Credit Points 10 **Level** 1

Equivalent Units

300633 Management of Aquatic Environments, 300824 Management of Aquatic Environments, 700297 Management of Aquatic Environments

Unit Enrolment Restrictions

Students must be enrolled in: 7175 – Undergraduate Certificate of Environmental Sustainability

Special Requirements - Essential Equipment

Students need a computer with reliable internet connection, Microsoft Office, webcam and microphone

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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.

700307.1 Management Practices for Engineer Associates (WSTC AssocD)

Credit Points 10 **Level** 2

Equivalent Units

700109 Engineering Management for Engineer Associates (WSTC AssocD) 700118 Professional Practice for Engineer Associates (WSTC AssocD)

Unit Enrolment Restrictions

Students must be enrolled at The College in 7022 Associate Degree in Engineering

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This unit will enable students to support the achievement of organisational goals. The unit's major focus is project management, culminating in a practical project which gives students the opportunity to work as part of a team to apply key project management skills and knowledge. It also introduces some of the management practices engineers need to understand and master in order to work effectively in the field. This includes effective communication, especially when working in a team, work health and safety, and an ability to plan, develop and build a career as an Engineer Associate.

200376.4 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.

101633.3 Managing Cities: History and Theory

Credit Points 10 **Level** 7

Equivalent Units

101310 - Metropolitan Structures: Cities in Transformation

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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.

200864.2 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.

200865.2 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.

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 (WSU Online) may enrol in the WSU 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.

301106.2 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.

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.

200022.4 Mathematical Modelling

Credit Points 10 **Level** 3

Assumed Knowledge

Matrix algebra and how to find eigenvalues and eigenvectors.

Prerequisite

200030.2 Differential Equations

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.

301375.1 Mathematical Programming

Credit Points 10 **Level** 2

Equivalent Units

301031 Computer Algebra

This unit will introduce the programming language Python, through which students will explore and investigate practical mathematical problems. Python is one of the most powerful versatile programming languages, and it is increasingly used by engineers and scientists as well as banks and financial institutions to tackle their computational problems. The unit promotes an experimental side of mathematics and will employ Python-based computational tools to gain insight and intuition into problems, to discover mathematical patterns and relationships, and to use visualisation techniques to expose mathematical structures.

301177.2 Mathematical Proof and Reasoning

Credit Points 10 **Level** 7

Assumed Knowledge

Undergraduate level of knowledge in mathematics or statistics

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.

300672.3 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.

300673.3 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

.....
 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.

900086.3 Mathematics 2 (WSTC)

Credit Points 10 Level Z

Assumed Knowledge

Year 10 Mathematics or equivalent

Equivalent Units

700146 - Mathematics 2 (WSTC Prep)

Unit Enrolment Restrictions

Students must be enrolled at The College.

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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.

900087.3 Mathematics 3 (WSTC)

Credit Points 10 Level Z

200237.5 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.

700101.3 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.

700019.8 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 pre-requisite 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 2 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.

200238.3 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.

700102.3 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.

300743.4 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.

700103.3 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.

700100.5 Mathematics for Engineers Preliminary (WSTC)

Credit Points 10 **Level** 1

Prerequisite

Students enrolled in 6033 Diploma in Engineering/Bachelor of Engineering Studies, 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 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 2 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.

900088.2 Mathematics for Health Science (WSTC)

Credit Points 10 **Level** Z

Assumed Knowledge

Year 10 Mathematics or equivalent

Equivalent Units

900070 - Mathematics for Nursing (WSTC)

Unit Enrolment Restrictions

Only students enrolled at The College in Foundation Studies courses can enrol in this unit.

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This unit is designed to prepare students for further study at university level in the areas of Health Science and, in particular, Nursing. Undergraduate study in Health Science places a particular emphasis on mathematical skills in the workplace and this unit provides a basis for developing those skills. The unit places equal emphasis on both theoretical and practical application of mathematical techniques as would apply in practice in the Health environment.

301379.1 Mathematics Project

Credit Points 10 **Level** 3

Prerequisite

Students not enrolled in 3778 must have successfully completed 30 credit points of Level 2 mathematics/statistics units from the following list 200027 Linear Algebra 200028 Advanced Calculus 200030 Differential Equations 301032 Making Sense of Data 301033 Introduction to Data Science 301375 Mathematical Programming Students not enrolled in 3778 must also have successfully completed 30 credit points of Level 3 mathematics/statistics units from the following list 200022 Mathematical Modelling 200023 Analysis 200193 Abstract Algebra 300958 Social Web Analytics 301034 Predictive Modelling 301035 Environmental Informatics 301376 Groups and Symmetry 301377 Fields and Equations 301378 Combinatorics 301380 Financial Mathematics

Equivalent Units

200045 Quantitative Project

Unit Enrolment Restrictions

Students enrolled in course 3778 Bachelor of Mathematics must have completed 200 credit points before enrolling into the unit.

In this unit, students can deepen or apply knowledge gained during their course and practise verbal 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 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, as well as a literature review or a list of references as appropriate. Students will also give a talk on their project.

301018.2 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

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.

700116.3 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.

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.

300600.4 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.

101926.2 Media Cultures and Industries

Credit Points 10 **Level** 1

Equivalent Units

63276 - Approaches to Communication, 101040 - Approaches to Communication, 700180 - Media Cultures and Industries (WSTC)

This unit introduces students to the concept of media in terms of how it has changed, how it works and its impact on our lives and society. It builds the necessary foundation for further theoretical and practical study and understanding of the media in future years. Its approach brings practice-based research together with experiential learning and theoretical reflection. At the conclusion of this unit students will be able to demonstrate a fundamental critical understanding of the media. In addition, students will have developed their digital literacy through the creation of digital creative works.

101928.3 Media Law and Ethics

Credit Points 10 **Level** 2

Equivalent Units

101243 - Communication Law and Ethics

Unit Enrolment Restrictions

Successful completion of 60 credit points at Level 1 in currently enrolled course.

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Media Law and Ethics focuses on the media and communication industries of public relations, journalism, advertising and media production, and examines issues including: the legal framework in which these creative communication industries operate, the role of ethics in decision-making in these industries, and the impact of regulation. It considers these issues in relation to their historical and philosophical contexts, and in terms of the contemporary context of digital networked media. This unit provides a foundation for professional practice in the Communication and Creative Industries key programs.

101931.1 Media Memory

Credit Points 10 **Level** 3

Assumed Knowledge

Knowledge gained from completion of Bachelor of Communication Years 2 and 3 key program or major units.

Equivalent Units

101053 - Researching Media Audiences

Unit Enrolment Restrictions

Successful completion of 80 credit points at Level 1

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Media memory is now a critical field of study in journalism, advertising, visual communication and media. The media builds local, national and transnational identities through the representation of the past. Media industries such as advertising rely upon collective memories to design campaigns in order to reach particular audiences. Journalists increasingly 'assemble' stories from digital archives, recombining similar or related events from the past to build stories and features of the present. Individuals increasingly contribute to news events through their own 'witnessing' of events, capturing and sharing material using mobile and social media. This unit addresses these processes by providing a brief history and overview of approaches to thinking about media and memory, in the context of the significance of media convergence and digital memory within contemporary media ecologies. The unit provides students with a series of case studies that approach the memory of particular events, drawing on examples from advertising, public relations, visual communication, animation, film, broadcasting and journalism. Students develop a media research project that engages with the material presented in the unit.

300826.2 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

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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.

102626.1 Medieval and Early Modern Literature

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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While films and books related to the fantastic and supernatural (like Game of Thrones, Lord of the Rings and Harry Potter) are extremely popular, it is sometimes forgotten that these works draw heavily on historical literary forms and works that engaged directly with the cultures from which they emerged. This unit will look at examples of literature from the Medieval and Early Modern periods (between 1000 and 1800) and the social and cultural worlds they both represented and supported. It will ask how these works still inform how we understand and represent things today.

301401.1 Mentored Practice in Design Innovation

Credit Points 10 **Level** 3

Equivalent Units

10915 Industrial Experience, 300775 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) and have successfully completed 160 credit points.

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Mentored Practice offers a program of professionally oriented activities that refine planning for graduate destinations in the design, innovation and manufacturing industries and in particular new product development. Students will focus on career and practical industry attributes, and attend design industry seminars that directly influence their major project, honours thesis, or industrial design capstone project from a strategic and professional practice perspective. This unit assists students on preparing a strategic early career plan which includes a personal portfolio of works with tips on how to commercialise their current academic project, observations and analysis of current design industry practice, and a self-directed practical placement for up to 70 hours.

300848.2 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.

300833.2 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.

300833.3 Microbiology 1

Credit Points 10 **Level** 2

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

.....

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.

300896.2 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 examining the activity of antimicrobials and biotechnology such as microbial fuel cells.

300960.5 Mobile Applications Development

Credit Points 10 **Level** 3

Prerequisite

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, 6036 Diploma in Information and Communications Technology/Bachelor of Information Systems or 6040 Diploma in Information and Communications Technology/Bachelor of Information Systems - 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 3506 Bachelor of Computer Science - 300147 Object Oriented Programming OR 300582 Technologies for Web Applications

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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.

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.

301158.2 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.

301159.2 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.

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).

300817.2 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

301251.1 Molecular Biology of the Cell

Credit Points 10 **Level** 3

Prerequisite

300936.1 Functional Proteins and Genes OR **300845.1** Genetics

Incompatible Units

300549 Human Molecular Biology 300817 Molecular Biology

Special Requirements - Essential Equipment

Laboratory Safety Glasses, Laboratory coat, closed shoes, laboratory note book

.....

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 explain fundamental concepts and methods in the study of DNA and RNA, extending to the application of molecular biology in more 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. Students may be required to travel to a different campus to undertake this unit.

