

School of Science

Electronic Undergraduate Handbook 2021

Western Sydney University

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

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About the School of Science 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 the units listed in the course section are provided 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. Details of textbooks, assessment methods, tutorial, group work and practical requirements are in the Learning Guide.

Current information on unit (subject) offerings can be found at: <https://hbook.westernsydney.edu.au/>.

Unit not listed?

If the unit you are looking for is not in the alphabetical units section, consult your course coordinator for details or search the Handbook for updated details on all units offered in the current year at <https://hbook.westernsydney.edu.au/>.

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.

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 and continuing postgraduate courses offered by the School of Science and the Graduate Research School. The next part contains details on current and continuing postgraduate specialisations in these courses, and the final part has details of all units within the courses and specialisations.

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

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 the 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 curriculum offerings can be found at:

<https://hbook.westernsydney.edu.au/>

Terminology changes

The University has had terminology changes from October 2021, for example:

- Course is now Program
- Unit is now Subject
- Specialisation is now Field of Study

For more information about the new terminology, please refer to https://wsu.service-now.com/staff?id=kb_article&sysparm_article=KB0017552

Contents

ADMINISTRATIVE		1
9017.2	University Foundation Studies Accelerated - 1 Term (WSTC)	1
9018.5	University Foundation Studies Standard - 2 Terms (WSTC)	1
9019.5	University Foundation Studies Standard - 2 Terms (WSTC)	2
9020.4	University Foundation Studies Extended - 3 Terms (WSTC)	2
SQ9051.1	Sequence - Health Science/Nursing Sequence - Foundation Studies Accelerated - 1 Term	4
SQ9053.1	Sequence - Arts Sequence - Foundation Studies	4
SQ9054.1	Sequence - Business Sequence - Foundation Studies	4
SQ9055.1	Sequence - Engineering Sequence - Foundation Studies	4
SQ9056.1	Sequence - Health Science/Nursing Sequence - Foundation Studies	4
SQ9057.1	Sequence - ICT Sequence - Foundation Studies	5
SQ9058.1	Sequence - Science Sequence - Foundation Studies	5
GRADUATE RESEARCH SCHOOL		6
3725.1	Bachelor of Applied Leadership and Critical Thinking	6
8083.2	Bachelor of Research Studies	7
8087.2	Bachelor of Research Studies (exit only)	12
8119.1	Bachelor of Research Studies (Planning)	12
SCHOOL OF SCIENCE		15
3757.1	Bachelor of Advanced Science	15
3758.1	Bachelor of Advanced Medical Science	16
3755.1	Bachelor of Medical Science	18
3673.1	Bachelor of Medical Science	19
3673.2	Bachelor of Medical Science	20
3682.3	Bachelor of Medical Science (Advanced)	21
3733.1	Bachelor of Medical Science (Forensic Mortuary Practice)	22
3733.2	Bachelor of Medical Science (Forensic Mortuary Practice)	23
3670.1	Bachelor of Natural Science (Animal Science)	25
3671.2	Bachelor of Natural Science (Environmental Management)	26
3672.1	Bachelor of Natural Science (Environment and Health)	28
3675.4	Bachelor of Science	31
3754.1	Bachelor of Science	33
3562.9	Bachelor of Science (Advanced Science)	35
3677.2	Bachelor of Science (Biological Sciences)	36
3676.4	Bachelor of Science (Chemistry)	38
3680.3	Bachelor of Science (Environmental Science)	40
3589.8	Bachelor of Science (Forensic Science)	42
3679.3	Bachelor of Science (Mathematical Science)	43
3678.2	Bachelor of Science (Nutrition and Food Science)	44
3681.2	Bachelor of Science (Zoology)	47
3638.6	Bachelor of Science - Pathway to Teaching (Secondary)	49
3736.1	Bachelor of Science - Pathway to Teaching (Primary/Secondary)	50
3756.1	Bachelor of Science (Pathway to Teaching Primary/Secondary)	51
3658.6	Bachelor of Science/Bachelor of Arts	52
3763.1	Bachelor of Science/Bachelor of Arts	57
4748.2	Bachelor of Science/Bachelor of Business	60
4748.3	Bachelor of Science/Bachelor of Business	64
3660.6	Bachelor of Science/Bachelor of International Studies	67
3764.1	Bachelor of Science/Bachelor of International Studies	71
3732.1	Bachelor of Science (Zoology)/Bachelor of Natural Science (Animal Science)	74
3726.1	Bachelor of Sustainable Agriculture and Food Security	75
3726.2	Bachelor of Sustainable Agriculture and Food Security	78
3726.3	Bachelor of Sustainable Agriculture and Food Security	79
6002.1	Diploma in Science/Bachelor of Medical Science	81
6002.2	Diploma in Science/Bachelor of Medical Science	83
6042.1	Diploma in Science/Bachelor of Medical Science	85
6003.1	Diploma in Science/Bachelor of Natural Science	86
6004.1	Diploma in Science/Bachelor of Science	88
6043.1	Diploma in Science/Bachelor of Science	91
7084.4	Diploma in Science (exit only)	93
7009.5	Diploma in Science Fast Track	94
7120.2	Diploma in Science Extended - Medical Science	96