301405.1 Molecular Biotechnology

Credit Points 10 **Level** 3

Prerequisite

300845.2 Genetics OR **301251.1** Molecular Biology of the Cell

Equivalent Units

300850 - Advanced Cell Biology

Special Requirements - Essential Equipment

Access to a computer with an internet connection. Safety glasses, Lab coat, enclosed footwear and electronic Laboratory Notebook

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Molecular techniques in cell biology are rapidly developing and offer new solutions to disease mitigation, as well as sustainable solutions to environmental and industrial imperatives. The fundamental cellular processes along with stem cell development, transformation, transfection, cell engineering and re-programming are some of the advanced applications covered in this unit. Students will conduct guided projects investigating the action of hormones, growth factors, morphogens and bio-actives; their receptors and signalling pathways and the cellular responses they trigger. Molecular Biotechnology covers modern techniques in cell screening, cell culture, advanced

characterization and experimental approaches enabling dynamic understanding of live microbial, animal and plant cells.

300927.3 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.

301394.1 Mortuary Practice

Credit Points 10 **Level** 3

Prerequisite

[300935.3](#) Evidence and Crime Scene Management AND [300898.4](#) Appendicular Skeleton AND [301126.2](#) Concepts in Human Anatomy AND [300806.2](#) Forensic Science

Corequisite

[300894.3](#) Anatomy of the Thorax and Abdomen

Unit Enrolment Restrictions

Students must be enrolled in 3733 Bachelor of Medical Science (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.

102273.3 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 [102828.1](#) Animation and Visual Effects OR [300582.3](#) Technologies for Web Applications

.....

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.

101678.5 Motivation and Emotion

Credit Points 10 **Level** 3

Assumed Knowledge

Basic understanding of core concepts of personality, learning theory, biological, social and developmental psychology.

Prerequisite

[101183.3](#) Psychology: Behavioural Science AND [101184.3](#) Psychology: Human Behaviour

These pre-requisites will not apply to students enrolled in course 1630 Graduate Diploma in Psychological Studies. Enrolment in this award require graduate status; hence the students have demonstrated proficiency in tertiary studies. Each applicant in this award is assessed individually and provided with an individual study sequence by the Course Advisor.

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The study of motivation and emotion attempts to understand the reasons behind people's behaviours, thoughts, and feelings. In addition to being interesting in its own right, concepts of motivation and emotion are central to many other aspects of psychology. This unit therefore examines core research and theory in motivation and emotion, but also explores the topic's relationship with other areas of psychology, (such as learning theory, social psychology, personality, and cognition) and its relevance to

central debates discussed throughout the discipline. Emphasis is placed upon the use of research to inform theory, and the application of theory in guiding psychological practice.

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.

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This unit presents an overview of the basic concepts and applications of electronic and digital music production technology in current music and media arts practice. Students will learn the fundamentals of musical acoustics, stereo recording and mixing techniques, and they will be introduced to MIDI systems and sequencing. Technical concepts are contextualised within a survey of current music production practice.

102770.1 Music Theory and Songwriting

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, 102565 - Songwriting and Music 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.

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This unit studies harmony and musical techniques used in a variety of styles, and applies these in the development of song-writing and composition skills. Keyboard and aural classes include practical musicianship training related to the lectures.

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.

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This unit introduces basic theoretical knowledge such as scales, intervals, chords and progressions. It provides musicianship training in aural, reading and keyboard skills and an introduction to Finale software. Students will learn to analyse harmony and to compose melodies and simple chordal accompaniments in song and theme and variation

forms. Keyboard and 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.

102181.3 Nation, Power and Difference

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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Unit 102181 - Nation, Power and difference is no longer available in Spring semester, 2020. Students may enrol in the unit 102341 - Debates in Global History instead. 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.

300932.2 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.

301105.2 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.

200613.3 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.

300143.5 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.

300575.3 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).

300754.4 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.

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.

200849.2 New Venture Finance

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Business course or be enrolled in the Master of Information and Communications Technology (Advanced), Master of Information and Communications Technology or Master of Research.

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New Venture Finance introduces students to essential theories, frameworks, principles and requirements for understanding and seeking funding for new ventures, with a focus on investor philosophy. A dynamic approach to seeking initial and subsequent funding for developing innovations and entrepreneurship is emphasised in this unit, recognizing that most new ventures are not fully funded as they launch. The unit also explores approaches related to new ventures at the stage at which they are maturing into defined businesses. Students will be introduced to commercialisation and strategies for the development of business plans designed to seek funding and support.

301227.1 Non-Residential Building

Credit Points 10 **Level** 1

Equivalent Units

BG103A Building 2 700071 Building 2 (WSTC) 300707 Building 2

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The aim of this unit is to provide students with an introduction to the design, classification, applicable Australian Standards, structural systems, construction techniques, materials handling systems, building services, fit-out and finishes for larger scale buildings. The unit focusses on non-residential building projects such as shopping centres, factories, warehouses, office buildings and associated facilities.

700305.1 Non-Residential Building (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

BG103A - Building 2; 700071 - Building 2 (WSTC); 300707 - Building 2; 301227 - Non-Residential Building

Unit Enrolment Restrictions

Students must be enrolled at The College. Students in Extended Diploma courses must pass 40 CPs of preparatory units in order to enrol in this unit. Students in Integrated Diploma courses must pass or be enrolled in the preparatory units in order to enrol in this unit.

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This unit provides students with an introduction to the design, classification, applicable Australian Standards, structural systems, construction techniques, materials handling systems, building services, fit-out and finishes for larger scale buildings. The unit focusses on non-residential building projects such as shopping centres, factories, warehouses, office buildings and associated facilities.

300933.2 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

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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.

300144.6 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.

300888.3 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.

700039.4 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, 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 2 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.

300919.2 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.

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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.

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.

300698.5 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.

300943.2 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.

300876.2 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.

900089.2 Organisation for Tertiary Study (WSTC)

Credit Points 5 **Level** Z

Equivalent Units

900054 - Living Skills (UWSC)

Unit Enrolment Restrictions

Only students enrolled at The College in Foundation Studies courses can enrol in this unit.

This unit aims to familiarise students with some of the concepts and issues surrounding healthy living, particularly for young people in an environment far from parental support. It introduces students to academic skills and the expectations of learners in a tertiary environment while further developing their language skills. By the end of this unit, the goal is for students to have a better knowledge and understanding of how to improve their health, develop organisational skills and learn to manage their time. The unit also aims to develop their understanding of the effect of drug use on health and lifestyle. There will be a range of teaching and learning strategies used in this unit including working in groups. The aims of this unit are to develop an understanding of the concept of health and wellbeing; develop and maintain organisational skills for various areas of life; create a mindset and learn skills to manage time well.

200585.4 Organisational Behaviour

Credit Points 10 **Level** 1

Equivalent Units

MG204A - Organisational Behaviour, 700031 - Organisational Behaviour (UWSC)

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.

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 environments.

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

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.

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.

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.

301260.1 Pathological Basis of Human Disease

Credit Points 10 **Level** 3

Assumed Knowledge

A basic understanding of human anatomy and a solid understanding of systems physiology.

Prerequisite

400138.3 Pathophysiology 1 OR **400267.3** Pathophysiology 2 OR **301270.1** Human Systems Physiology 2

Incompatible Units

300889 Pathological Basis of Disease

Special Requirements - Essential Equipment

Laboratory coat and enclosed footwear for laboratory practicals.

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 builds upon the students' fundamental knowledge of physiological processes and knowledge of normal human tissue and organ histology, and examines histopathological changes evident in disease states. Students may be required to travel to another campus to undertake this unit.

300984.2 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.

700239.2 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.

300150.4 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.

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

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'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.

101680.5 Perception

Credit Points 10 **Level** 2

Prerequisite

101183.3 Psychology: Behavioural Science

This pre-requisite does not apply to students enrolled in 1630 Graduate Diploma of Psychological Studies.

Equivalent Units

100022 - Biological Psychology and Perceptual Processes

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This unit examines the fundamental principles underlying human perception and expands upon the sensation and perception content introduced in the foundational psychology units. After reviewing the biological basis of sensing and perceiving, we will explore the way this relatively raw information is processed and organised into the complex perceptions of the visual, auditory, olfactory, gustatory and somatosensory systems, which constitute the fundamental basis of our experience of the world. The unit will also examine the history of perceptual theories and the use of psychophysical methods and experimental approaches to the study of perceptual processes

300196.4 Personal Communication Systems

Credit Points 10 **Level** 7

Assumed Knowledge

Communications Systems. Digital Communications.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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

101679.4 Personality

Credit Points 10 **Level** 3

Assumed Knowledge

Basic understanding of core concepts of personality, social and developmental psychology

Prerequisite

101184.3 Psychology: Human Behaviour

Equivalent Units

100018 - Personality, Motivation, and Emotion.

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Personality is the study of the mental and behavioural factors on which individual human beings vary. In other words, the study of personality is the attempt to understand why a given individual is the way he/she is. This unit involves an examination of the major personality theories, applications to individual differences, and contemporary research. Emphasis is placed on a critical understanding of personality research and its implications for the practice of psychology.

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.

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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.

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.

300920.2 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.

300884.3 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) OR **301254.1** Concepts in Human Physiology

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.

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.

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.

101965.2 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.

100941.5 Photomedia: Fashion and Identity

Credit Points 10 **Level** 3

Prerequisite

102268.1 Photomedia: Photographic Practice

Equivalent Units

100780 - Fashion, Style and Identity, 10958 - Photomedia 2: Fabrication

Unit Enrolment Restrictions

Students must be enrolled in course 1571 Bachelor of Design (Visual Communication), 1737 Bachelor of Design - Visual Communication (Dean's Scholars) or 1843 Bachelor of Graphic Design (Pathway to Teaching Secondary). Students from other degrees must be enrolled in the Graphic Design major or sub-major in order to enrol into this unit. Specialist photography facilities with limited space, equipment and limited specialist technical support preclude students who have not completed the pre-requisite units from taking this unit as an elective.

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This unit explores issues of identity through photographic practice as used in Fashion Photography. Fashion is a universal form of self-expression, making it the communication strategy most employed to express identity based on material and non-material cultures. The role of photography in the creation of iconic and culturally referential images in both commercial and editorial work will be researched, analysed and interpreted in order to place the student's work in context. It provides students with capacity building through an advanced experience with studio lighting, digital effects for fashion based image making and experience with location and studio photography and of professional photography as it is used in fashion publications.

102268.2 Photomedia: Photographic Practice

Credit Points 10 **Level** 2

Prerequisite

101884.1 Introduction to Photomedia OR **102263.1** Image Design

Equivalent Units

101012 - Photomedia, 100777 - Designing the Image, 100793 - Photo Documentary, 10879 - Introduction to Photomedia

Unit Enrolment Restrictions

Students must be enrolled in 1571 Bachelor of Design (Visual Communication) or 1737 Bachelor of Design - Visual Communication (Dean's Scholars). Specialist photography facilities with limited space, equipment and limited specialist technical support preclude other students from taking this unit as an elective.

This unit introduces and examines the multifaceted nature of photographic practice. Students will be introduced to current methods of photographic image production and design for the purpose of Visual Communication. It explores the relationship between photographic technique, genre and the reception of photographic imagery. Students will be introduced to photographic studio practice as the means of controlling image reception, through the intrinsic principles of the photographic medium, including the control of light, exposure in a studio situation and digital post production.

300849.3 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.

300828.2 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, 700035 Physics 1 (WSTC)

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).

Physics is the study of the fundamental nature of matter, energy, space-time, and motion. It uses conceptual, mathematical and experimental tools to achieve this understanding. In this unit, we survey mechanics, electromagnetism, optics and thermal physics, and briefly consider relativity, quantum physics and nuclear physics. Conceptual, mathematical and experimental understanding of physics will be developed, and the use of the tools of physics (e.g. estimation, uncertainty, dimensional analysis) will be introduced. This unit provides non-specialists (e.g. students in other majors and aspiring secondary teachers) with a good basic overview of the subject, and prepares specialist students for further study.

700035.5 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.

300829.2 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).

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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.

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 through flipped mode of delivery supported by face to face tutorials.

300990.2 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.

101634.5 Planning and Environmental Regulation

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 an understanding of the planning process from both a state 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.

300921.2 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.

300865.2 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

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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.

301272.1 Plant Science

Credit Points 10 **Level** 3

Assumed Knowledge

Sound knowledge of biology and chemistry equivalent to undergraduate Level 1 units. 20 credit points of Level 2 Biology units.

Prerequisite

300802.2 Biodiversity

Incompatible Units

300865 Plant Physiology 300609 Plant Physiology

Unit Enrolment Restrictions

Students must have passed 20 credit points at Level 2.

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.

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.

101895.2 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.

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.

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.

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.

300869.2 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.

102348.2 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.

300197.4 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.

900115.1 Practical Mathematics (WSTC)

Credit Points 10 **Level** 7

Assumed Knowledge

Year 9 Mathematics or equivalent

Equivalent Units

900055 - Foundations of Mathematics (WSTC)

Unit Enrolment Restrictions

Students must be enrolled in University Foundation Studies Extended 3 Term course

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This unit has been designed to develop the students' mathematical literacy and mathematical thinking necessary for further education, work and everyday life. The unit aims to build on existing skills, develop skills in new areas and encourage students' confidence in their own ability by applying mathematical concepts to a series of real life problems.

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.

301034.2 Predictive Modelling

Credit Points 10 **Level** 3

Prerequisite

For students not enrolled in 3734 Bachelor of Data Science, 3769 Bachelor of Data Science or 3770 Bachelor of Applied Data Science - 300700 Statistical Decision Making or 200263 Biometry or 200032 Statistics for Business.

Corequisite

Students in Bachelor of Data Science or Bachelor of Applied Data Science must be enrolled in 301108 Thinking About Data

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In this information age, business and science depend on accurate predictions to make informed decisions. Machine learning is the process of allowing a computer to learn from data, which at its heart is used in making these important decisions. This unit provides students with the knowledge and practice required to implement and effectively use these predictive models such as Neural Networks and Support Vector Machines. Students will use the Python programming language throughout this unit.

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.

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, 2824 Master of Laws, 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 2 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.

200602.2 Principles of Valuation

Credit Points 10 **Level** 1

Assumed Knowledge

Students undertaking this unit should have a sound knowledge of the property industry and an understanding of introductory financial mathematics.

Equivalent Units

VA102A - Principles of Valuation

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 covers five main topic areas. The first area covers various valuation methods and extends the students' knowledge in relation to industrial property valuation. The second area covers the hypothetical development method of valuation as well as strata valuation principles. The third area introduces the valuation of partial interests and advanced valuation mathematics. The fourth area provides an introduction to statutory valuation, rating and taxing of property. The last area introduces the students to commercial property valuation.

102036.2 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.

301365.1 Probabilistic Graphical Models

Credit Points 10 **Level** 7

Assumed Knowledge

Probability, Linear Algebra, Basic Programming

Prerequisite

301114.2 The Nature of Data

Modelling data provides us with a method for inference, but there are many occurrences when interest lies in the reasoning behind the decision making. In this unit, students learn to model processes and the reasoning behind the processes using probabilistic graphical models. The unit investigates the construction and application of model-based approaches for complex systems. Students will manually create models based on prior knowledge and investigate methods of learning model structures from data, which can be used to make decisions under uncertainty. Topics covered include Monte Carlo Methods, Decision Theory, Bayesian networks, Markov networks, and the use of information theory.

301250.1 Probabilistic Models and Inference

Credit Points 10 **Level** 3

Assumed Knowledge

Probability, Linear Algebra, Basic Programming

Prerequisite

301107.1 Analytics Programming AND **301108.1** Thinking About Data OR **300700.7** Statistical Decision Making

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The unit provides students with an understanding of probabilistic models and inference. It covers model-based approaches for complex systems – from constructing these models to applying information to models. The models, which can be created manually and obtained by learning from data, will also be useful to make decisions under uncertainty. A variety of models and techniques will be discussed; examples include Monte Carlo Methods, Decision Theory, Bayesian networks, Markov networks, and the use of information theory.

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.

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.

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 2 units.

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In 2020 this unit replaced by 700290 – Construction Communication (WSTC). 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.

300578.4 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.

300579.7 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.

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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.

300900.3 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 SCEM 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.

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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.

300053.5 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 OR **301213.1** Construction Communication

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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.

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.

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.

900009.3 Programming Design (WSTC)

Credit Points 5 **Level** Z

Unit Enrolment Restrictions

Students must be enrolled in a Western Sydney University The College Foundation Studies course.

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Programming Design introduces students to the principles required for the effective design of solutions to computer program related problems. The course has been developed to enhance a student's practical ability as well as build a solid theoretical foundation for further study.

300580.4 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.

500047.1 Programming Fundamentals (UG Cert)

Credit Points 10 **Level** 1

Equivalent Units

300405 Fundamentals of Programming, 300155 Programming Principles 1, 200122 Business Application Development 1, 300580 Programming Fundamentals, 700008 Programming Fundamentals

Unit Enrolment Restrictions

Only students enrolled in course 7174 – Undergraduate Certificate in ICT can enrol

Special Requirements - Essential Equipment

Students need Java Greenfoot, need a computer with reliable internet connection, webcam and microphone

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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.

301038.3 Programming Proficiency

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Access to a computer and Internet at home

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This unit is aimed at the students whose undergraduate study is in a discipline other than computing or information technology. This unit first covers the programming fundamentals on data types, conditional selections and loop structures, and then further develops the problem solving skills through the use of user-defined functions, records, files, as well as the basic concept and techniques of object-oriented programming. A high level programming language is employed to implement all the problem solutions.

300581.5 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)

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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.

300903.2 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.

700257.2 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 2 units.

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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.

300727.3 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.

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.

301263.2 Protected Cropping Climate Control and Technology

Credit Points 10 **Level** 1

Special Requirements - Essential Equipment

During the on-campus workshop, students must wear appropriate clothing to enter the greenhouse, that is; fresh (insect-free), light and breathable, loose fitting, comfortable work clothing; closed-in flat, non-slip, soil-free footwear, sunscreen and hat as needed. It would also be beneficial to bring a water bottle and sunglasses.

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This unit will teach students the intricacies of crop management in a highly controlled growing environment and the interplay between environmental response and plant behavior. In doing so, it will incorporate one nationally recognized unit of competency, "AHCPTH503 – Manage a controlled growing environment". Students will also identify controlled environment technologies including those available, under-development and being researched, such as robotics, sensors and gene technologies. Students will gain an appreciation for the science and technology that drives high-tech greenhouse production and apply their skills in Western Sydney University's state of the art National Vegetable and Protected Cropping Centre (NVPCC) and its PRIVA operating system at the Hawkesbury campus.

301277.1 Protected Cropping Plant Nutrition

Credit Points 10 **Level** 1

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Plant nutrition is essential to plant health and defence, productivity and crop quality; this is especially so in the soilless environment employed by the protected cropping industry. This unit will focus on crop nutrient requirements, nutrient deficiencies and their symptoms, practical nutrient monitoring using hand-held technologies and the PRIVA system and correction techniques. This unit also explores soilless substrates and their influence on nutrient loads, nutrient-rich waste water recovery, reuse and environmentally sustainable disposal options. Western Sydney University is home to the state of the art National Vegetable and Protected Cropping Centre (NVPCC), this facility will be utilized in the on campus components of this course.