7120.3	Diploma in Science Extended - Medical Science	96
7120.4	Diploma in Science Extended - Medical Science	97
7121.2	Diploma in Science Extended - Natural Science	98
7122.2	Diploma in Science Extended - Science	98
7122.3	Diploma in Science Extended - Science	99
7175.1	Undergraduate Certificate in Environmental Sustainability	99
7175.2	Undergraduate Certificate in Environmental Sustainability	100
A7236.1	The College Admission Pathway - WSTC Science Extended - Medical Science - Recent School Leavers	101
A7237.1	The College Admission Pathway - WSTC Science Extended - Medical Science - Non-Credentialed	101
A7238.1	The College Admission Pathway - WSTC Science Extended - Medical Science - International	102
A7239.1	The College Admission Pathway - WSTC Science Extended - Natural Science - School Leavers	102
A7240.1	The College Admission Pathway - WSTC Science Extended - Natural Science - Non-Credentialed	103
A7241.1	The College Admission Pathway - WSTC Science Extended - Natural Science - International Students	104
A7242.1	The College Admission Pathway - WSTC Science Extended - Science - School Leavers	104
A7243.1	The College Admission Pathway - WSTC Science Extended - Science - Non-Credentialed Students	106
A7244.1	The College Admission Pathway - WSTC Science Extended - Science - International Students	107
A7260.1	The College Admission Pathway - WSTC Science Extended - Medical Science - Recent School Leavers	109
A7261.1	The College Admission Pathway - WSTC Science Extended - Medical Science - Non-Credentialed	109
A7262.1	The College Admission Pathway - WSTC Science Extended - Medical Science - International	110
A7266.1	The College Admission Pathway - WSTC Science Extended - Medical Science - Recent School Leavers	110
A7267.1	The College Admission Pathway - WSTC Science Extended - Medical Science - Non-Credentialed	111
A7268.1	The College Admission Pathway - WSTC Science Extended - Medical Science - International	111
A7269.1	The College Admission Pathway - WSTC Science Extended - Science - Recent School Leavers	112
A7270.1	The College Admission Pathway - WSTC Science Extended - Science - Non-Credentialed Students	112
A7271.1	The College Admission Pathway - WSTC Science Extended - Science - International Students	113
KP3027.1	Key Program - General Program	114
KT3128.1	Key Program - Biological Science	117
KT3129.1	Key Program - Chemistry	118
KT3132.1	Key Program - Nutrition and Food Science	119
KT3134.1	Key Program - Zoology	120
KT3148.1	Key Program - Environmental Science	121
KT3149.1	Key Program - Forensic Science	122
KT3150.1	Key Program - Mathematical Sciences	122
M1041.1	Major - Indigenous Australian Studies	123
M1052.1	Major - Cultural and Social Analysis	124
M1053.1	Major - English	125
M1054.1	Major - History and Political Thought	127
M1055.1	Major - International Relations and Asian Studies	129
M1056.1	Major - Islamic Studies	130
M1058.1	Major - Philosophy	130
M1059.1	Major - Arabic	131
M1060.1	Major - Chinese	132
M1062.1	Major - Japanese	133
M1069.1	Major - Criminology and Criminal Justice	134
M1071.1	Major - Geography and Urban Studies	135
M1073.1	Major - Sociology	135
M1093.1	Major - Indonesian	136
M1097.1	Major - Anthropology	136
M1110.1	Major - Psychological Studies	137