900123.1 Psychological Foundations of Health (WSTC)

Credit Points 10 **Level** Z

Unit Enrolment Restrictions

This unit is only available to College students enrolled in Foundation Studies courses.

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This unit provides an introduction to the psychology of health and behaviour relevant to understanding patient health decisions and outcomes. Students will be introduced to psychology and health to understand the tradition and relevance of psychology to nursing. This unit also includes foundation topics such as models of health and illness,

health-behaviour change models, risk-taking behaviour, stress and health, learning and conditioning, personality and health, human development over the lifespan, death and dying, as well as group dynamics in health. These topics are offered as basic principles, theories, and models of psychology related to health behaviours, future learning, and professional practice in nursing.

102350.3 Psychology and the Online World

Credit Points 10 **Level** 3

Prerequisite

101184.3 Psychology: Human Behaviour AND **101183.3** Psychology: Behavioural Science

These prerequisite units do not apply to students enrolled in the Bachelor of Cyber Security and Behaviour, who are required to successfully complete 70 credit points before enrolling in this unit.

Unit Enrolment Restrictions

Students must be enrolled in the Bachelor of Cyber Security and Behaviour, Bachelor of Psychology, Bachelor of Psychology (Honours), Bachelor of Social Science (Psychology) or Bachelor of Communication, Bachelor of Arts and Diploma in Arts/Bachelor of Arts courses with a specialisation in Psychological Studies. Students enrolled in the Bachelor of Cyber Security and Behaviour must have successfully completed 70 credit points. Students enrolled in all other courses must have completed the two Level 1 pre-requisite units as stated above, as well as 30 credit points from the following Psychology Level 2 units: 101684 Brain and Behaviour, 100013 Experimental Design and Analysis, 101680 Perception, or 101676 Human Learning.

The world has seen an enormous explosion of activity that takes place in online environments that include the Internet, intranets, gaming platforms and peer to peer phone communication (e.g. SMS). There are wide ranging debates about the use and effects of online communication with concerns about hacking, trolling, bullying, scamming, online addiction appearing on a daily basis. Others celebrate the potential of the Internet to produce profound social change. Is the online world quite as bad or as good as it is made out to be? What are the psychological processes behind these and other online behaviours? Why not find out?

101183.4 Psychology: Behavioural Science

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. 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.

101184.4 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.

102574.2 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.

300748.3 Quality and Value Management

Credit Points 10 **Level** 3

Equivalent Units

200469 - Quality and Value Management

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.

300922.3 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.

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.

800172.1 Quantitative Methods in Neuroscience

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

In 2017 this unit replaced by 800192 - Neuroscience Methods. 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.

200045.4 Quantitative Project

Credit Points 10 **Level** 3

Prerequisite

Students must have successfully completed 30 credit points of Level 2 mathematics/statistics units from 200027 Linear Algebra, 200028 Advanced Calculus, 200030 Differential Equations, 301031 Computer Algebra, 301032 Making Sense of Data, 301033 Introduction to Data Science, Students must also have completed 30 credit points of Level 3 mathematics/statistics units from 200022 Mathematical Modelling, 200023 Analysis, 200193 Abstract Algebra, 300958 Social Web Analytics, 301034 Predictive Modelling, 301035 Environmental Informatics

In this unit, students can deepen or apply knowledge gained during their course and practise verbal 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 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, as well as a literature review or a list of references as appropriate. Students will also give a talk on their project.

300831.4 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.

700123.3 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 2 units.

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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.

200487.4 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

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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.

301392.1 Quantum Physics

Credit Points 10 **Level** 3

Assumed Knowledge

Mathematics 1A, Mathematics 1B, Physics 1 and Physics 2

Prerequisite

[300828.2](#) Physics 1 AND [300829.2](#) Physics 2

Equivalent Units

300419 - Quantum Properties of Chemical Systems

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The unit builds on quantum concepts that have been introduced in earlier units such 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

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.

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.

102202.2 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).

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.

800168.1 Research Fields

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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Each School and Institute within the University has developed a specialist core unit designed to orient students to research in its relevant disciplines. These units interact with the three other core units within the Master of Research: Research Design 1: Theories of Enquiry, Research Literacies and Research Design 2: Practices of Research to provide students with opportunities to develop foundational skills and knowledge in the student's relevant area of research.

800228.1 Research Internship and Engagement

Credit Points 10 **Level** 7

Prerequisite

800218.1 Researcher Development 1: Reading, Writing, and the Business of Research

Equivalent Units

800176 - Internship and Community Engagement (PG)

Unit Enrolment Restrictions

Students must be enrolled in 8083 Bachelor of Research Studies or 8084/8085 Master of Research. Internship or work placement must be agreed between student and unit coordinator prior to student enrolling in the unit.

Special Requirements - Essential Equipment

Any Internship/work placement site requirements. For example safety gear.

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The aim of this unit is to provide MRes candidates with a research development and training opportunity through a cross disciplinary, supportive, experiential learning environment. Through exposure to workplaces, research institutes, community settings, and research processes, students will have the opportunity to apply their research and technical skills and develop their professional identity in their chosen field of research. The placement will be chosen by the student in consultation with the unit coordinator and will be undertaken either as an individual or part of a project team. If students enrolled in B Research Studies/M Research wish to take this unit before having completed the prerequisite unit 800218 Researcher Development 1: Reading, Writing, and the Business of Research, contact the unit coordinator to obtain permission to complete a rule waiver (this will be on a case by case basis only).

102728.1 Research into Practice: bridging the clinician-researcher divide in applied and creative therapies

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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Evidence Based Research (EBR) can inform excellence in clinical practice in order to best meet the needs of our clients and patients. How we choose and use this research is critical, as is the way that we understand ourselves to be a researcher, beyond our practitioner identity. If you are seeking to translate benchtop research (basic laboratory approaches) into applied research practice, and if you are transitioning towards a new identity as a clinician-researcher, this is the unit for you. Our applied research focus considers broad applications relevant to the creative arts therapies, verbal therapies, allied and other health professions, by looking at research processes which ultimately improve practice in the 'real world'.

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.

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In 2018 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)

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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.

301387.1 Research Preparation in Post Graduate Studies

Credit Points 10 **Level** 7

Equivalent Units

301004 - Research Preparation in Post Graduate Studies

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Life is research! This unit introduces students to the nature of research and why it is essential to today's way of living. What are the current and big questions in research? How to prepare for conducting a research in various areas? What are the differences between study, investigation and research? In this unit, the main emphasis will be on different types of modern research and their methods/ methodologies with special emphasis on Science, Technology, Engineering & Mathematics (STEM). This unit will also encompass various advanced tools that support research, its writing styles, publication channels and research ethics. Key elements of good research design are also introduced as well as the concepts of intellectual property and commercialisation.

301069.3 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.

800218.1 Researcher Development 1: Reading, Writing, and the Business of Research

Credit Points 10 **Level** 5

Equivalent Units

800166 - 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 (Planning), 1712 Master of Planning, 3702 (8112) Master of Information and Communications Technology (Research), 1870 Master of Chinese Cultural Relations, 1883 Master of Cross-cultural Relations or 3761 Master of Architecture (Urban Transformation).

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Research is the process of using knowledge to generate new understandings of the world. Research is also a social enterprise, with communities and norms of behaviour, and is an industry that is shaped by numerous cultural and economic forces. Taking a holistic approach that includes

general research skill development, this unit focuses on four main topics: (1) critical reading, (2) effective writing, (3) research as a professional industry, and (4) the ethics of stewardship and personal responsibility. The unit equips students with vital skills that underpin their discipline-specific learning, and lays the ground for their development as professional researchers.

800220.1 Researcher Development 2: Proposing and Justifying Research

Credit Points 10 **Level** 5

Prerequisite

800218.1 Researcher Development 1: Reading, Writing, and the Business of Research

Equivalent Units

800169 - Research Design 2: Practices of Research

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 (Planning), 1712 Master of Planning, 3702 (8112) Master of Information and Communications Technology (Research), 1870 Master of Chinese Cultural Relations, 1883 Master of Cross-cultural Relations or 3761 Master of Architecture (Urban Transformation)

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An essential skill required by researchers is the ability to propose research and justify it in a persuasive manner. Through interactive workshops, Researcher Development 2 helps students develop and refine a research proposal. The unit includes workshops on research ethics that will help students articulate the significance and relevance of their work and will assist those requiring ethics clearance. The written proposal is defended through the oral Presentation of Proposal (POP). After successful completion of this unit, students will have demonstrated an ability to design and justify a research project in their discipline.

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.

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.

102266.2 Researching the Visual

Credit Points 10 **Level** 2

Prerequisite

102262.1 Design Histories and Futures OR **102263.1** Image Design OR **101922.1** Web and Time-based Design
The pre-requisite requirement does not apply to students in course 1791 Bachelor of Screen Media (Arts and Production) who are required to meet the Unit Enrolment Restriction below.

Unit Enrolment Restrictions

Students in course 1791 Bachelor of Screen Media (Arts and Production) must have successfully completed 60 credit points of Level 1 units.

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This unit will introduce students to various ways of seeing and reading images in the visual environment. Students will learn how to conduct visual research using a tool kit of methods including semiotic analysis, content and thematic analysis, and basic observational research across the digital and material environments of visual communications design, and to apply their findings in the development of visual concepts. Students will continue to engage as reflective practitioners and learn to position themselves as visual researchers within a particular cultural and personal context.