Western Sydney University

M1113.1	Major - Creative Writing	137
M1119.1	Major - Linguistics	139
M1129.1	Major - International English	139
M1131.1	Major - Culture and Society	140
M1132.1	Major - International English	141
M1137.1	Major - History and Political Thought	141
M2510.1	Major - Economy and Markets	142
M2514.1	Major - Innovation and Change	143
M3046.1	Major - Aquatic Biology	143
M3047.1	Major - Chemistry	143
M3049.1	Major - Conservation Biology	144
M3052.1	Major - General Biology	144
M3054.1	Major - Mathematics	145
M3057.1	Major - Food Science & Technology	145
M3059.1	Major - Human Nutrition	146
M3060.1	Major - Medicinal Chemistry	146
M3061.1	Major - Anatomy and Physiology	147
M3062.1	Major - Biomedical Science	148
M3078.1	Major - Climate Change	150
M3079.1	Major - Conservation Biology	150
M3080.1	Major - General Biology	151
M3081.1	Major - Marine Biology	151
M3082.1	Major - Zoology	152
M3084.1	Major - Environmental Consulting	152
M3089.1	Major - Nutrition and Physiology	153
M3090.1	Major - Biochemistry and Molecular Biology	153
M3099.1	Major - Microbiology	153
M3100.1	Major - Forensic Chemistry	154
M3103.1	Major - Medicinal Chemistry	154
M3104.1	Major - Anatomy and Physiology	155
M3105.1	Major - Biomedical Science	156
M3106.1	Major - Forensic Mortuary Practice	156
M3120.1	Major - Crime Scene Investigation	157
M4011.1	Major - Environmental Consulting	157
M4012.1	Major - Crime Scene Investigation	158
M4013.1	Major - Natural Science	158
M4014.1	Major - Social Sciences	159
M4015.1	Major - Business	160
M4016.1	Major - Natural Science	161
M4017.1	Major - Social Sciences	162
M4018.1	Major - Business	163
MT2021.1	Major - Applied Finance	164
MT2022.1	Major - Economics	166
MT2024.1	Major - Human Resource Management	167
MT2025.1	Major - International Business	169
MT2026.1	Major - Management	170
MT2027.1	Major - Marketing	172
MT2035.1	Major - Hospitality Management	173
MT2036.1	Major - Sport Management	175
MT3006.1	Major - Biological Sciences	176
MT3007.1	Major - Chemistry	176
MT3008.1	Major - Mathematical Science	177
MT3014.1	Major - Zoology	177
MT3015.1	Major - Animal Science	179
MT3016.1	Major - Biology	181
MT3017.1	Major - Ecology	183
MT3018.1	Major - Environmental Futures	184
MT3019.1	Major - Microbiology	186
MT3021.1	Major - Nutrition and Food Science	188
MT3022.1	Major - Forensic Science	190
MT3023.1	Major - Forensic Chemistry	193
MT3024.1	Major - Forensic Biology	194
MT3025.1	Major - Mathematics	195
MT3026.1	Major - Applied Physics	197
MT3027.1	Major - Chemistry	199
MT3028.1	Major - Anatomy and Physiology	201
MT3029.1	Major - Medicinal Chemistry	203