301226.1 Residential Building

Credit Points 10 **Level** 1

Equivalent Units

BG101A Building 1 700070 Building 1 (WSTC) 300706 Building 1

Unit Enrolment Restrictions

Students in the following courses cannot enrol in this unit: 2786 Bachelor of Business (current course) 2788 Bachelor of Business/Bachelor of Laws (current course) 2739 Bachelor of Business and Commerce (continuing course) 2740 Bachelor of Business and Commerce/Bachelor of Laws (continuing course) 2753 Bachelor of Business and Commerce (continuing course) 2754 Bachelor of Business and Commerce (Advanced Business Leadership) (continuing course) 2787 Bachelor of Business (Advanced Business Leadership) (current course)

.....

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.

700304.1 Residential Building (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

BG101A - Building 1; 700070 - Building 1 (WSTC); 300706 - Building 1; 301226 - Residential Building

Unit Enrolment Restrictions

Students must be enrolled at The College to enrol in this unit. 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 Integrated courses need to have passed or be enrolled in the preparatory units in their course in order to enrol in this unit.

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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.

301231.1 Residential Building Project

Credit Points 10 **Level** 4

Assumed Knowledge

Local Government planning requirements, residential construction details, quantity surveying, contract documentation, site planning

Prerequisite

301226.1 Residential Building AND **301228.1** Drawing and CAD

Equivalent Units

200482 Construction in Practice 1 300886 Construction in Practice 1

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This unit is designed to allow students 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 complex residential construction project.

700099.3 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 2 units.

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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

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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.

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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 Revaluating 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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Revaluating 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.

301205.2 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).

900090.3 Science for Health Professionals (WSTC)

Credit Points 10 **Level** Z

Equivalent Units

900049 - Science for Health Science (WSTC) 700059 - Science for Health Science (WSTC Prep) 900068 - Science for Nursing (WSTC)

Unit Enrolment Restrictions

Only students enrolled at The College in Foundation Studies courses can enrol in this unit.

Special Requirements - Essential Equipment

Closed shoes.

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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 to determine 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 are required in order to commence any tertiary health science course.

301212.2 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.

300924.2 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 successfully 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.

102209.1 Scientific Discovery and Invention

Credit Points 10 **Level** 2

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Scientific discovery and inventions have made a significant impact on contemporary society. Science is a dynamic, futures oriented, collaborative human endeavour arising from curiosity and interest. In this unit students explore science as a distinctive way of thinking about and explaining events and phenomena. This unit aims to develop students' understanding of the creativity of science and technology concepts and investigative and innovative processes. As the unit also aims to investigate the impact of scientific discoveries and inventions on society, students will examine how various perspectives, such as cultural (including Australian Aboriginal and Torres Strait Islander) perspectives, explain natural phenomena. This unit will benefit students interested in teaching as a career to design authentic learning programs that explore how scientific discovery and invention are applied in everyday life.

301037.3 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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From Autumn 2021, this unit will be replaced by 301388 Scientific Informatics. 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.

300811.2 Scientific Literacy

Credit Points 10 **Level** 1

Assumed Knowledge

Basic literacy and numeracy.

Equivalent Units

300497 - Professional Skills for Science, 700124 - Scientific Literacy (WSTC)

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This unit is designed to provide students with scientific literacy, personal and employability skills and attitudes required to successfully undertake science-related undergraduate studies and to prepare for professional life. Students learn, develop and utilise academic and interpersonal methodologies and approaches within the context of applied scientific principles and take responsibility for their own learning and develop a work ethic. Students are introduced to the contestable and uncertain nature of science and the scientific method that underpins academic integrity and ethical behaviour. Activities encourage development of oral and written communication skills, self-confidence, self-efficacy, creative and critical thinking through problem solving, group process, and peer support and assessment. Academic and employability skills include scientific reading and writing, time management, researching scientific information and library skills, oral presentation, taking tests and exams, effective personal and group based learning strategies, and approaches to online learning.

700124.3 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 2 units.

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This unit is designed to provide students with scientific literacy, personal and employability skills and attitudes required to successfully undertake science-related undergraduate studies and to prepare for professional life. Students learn, develop and utilise academic and interpersonal methodologies and approaches within the context of applied scientific principles and take responsibility for their own learning and develop a work ethic. Students are introduced to the contestable and uncertain nature of science and the scientific method that underpins academic integrity and ethical behaviour. Activities encourage development of oral and written communication skills, self-confidence, self-efficacy, creative and critical thinking through problem solving, group process and peer support and assessment. Academic and employability skills include scientific reading and writing, time management, researching scientific information and library skills, oral presentation, taking tests and exams, effective personal and group based learning strategies and approaches to online learning.

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

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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.

51212.4 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 2824 Master of Laws, 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)).

200898.2 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.

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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.

300057.6 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.

700241.2 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.

301167.2 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.

301306.1 Simulation in Virtual and Augmented Realities

Credit Points 10 **Level** 2

Assumed Knowledge

Possession of 2D or 3D modelling skills is desirable but not essential

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Simulation in three-dimensional (3D) environments provide valuable insights to human-centred perspectives. Whilst investigating the fundamentals of Virtual Reality (VR) and Augmented Reality (AR), students will analyse aspects of functionality, user interfaces, spatial relationships in built environments, sustainability, efficient resource management, instructional support for safety and training, and accelerated design conceptualisation in detailed new product, service or environmental innovation. Students' experiences will equip them for future employment as VR and AR experience designers, interactive experience producers, or creative technologists.

900112.1 Skills for Health Science (WSTC)

Credit Points 5 **Level** Z

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney The College in Foundation Studies courses

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This unit is designed to give students skills in health science to become successful independent reflective learners in health sciences. It introduces students to a range of theories and concepts to facilitate the development of referencing conventions used in health science as well as practical skills and personal attitudes necessary for success in tertiary study and eLearning. Emphasis is placed on developing the key competencies of inquiry – analysing, organising, researching and communicating information as well as problem solving.

300961.4 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.

102274.1 Social Design: Research and Practice

Credit Points 10 **Level** 3

Assumed Knowledge

Students should have completed one specialisation pairing.

Prerequisite

102270.1 Graphic Design: The Professional Context OR
102266.1 Researching the Visual

Equivalent Units

101020 Design Research Training

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This unit introduces students to the idea that graphic designers can be agents of change. Set project briefs will focus on social and political issues exploring the potential inherent in graphic design practice to make a real difference to society. The unit will encourage students to go beyond the definition of a problem solver, encouraging them to act as a problem seeker, who can use their design thinking skills to develop ideas that respond proactively to society's problems rather than reacting to a client's set brief. The unit will introduce further design-led, social and participatory research methods, that continue to build on the design process, and further expand the methods that underpin aspects of research and practice during the remainder of the degree. Students will refine and develop their visual language skills, in combination with material and digital skills, facilitating their development as an independent learner.

102152.3 Social Ecology

Credit Points 10 **Level** 7

Equivalent Units

101654 - Researching Social Ecology

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course, with the exception of those students enrolled in the Bachelor of Research Studies.

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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.

101683.4 Social Psychology

Credit Points 10 **Level** 3

Assumed Knowledge

Basic understanding of core concepts of personality, social and developmental psychology

Prerequisite

100013.3 Experimental Design and Analysis

This pre-requisite will not apply to students enrolled in course codes 1630 Graduate Diploma in Psychological Studies or 1793 Bachelor of Science, Criminology and Psychological Studies.

Equivalent Units

100020 - Social and Developmental Psychology

Unit Enrolment Restrictions

The online version of this unit is only available to students enrolled in 1793 Bachelor of Science, Criminology and Psychological Studies.

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Social psychology is the study of human behaviour and mental processes in their social context. Social psychology examines social behaviour and social thinking using scientific psychological research methods. This unit considers both classic and recent theories, research and applications in core areas of social psychology such as: attitudes, stereotyping and prejudice, social cognition, group processes, cross-cultural and indigenous psychology, and social influence. Emphasis is placed upon the role of contemporary research and theory in increasing our understanding of social phenomena and the relevance of this to everyday life.

102194.3 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.

300958.4 Social Web Analytics

Credit Points 10 **Level** 3

Assumed Knowledge

Students are expected to be familiar with fundamental computer programming concepts.

Prerequisite

Students who are NOT enrolled in 1837 Bachelor of Cyber Security and Behaviour, 3769 Bachelor of Data Science or 3770 Bachelor of Applied Data Science must have successfully completed one the following three units 300700 Statistical Decision Making OR 200263 Biometry OR 200032 Statistics for Business Students enrolled in 1837 Bachelor of Cyber Security and Behaviour must have successfully completed the following two units 100013 Experimental Design and Analysis AND 301107 Analytics Programming

Corequisite

For students enrolled in courses 3769 Bachelor of Data Science or 3770 Bachelor of Applied Data Science 301108 Thinking About Data

Special Requirements - Essential Equipment

Internet access

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The Social Web provides everyone with a voice; information from Facebook, Twitter and other social networks allows us to identify trends and relationships in society. Whilst this has interest on a personal level, the killer-apps will be in analysing social Web data for business, such as tracking the buzz around a new product, and understanding the relationships between customers and products. This unit will introduce its students to the Social Web data that is available, and blend data science and machine learning concepts to allow extraction and analysis of such data.

102844.1 Society, Culture and Human Diversity

Credit Points 10 **Level** 2

Equivalent Units

102347 - Anthropologies of the Everyday

Unit Enrolment Restrictions

Successful completion of 40 credit points

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In this unit students will conduct comparative studies of how people create a living and make meaning of their everyday experiences in various contemporary contexts. By using cultural diversity as an analytical lens, students will engage with the broader questions about what it means to be human, how cultures change and adapt and how studies of human diversity can provide answers to many of the challenges of the future. Through case studies, critical analyses and self-reflection students will also examine how key unit themes such as cultural competence, ethnographic inquiry and comparativism are applied in anthropology and other key employment areas for social science and humanities graduates.

300985.3 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.

700245.2 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

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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.

300823.2 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

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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.

301248.2 Space Instrumentation, Technology and Communication

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge of Mathematics equivalent to 2-unit HSC, and experience with the use of computer software such as Excel or Word would be beneficial. Previous experience of statistics or computer programming will be an advantage but is not essential.

Unit Enrolment Restrictions

Student must be enrolled in a postgraduate course.

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The Space Instrumentation, Technology and Communication unit is focussed on the application of space technology in industrial settings. Its main objective is to provide a sound knowledge of the underlying principles which form a thorough basis for careers in space technology, satellite communications and related fields. This unit gives the student grounding in the technologies used in space science. By considering the underlying scientific principles and case studies of the instrumentation used in space, students will not only understand the current state of the art in space science, but also the foundations of the field in order to be able to stay current in this fast-moving field. Content includes but is not limited to: Imaging, Detectors, Principles of Communication, and Principles of Space Technology.

301249.2 Space Science, Planetary Science and Meteorology

Credit Points 10 **Level** 7

Assumed Knowledge

Knowledge of Mathematics equivalent to 2-unit HSC, and experience with the use of computer software such as Excel or Word would be beneficial. Previous experience of statistics or computer programming will be an advantage but is not essential.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit examines the six key priorities of the Australian Space Agency: communication, space debris monitoring, navigation and positioning, Earth observation, space technology research and development, and remote asset management. Students will examine the Sun and Solar System, planetary science, meteorology, and the physics of rockets and satellites. Students will explore the interconnections between the Earth land, ocean, atmosphere, and life of our planet in the era of modern satellite technologies. These include the critical review of our understanding about the cycles of water, carbon, rock, and other materials that continuously shape, influence, and sustain Earth and its inhabitants. Students will also be able to design new models of the cyclical interactions between the Earth system and the Sun, Moon and will discover the

fundamental processes which define our Universe and our planet.

102295.2 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.

301173.2 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

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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.

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.

201079.1 Sport and Society

Credit Points 10 **Level** 2

Assumed Knowledge

A basic understanding of the sport industry

Equivalent Units

400335 - Contemporary Issues in Sport Management, 200999 Sport and Society

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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.

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.

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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.

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.

301304.1 Start-Up Product Launch

Credit Points 10 **Level** 4

Equivalent Units

300015 - Design Management 4: Design Process; 301094 - Design Management 4: Strategy and Lean Start-Up

Special Requirements - Essential Equipment

Students must be able to utilise the University provided Makerspace, computer labs and specialist software or provide their own computer equipment with working

software. An online work safety module must have been completed prior to workshop space use. MakerSpace safety inductions for the workshop may also be required including inductions per apparatus such as laser cutting or 3D printing.

Students, working in cross functional teams and as individuals, will develop a mature value proposition for validation and launch of a market-ready product or service that includes promotional narratives and artefacts. Students will focus on entrepreneurial innovation and lean start-up models using design-led strategies such as CANVAS modelling, minimum viable product (MVP), and launching in addition to strategies for securing external funding for projects. Students will be well placed to create dynamic adaptive organisation for business, government, wider communities and start-up businesses as career professionals.

300700.7 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

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.

700041.7 Statistical Decision Making (WSTC)

Credit Points 10 **Level** 1

Prerequisite

Students enrolled in 7005 Diploma in Information and Communications Technology, 7067 Diploma in Information and Communications Technology Extended, 7104 Diploma in Information and Communications Technology (Health Information Management), 7106 Diploma in Information and Communications Technology (Health Information Management) Extended 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 2 units.

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.

300991.2 Statistical Hydrology

Credit Points 10 **Level** 3

Prerequisite

300983.1 Surface Water Hydrology

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.

700045.3 Statistics for Academic Purposes (WSTC Prep)

Credit Points 5 **Level** Z

Assumed Knowledge

Year 10 Mathematics or equivalent

Equivalent Units

900011 - Statistics for Academic Purposes (UWSC)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

Understanding, creating and working with statistics are fundamental skill requirements in many areas and career pathways within the arts, business, science and the humanities disciplines. This unit will provide students with a comprehensive overview of statistics in order to prepare them for success in first year university units of study where they will further develop their skills. Through both individual and group tasks students will use statistics to organize and display data as well as draw valid inferences, based on data, by using appropriate statistical tools.

900011.3 Statistics for Academic Purposes (WSTC)

Credit Points 5 **Level** Z

Assumed Knowledge

Year 10 Mathematics or equivalent

Equivalent Units

700045 Statistics for Academic Purposes (WSTC Prep)

Unit Enrolment Restrictions

Students must be enrolled in a Western Sydney University The College Foundation Studies course.

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Understanding, creating and working with statistics are fundamental skill requirements in many areas and career pathways within the arts, business, science and the humanities disciplines. This unit will provide students with a comprehensive overview of statistics in order to prepare them for success in first year university units of study where they will further develop their skills. Through both individual and group tasks students will use statistics to organize and display data as well as draw valid inferences, based on data, by using appropriate statistical tools.

200032.7 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.

700007.6 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, 7059 Diploma in Business and Commerce Extended, 7063 Diploma in

Business and Commerce, 7098 Diploma in Business or 7102 Diploma in Business Extended must pass 700045 Statistics for Academic Purposes (WSTC Prep) before enrolling in this unit.

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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.

300730.3 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

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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

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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.

300732.3 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.

900091.2 Studies of Society (WSTC)

Credit Points 10 **Level** Z

Unit Enrolment Restrictions

Students must be enrolled in a Foundation course at The College.

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This unit aims to help students develop an understanding and appreciation of Australian society. The unit will provide general information and familiarise students with key structures, events, concepts and terminology used in relation to Australia's modern society. At the end of this unit, students should have greater knowledge and understanding on Australia's history, governmental and political systems. They will learn about consumer laws, civilian rights and responsibilities as well as the composition of Australia's population and relevant variations and trends.

301402.1 Studio: Design Synthesis Capstone

Credit Points 10 **Level** 4

Assumed Knowledge

Experience in using 2D and 3D graphic/modelling software and equipment such as 3D printers, hand tools for model making purposes is highly desirable.

Special Requirements - Essential Equipment

Drawing and rendering equipment, A3 Process Diary, A variety of model making materials, USB storage device or external storage device

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This unit engages students in a significant project that synthesises creative thinking, design strategy and practical design skills in preparation to be 'work-ready' as a designer upon graduation. Students will apply the skills that they have acquired throughout their degree in core and specialised elective subjects toward their Design Capstone project. The amalgamation of multidisciplinary viewpoints with industry collaborators throughout the unit ensures a vibrant learning environment, culminating in well resolved design outcomes within a Work Integrated Learning (WIL) Framework with linkages to a real-world challenge.

301294.2 Studio: Interdisciplinary Global

Credit Points 10 **Level** 4

Equivalent Units

300311 - Design Studio 3: Product Realisation; 301083 - Design Studio 5: Symbol and Meaning Making

Unit Enrolment Restrictions

Student are required to have completed 120 credit points in any WSU 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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This unit engages students in a collaborative evidenced based project with local and international expert partners including NASA in the thematic area of Designing for Space Missions 2025 for astronaut health and space architecture for habitat design. Students are able to explore new concepts and integrate their skills within teams across unique research domains. The traditional linear thinking of creativity and innovation is challenged, giving way to a dynamic workspace for discussion, exploration, discovery, critical reflective practice, and maker-culture. This leads to new co-created interdisciplinary innovations which assist in the preparation of students for the Future of Work and decision-making across diverse teams. The focus on the physical and psychological aspects of space are also informing new viewpoints in designing with COVID19 in the Built Environment.

200329.5 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, 3693 Master of Engineering 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.

301329.1 Surface Water Hydrology

Credit Points 10 **Level** 4

Assumed Knowledge

Students need working knowledge of spreadsheet software, for example Microsoft Excel

Prerequisite

300765.3 Hydraulics

Equivalent Units

300766 - Hydrology, 300983 - Surface Water Hydrology

Special Requirements - Essential Equipment

Laptop with M/S Excel installed – use WSU library borrowing facility, if required.

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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.

300738.4 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.

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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.

700120.3 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.

300798.3 Sustainability and Risk Engineering

Credit Points 10 **Level** 4

Prerequisite

[300737.5](#) Environmental Engineering AND [300983.3](#) Surface Water Hydrology

Unit Enrolment Restrictions

Successful completion of 200 credit points.

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Analysis of sustainability with engineering perspectives is increasingly becoming important in the modern world. Also, often the risk analysis is required to be carried for true sustainable solutions. 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 students will discuss and understand various engineering issues including 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 and, overall system analysis.

300939.3 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.

301399.1 Sustainable Construction Materials

Credit Points 10 **Level** 2

Assumed Knowledge

Content covered in Residential Building

Incompatible Units

200472 - Material Science in Construction

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This unit focusses on the suitability for purpose (performance, durability, sustainability and standards and regulatory compliance) of building and construction materials. Students investigate the physical properties and behaviour of various timbers, metals, concretes, polymers, new materials and composite systems, and their durability within Australia's diverse environments. Students also consider sustainable and eco-friendly construction materials in life-cycle assessment of construction systems and materials selection at the design stage.

301081.3 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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From Spring 2020, this unit will be replaced by 301293 - Designing for Circular Economy (Advanced). 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.

301409.1 Sustainable Environments

Credit Points 10 **Level** 3

Assumed Knowledge

Students will be expected to apply previous knowledge in ecology and environmental assessment.