MT3030.1	Major - Biomedical Science	204
MT3031.1	Major - Environmental Health	206
MT3032.1	Major - Data Science	208
MT3042.1	Major - Biology	210
MT3043.1	Major - Sustainable Environmental Futures	212
SM1049.1	Sub-major - Indigenous Australian Studies	214
SM1067.1	Sub-major - Education Studies	214
SM1070.1	Sub-major - Cultural and Social Analysis	215
SM1071.1	Sub-major - English	216
SM1072.1	Sub-major - History and Political Thought	218
SM1073.1	Sub-major - International Relations and Asian Studies	219
SM1076.1	Sub-major - Philosophy	220
SM1077.1	Sub-major - Arabic	221
SM1078.1	Sub-major - Chinese	222
SM1080.1	Sub-major - Japanese	223
SM1100.1	Sub-major - Education Studies	224
SM1112.1	Sub-major - Indonesian	224
SM1115.1	Sub-major - Psychological Studies	225
SM1116.1	Sub-major - Creative Writing	225
SM1119.1	Sub-major - Linguistics	226
SM1128.1	Sub-major - Immersion Language	227
SM1132.1	Sub-major - International English	228
SM1138.1	Sub-major - Culture and Society	228
SM1139.1	Sub-major - International English	229
SM1145.1	Sub-major - History and Political Thought	229
SM3038.1	Sub-major - Food Technology - Secondary Teaching	230
SM3039.1	Sub-major - Statistics	231
SM3041.1	Sub-major - Biochemistry and Molecular Biology	231
SM3042.1	Sub-major - Conservation Biology	231
SM3044.1	Sub-major - Microbiology	232
SM3045.1	Sub-major - Zoology	232
SM3046.1	Sub-major - Sustainable Environmental Management	232
SM3048.1	Sub-major - Climate Change	233
SM3049.1	Sub-major - Immunology and Cell Biology	233
SM3050.1	Sub-major - Physics	233
SM3062.1	Sub-major - Aquatic Environments	234
SM3063.1	Sub-major - Zoology	234
SM3079.1	Sub-major - Environmental Management	234
SM3089.1	Sub-major - Statistics	234
SM3113.1	Sub-major - Environmental Health	235
SM3114.1	Sub-major - Infectious Diseases	235

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 (one term).

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.

In order to transition to a Diploma or Bachelor course at Western, students must meet the course completion rules. In addition, students must meet the relevant GPA entry requirements and any other admission criteria, which may include English language proficiency requirements or the attainment of specific grades, for entry into their intended diploma or undergraduate degree.

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 (two terms) or one and a half years part-time (four terms).

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

In order to transition to a Diploma or Bachelor course at Western, students must meet the course completion rules. In addition, students must meet the relevant GPA entry requirements and any other admission criteria, which may include English language proficiency requirements or the attainment of specific grades, for entry into their intended diploma or undergraduate degree.

Students must complete one of the following sequences:

SQ9056.1 Health Science/Nursing Sequence - Foundation Studies

Please Note: As of 2018 the following Sequences are no longer on offer.

SQ9053.1	Arts Sequence - Foundation Studies
SQ9054.1	Business Sequence - Foundation Studies
SQ9055.1	Engineering Sequence - Foundation Studies
SQ9057.1	ICT Sequence - Foundation Studies
SQ9058.1	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 (three terms) or two years part-time (six terms).

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)
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Or

Arts/Business/ICT students

900091.2	Studies of Society (WSTC)
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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 Concurrent Degree Form. Link below:

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
102250.3	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**

102250.3 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**

102250.3 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

- 800218.2** Researcher Development 1: Reading, Writing, and the Business of Research
- 800219.2** Writing Beyond the Academy: Knowledge Translation and Public Audience Communication
- 800220.3** 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

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
- 102853.1 Cool Green Cities

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
- 102156.1 Disability in Context
- 102509.2 Computational Thinking across the STEM Curriculum
- 102161.2 Leading Change

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

200897.2	Advanced Analysis and Interpretation
200898.3	Seminal Papers in Business
200896.3	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
300599.5	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, Design and Built Environment**Disciplinary Content Units**