Prerequisite

300839.2 Ecology

Unit Enrolment Restrictions

Students must successfully complete 40 credit points at Level 2

Special Requirements - Essential Equipment

Students will require enclosed footwear for field work, as well as lab coats and personal protective equipment for working in the environmental laboratories on campus.

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As a student in Sustainable Environments you will synthesize and apply your knowledge about how ecological systems are responding to human impacts in the Anthropocene and how adaptation and mitigation can moderate these impacts. You will demonstrate knowledge of the role of biological and physical processes in provision of ecosystem services. You will apply analytical skills to identify sustainable solutions in social-ecological systems. You will incorporate social and cultural contexts, including relevant Aboriginal perspectives, in communicating science-based knowledge related to the United Nations sustainable development goals in an independent, problem-based sustainability project.

300791.2 Sustainable Food Production

Credit Points 10 **Level** 2

Incompatible Units

300530 - Advances in Agronomy

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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.

301288.1 Sustainable Materials and Smart Manufacturing

Credit Points 10 **Level** 1

Equivalent Units

300304 Sustainable Design: Materials Technology; 301095 Sustainable Design 1: Materials Technology

Special Requirements - Essential Equipment

Access to a computer running SolidWorks and Granta CES Eductack.

.....

In this unit we explore the circular 'Cradle to Cradle' design philosophy through material choice and manufacturing systems. Introduced are conventional materials, smart materials, and manufacturing systems within an ecological assessment framework, equipping designers with the tools

to select and assess materials and manufacturing processes appropriate to use. Students undertake a life cycle materials research project and a design for manufacture (DFM) project in the context of emergent Industry 4.0 principles.

301003.2 Sustainable Systems

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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This unit teaches students the essential tools available to achieve environmental sustainability in various engineering/construction/industrial design professional settings. The focus of the unit is on the application of the tools and exploration of Australian regulatory and sustainable development practices.

300165.5 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

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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.

300585.3 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)

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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.

70013.4 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 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 2 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.

300166.4 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.

300167.5 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.

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.

102796.1 Teachers as Change Makers

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Students must have completed 40 credit points to enrol in this unit.

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Through engaged learning, Teachers as Change Makers builds professional teaching skills by enhancing pre-service teachers' understandings of the clientele with whom they will be professionally involved as teachers. This unit includes a practical component requiring a minimum of 25 hours of engaged learning in primary schools that provide support to children from a range of diverse backgrounds and experiences. Through practical experience such as learning support programs, the unit explores the criticality of ethical understandings and teaching practices that may influence the educational outcomes of children. In particular, this unit focuses on promoting the importance of reciprocal and reflexive teaching approaches for providing inclusive settings that make a difference to children's educational experiences and provides a space to critically explore how teaching practices can empower students and communities. Instructions before enrolment Students intending to enrol in this unit are required to complete some of the Special Requirements (https://www.westernsydney.edu.au/soe/education/special_requirements) before attempting to enrol in the unit. That is, complete a Working With Children Check (WWCC), and the ASCIA anaphylaxis e-training course at least three weeks before the start of semester as the WWCC and the ASCIA anaphylaxis certificates take up to three weeks to be received. Forward certificates to the following email addresses respectively including your Name, Student ID, Course Code and Course Name. • Working With Children Check - enrolments@westernsydney.edu.au • Anaphylaxis - AnaphylaxisPrm@westernsydney.edu.au Students will not be able to enrol until this process is completed. Instructions after enrolment Complete the Child Protection Awareness Training. See https://www.westernsydney.edu.au/soe/education/special_requirements. This is a compulsory requirement for working in schools and is to be completed by all students regardless of having completed Child Protection Training with another organisation. There are two online components: School of Education training and NSW Department of Education training. When you complete the NSW Department of Education's Child Protection Awareness Training, submit certificate of completion to: enquirieseducation@westernsydney.edu.au Complete the NSW Department of Education's WWCC

verification process and submit confirmation email verifying WWCC approved to: wwcc@westernsydney.edu.au

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.

300976.2 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.

300582.6 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

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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.

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.

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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.

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.

200993.2 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

.....

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.

200118.4 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

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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.

102349.2 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.

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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.

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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?

200549.3 The Australian Macroeconomy

Credit Points 10 **Level** 1

Assumed Knowledge

HSC Mathematics

Equivalent Units

200049 - Macroeconomics

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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.

102207.1 The Brain and Learning

Credit Points 10 **Level** 3

Equivalent Units

101662 - Young People, Their Futures and Education

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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.

200988.2 The Business of Hospitality

Credit Points 10 **Level** 1

Incompatible Units

200273 - Managing Service and Experience

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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.

Prerequisite

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

Equivalent Units

101092 - Music Performance 4: The Composer-Performer

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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.

300966.3 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.

102507.1 The Gothic

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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.

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.

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.

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.

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.

200098.4 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.

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.

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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.

200915.3 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.

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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.

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.

900056.3 The Structure of English (WSTC)

Credit Points 10 **Level** Z

Unit Enrolment Restrictions

Only students enrolled at The College in Foundation Studies courses can enrol in this unit

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This unit is designed to improve the English proficiency across the four macro skills (reading, writing, speaking and listening) of University Foundation Studies students who wish to progress to university studies. Students need preparation for both understanding the content of Foundation Studies and being able to participate fully in all units. Such preparation includes making clear the way English is used according to purpose, audience and unit. Moreover, students need to develop their confidence and competence in using the language in academic contexts. By raising the language awareness of students, they will be able to transfer the learning skills across the unit areas. The course also seeks to address the particular speaking needs of overseas students.

102765.1 The Value of Literature

Credit Points 10 **Level** 3

Prerequisite

100641.3 Approaches to Text OR **700136.2** Approaches to Text (WSTC) OR **101907.1** Introduction to Literary Studies OR **700288.1** Introduction to Literary Studies (WSTC) OR **101909.1** Methods of Reading

Students are required to have completed two of the three level 1 & 2 English core units.

Equivalent Units

101976 - English Literature After 1830

Unit Enrolment Restrictions

Successful completion of 60 credit points in currently enrolled course.

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This unit explores the value of literature by examining its competing uses in a range of historical contexts down to and including our own. Literature's potent combination of pleasure and instruction embraces conflicting personal, ethical, political, social, and ideological uses even as it resists them. The unit brings a comparative focus to bear on texts from diverse historical and cultural settings as a way of reflecting on and rediscovering the value of literature in the digital age. Students will also explore the function of criticism to educate the individual sensibility and shape the cultures of public life. Primary texts include poems, narrative fiction, essays, and may include drama, film, and other audiovisual material.

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.

102176.2 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.

700312.1 Thermodynamics and Heat Transfer (WSTC AssocD)

Credit Points 10 **Level** 3

Prerequisite

700153.3 Engineering Physics (WSTC AssocD) AND **700101.3** Mathematics for Engineers 1 (WSTC AssocD)

Equivalent Units

300760 - Thermodynamics and Heat Transfer

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney, The College in 7022 Associate Degree in Engineering.

This unit introduces students to the fundamentals of thermodynamics which involves energy in the form of heat and heat transfer. Students explore the basic laws and properties of thermodynamics to discover how energy is converted and transferred. Students will apply their knowledge to evaluate power and refrigeration cycles, industrial devices, as well as to design a simple industrial device.

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.

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.

301108.2 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.

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.

102737.1 Thinking Critically About Texts and Society

Credit Points 10 **Level** 1

Equivalent Units

100968 - Texts and Traditions, 700133 - Texts and Traditions (WSTC), 700293 - Thinking Critically about Texts and Society (WSTC)

In this unit students explore the application of texts – including works of literature, philosophy and sociology/ cultural studies – to our understanding of contemporary debates and challenges in order to develop critical thinking skills. Developing skills in textual analysis, this unit addresses topical issues and social problems so as to consider enduring questions such as ‘What is the human?’, ‘What is the good life?’, ‘What is meaning and how do we make it?’, and ‘What is inequality and what should we do about it?’.

300739.3 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)

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.

300893.2 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.

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.

102383.1 Topics in the History of Philosophy

Credit Points 20 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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.

200008.7 Torts Law

Credit Points 10 **Level** 2

Corequisite

200006.2 Introduction to Law OR **200977.3** Fundamentals of Australian 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 and, analysis and note taking, statutory interpretation and legal problem solving, as well as placing the law in the wider political and social context.

101901.2 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.

101598.5 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.

101904.3 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.

300877.2 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.

401164.2 Transferable Research Skills

Credit Points 10 **Level** 7

Assumed Knowledge

Students will have completed an undergraduate degree in a related discipline area

Unit Enrolment Restrictions

An active researcher on the graduate supervisory register is required to supervise students.

Special Requirements - Essential Equipment

Students will be required to supply appropriate protective clothing for laboratory or fieldwork training.

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This unit is an elective unit as part of the Master of Research and provides training in essential skills for research students in the health, medical, biomedical and natural sciences. Students will select two modules that will provide experience in advanced techniques and methodologies directly relevant to a specific area of research. It is expected that this unit, together with the unit Experimental Design and Analysis, will provide students in the health, medical, biomedical and natural sciences with a solid foundation before commencing the research project in the second year of the Master of Research degree.

101658.1 Transformative Learning

Credit Points 10 **Level** 7

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From 2020 students should note that core units are now taught in semesters rather than half yearly sessions. 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.

102180.3 Translation from Theory and Research to Policy

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 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.

102198.2 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.

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.

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.

101314.4 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.

301257.1 Vertebrate Zoology

Credit Points 10 **Level** 2

Prerequisite

300802.2 Biodiversity

Incompatible Units

300861 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 combines 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 further develop their knowledge of the scientific method to conduct their own project to investigate how environmental factors influence vertebrate animal abundance and diversity. Students may be required to travel to another campus to undertake this unit.

300862.3 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.

102199.2 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.

301109.3 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.

102317.2 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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In 2021 this unit replaced by unit 102828 - Animation and Visual Effects. 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.

101921.1 Visual Storytelling

Credit Points 10 **Level** 1

Assumed Knowledge

Basic written English skills

Equivalent Units

10878 - Design Principles 2D/3D, 100947 - Design Thinking, 700183 - Visual Storytelling (WSTC)

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Visual storytelling is increasingly being used in a variety of contexts including websites, magazines, advertising, business and public affairs, exhibitions and events and television, often working across a number of platforms at the same time as requiring responsive design approaches for a diversity of viewing experiences. With access to increasing amounts and types of data, professional communicators need to be able to extract meaning to connect with a variety of different audiences in creative, dynamic, and emotional ways. This Unit introduces students to story archetypes, structure and flow. It encourages metaphorical and anagogical storytelling using appropriation making reference to genre and research. This

practical unit explores a range of traditional hands-on techniques and digital software commonly used across the communications sector. Students are encouraged to explore and develop their own mark and image making skills aimed at specific target audiences and communication contexts.

300994.2 Waste Management

Credit Points 10 **Level** 4

Prerequisite

300737.3 Environmental Engineering

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Sustainable waste management, to reduce climate impact, is an important consideration for any student who is getting trained as an engineer. In this unit students will identify and characterise sources of atmospheric, solid and hazardous waste generated from the community. Students will then focus on sustainable management of waste incorporating minimisation, recycle, recovery and disposable options as well as greenhouse gases and their impact on climate change.

300992.2 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.

300870.2 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.

500052.1 Water Quality Assessment and Management (UG Cert)

Credit Points 10 **Level** 1

Equivalent Units

300635 Water Quality Assessment and Management, 700298 Water Quality Assessment and Management

Unit Enrolment Restrictions

Students must be enrolled in: 7175 – Undergraduate Certificate of Environmental Sustainability

Special Requirements - Essential Equipment

Students need a computer with reliable internet connection, Microsoft Office, webcam and microphone

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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.

300993.2 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.

301012.2 Water Resources Systems Analysis

Credit Points 10 **Level** 7

Assumed Knowledge

Discounting techniques, time value of money, equivalence analysis, present worth analysis, annual worth analysis, benefit-cost analysis, net benefit analysis, rate of return. Fluid properties, hydrostatics, open channel flow analysis, pipe network analysis, analysis and design of hydraulic structures, exposure to surface water hydrology and its components, water quality analysis.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate Engineering program undertaking a Civil Engineering specialisation.

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Water resources projects are large infrastructure projects requiring huge capital expenditure. In addition, multiple options are usually available to meet the project goals but at different costs and under varying constraints. This unit presents the application of optimisation techniques to select the best project from a list of competing projects. Applications of these techniques to optimally allocate available water resources are discussed. These are presented within the context of maximising the return of investment.

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)

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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.

300583.4 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

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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.

300902.4 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.

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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

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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.

102585.1 What is Islam?

Credit Points 10 Level 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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.

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.

300813.2 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.

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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.

300952.3 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.

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.

102257.1 Word (Literary Traditions)

Credit Points 10 **Level** 7

Equivalent Units

101835 - Word

Unit Enrolment Restrictions

Students must be enrolled in 1797 / 1831 Master of Arts in Literature and Creative Writing or the Bachelor of Research Studies / Master of Research.

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From 2017 this unit replaced by 102498 - Writing Practice and Tradition. 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.

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

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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.

301259.1 Work Internship for Science Professionals

Credit Points 10 **Level** 3

Equivalent Units

301161 Work Integrated Learning in Science

Unit Enrolment Restrictions

NOTE For Spring 2021, this unit is only available for students enrolled in either MT3021 Nutrition and Food Science or MT3031 Environmental Health. Requires Completion of 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”, to generate a career e-portfolio. Must have developed a plan for the Professional Task.

Special Requirements - Essential Equipment

It is very likely that some equipment used by the student will be specific to the placement site. This equipment will be identified in the Risk Assessment, and appropriate training is expected to be given by the workplace.

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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 WSU 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 will assure that students have the skills to manage their career planning and progression and hence improve job readiness. Students may need to travel to other campuses or locations to complete this unit. Prior to entering the unit, the student will be advised to complete three careers workshops (generating a ‘career e-portfolio’) and have attended a pre-placement meeting. At the meeting the responsibilities, requirements and assessment of the placement will be discussed. Additionally, at the meeting students will be guided on how to prepare their plan for the Professional Task.

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.

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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.

102258.1 World (Art and Nature)

Credit Points 10 **Level** 7

Equivalent Units

101836 - World

Unit Enrolment Restrictions

Students must be enrolled in 1797 or 1831 Master of Arts in Literature and Creative Writing, or the Bachelor of Research Studies / Master of Research.

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From 2017 this unit replaced by 102499 - Writing Process. 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 engage with ideas from science, phenomenology, and literary theory in considering particular aspects of both our interaction with nature, and how it shapes us, and the manner in which we shape and force ourselves upon nature. A specific theme related to this interaction between the world and our worlds will be addressed.

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.

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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.

102762.1 World Music

Credit Points 10 **Level** 2

Assumed Knowledge

A basic understanding of music notation.

Equivalent Units

101084 - Contemporary Arts 3: Politics and Communities, 101528 - Modes and Codes of Music Production, 102552 - The Politics of Australian Music

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This unit examines music from diverse cultures, such as African, Latin American, Middle Eastern, Asian, and the Australia-Oceania region, focusing on the performance, production, and transmission of contemporary fusion music. It explores the cultural-political ways in which the West represents world music as a commodity and considers how the music is inflected with notions of identity, modernity, globalisation, displacement and migration. It charts the ways in which, as a social practice, world music engages politics to promote change, giving voice to marginalised groups. Students will have the opportunity to perform selected rhythms from different cultures. Additionally, they will learn elements of music theory that pertain to the cultures studied in the unit.

102500.2 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

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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.

102497.2 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

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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.

102772.1 Writing and Reading Sci-Fi and Fantasy

Credit Points 10 **Level** 2

Assumed Knowledge

Good standard of written English expression.

Incompatible Units

101908 - Writing and Reading Sci Fi and Fantasy

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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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 workshopping 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.

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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.

800219.1 Writing Beyond the Academy: Knowledge Translation and Public Audience Communication

Credit Points 10 **Level** 5

Equivalent Units

800167 - Research Literacies

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) or 4698 Master of Health Science, 4700 GD Health Science or 4702 Master of Public Health.

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It is now more important than ever for researchers to explain their research to the public. Although it can be challenging to translate specialist knowledge for non-specialist readers, this is the skill students will receive training for in Writing Beyond the Academy. By following the model of The Conversation, a widely popular knowledge translation platform, students will learn the principles of public audience writing, how to pitch to an editor and how to work with their feedback, and produce their own public audience essay.

101920.2 Writing Ecologies

Credit Points 10 **Level** 1

Equivalent Units

100214 - Writing as Communication, 101057 - Writing as Communication, 101040 - Approaches to Communication, 700178 - Writing Ecologies (WSTC)

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This unit introduces students to a set of theories and strategies for exploring storytelling in networked environments and the way social and cultural experiences continue to shape and inform the way we read, write and communicate. Grounded in contexts key to Communication Arts practice, the unit explores what it means to be digitally literate, the difference between newer and older storytelling environments, and the way networked technologies have re-shaped contemporary reading/writing practices. Students will complete a range of analytical and creative tasks that aim to build understanding of the dynamic nature of communication while further developing academic research and writing skills.

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 and essay 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 and present to peers in a supportive and constructive 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.

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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.

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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.

comparisons with the relationship between sound and text in film, and in the media more broadly.

102498.2 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

.....

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.

102501.2 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

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3725.1	Bachelor of Applied Leadership and Critical Thinking	6	6045.1	Diploma in Construction Technology/ Bachelor of Construction Technology	33
3753.1	Bachelor of Architectural Design	17	7034.1	Diploma in Engineering	170
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3506.9	Bachelor of Computer Science	46	7035.1	Diploma in Engineering Fast Track	171
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3762.2	Bachelor of Construction Management (Honours)	20	7163.1	Diploma in Information and Communications Technology	84
3697.5	Bachelor of Construction Management Studies (exit only)	22	7141.1	Diploma in Information and Communications Technology (Health Information Management) Extended	85
3692.5	Bachelor of Construction Technology	22	7164.1	Diploma in Information and Communications Technology (Health Information Management)(exit only)	81
3769.1	Bachelor of Data Science	50	6040.1	Diploma in Information and Communications Technology / Bachelor of Information Systems	82
3729.4	Bachelor of Design and Technology	24	7138.1	Diploma in Information and Communications Technology Extended - ICT	85
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3728.3	Bachelor of Engineering (Honours)/Bachelor of Business	164	7004.3	Diploma in Information and Communications Technology Fast Track	86
3690.4	Bachelor of Engineering Advanced (Honours)	163	7084.4	Diploma in Science (exit only)	234
3691.5	Bachelor of Engineering Science	166	7120.4	Diploma in Science Extended - Medical Science	235
3747.1	Bachelor of Entrepreneurship	51	7122.3	Diploma in Science Extended - Science	235
3746.2	Bachelor of Entrepreneurship (Games Design and Simulation)	52	7009.5	Diploma in Science Fast Track	236
3730.4	Bachelor of Industrial Design	25	6042.1	Diploma in Science/Bachelor of Medical Science	230
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