301002.3	Specialised Software Applications
301003.3	Sustainable Systems
300197.5	Power System Planning and Economics
301024.3	Advanced Numerical Methods in Engineering
300594.6	Advanced Structural Analysis
300595.5	Advanced Water Engineering
300604.5	Advanced Geotechnical Engineering
300939.4	Sustainability and Risk Engineering (PG)
301008.3	Advanced Composite Structures
301009.3	Advanced Timber Structures
301010.3	Advanced Applied Mechanics
301011.4	Advanced Highway Infrastructure
301012.3	Water Resources Systems Analysis
300515.6	Instrumentation and Measurement (PG)
301013.3	Advanced Statistical Hydrology
301015.3	Deep Foundations
301012.3	Water Resources Systems Analysis
300939.4	Sustainability and Risk Engineering (PG)
301018.3	Mechanical System Design
301017.3	Advanced Waste Management
300599.5	Advanced Robotics
301019.3	Advanced Dynamic Systems
300600.5	Mechatronic System Design
301020.3	Advanced Mobile Robotics
301021.3	Advanced Thermal and Fluid Engineering
301022.3	Advanced Computer Aided Engineering
301023.3	Advanced Computational Fluid Dynamics
301024.3	Advanced Numerical Methods in Engineering
300196.5	Personal Communication Systems
300197.5	Power System Planning and Economics
301025.3	Advanced Power Quality
301026.3	Advanced Smart Grids and Distributed Generation
300515.6	Instrumentation and Measurement (PG)
300601.5	Advanced Electrical Machines and Drives
300596.5	Advanced Signal Processing
300603.5	Advanced Control Systems
301019.3	Advanced Dynamic Systems
300173.5	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
301247.3 A Cosmic Perspective
301248.3 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
800195.2 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**

- 401168.1** Evidence Based Health Care
401085.2 Scholarship for Practice Change in Health Care
401086.1 Writing for Publication

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 2021 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
 401167 - Applied Research in Health Care
 101897 - Development for Equality
 400975 - Ethics in Health Research
 401162 - Experimental Design and Analysis (PG)
 800213 - Fieldwork in Complex and Hostile Places
 102336 - Functional Grammar
 301118 - Genomic Data Science
 102698 - Green Urbanscapes: Bio-Physical Functions and Services
 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
800218.2	Researcher Development 1: Reading, Writing, and the Business of Research
800219.2	Writing Beyond the Academy: Knowledge Translation and Public Audience Communication
800220.3	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

800218.2	Researcher Development 1: Reading, Writing, and the Business of Research
800219.2	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

800220.3	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

800218.2	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

800220.3	Researcher Development 2: Proposing and Justifying Research
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800219.2	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

800218.2	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

800219.2	Writing Beyond the Academy: Knowledge Translation and Public Audience Communication
101634.5	Planning and Environmental Regulation

2H session

800220.3	Researcher Development 2: Proposing and Justifying Research
101314.4	Urban Management Practice: Governance and Power in the City

Mid Year

Year 1

2H session

800218.2	Researcher Development 1: Reading, Writing, and the Business of Research
101636.3	Developing Sustainable Places

1H session

800219.2	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

800220.3	Researcher Development 2: Proposing and Justifying Research
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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

SCHOOL OF SCIENCE

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

Accreditation

MT3031 (Environmental Health) when undertaken within the Bachelor of Advanced Science has Conditional Provisional Accreditation with Environmental Health Australia

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

- 300831.5** 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

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 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 (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

300831.5	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 (as the elective unit) 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
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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

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

300831.5	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 (as the elective unit) 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**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 Medical Science**3673.1**

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

This degree comprises three major areas of study: biomedical science, medicinal chemistry and anatomy & physiology. The biomedical science major focuses on microbiology, biochemistry, molecular biology and aspects of health. The medicinal chemistry major focuses on chemistry and biochemistry, while the anatomy & physiology major focuses on anatomy, physiology and pharmacology. Graduates of this degree will find employment in areas such as medical research laboratories, hospital laboratories and in pathology laboratories and be well suited for positions in the pharmaceutical, medical sales and various research and quality control laboratories, as well as further study including research degrees, graduate pharmacy and graduate medicine degrees.

Study Mode

Three years full-time.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal
Hawkesbury Campus	Full Time	Internal

Accreditation

The Medicinal Chemistry major within the Bachelor of Medical Science is accredited by the Royal Australian Chemical Institute (RACI) for normal entry of a graduate to the Chartered Chemist qualification.

Admission

Assumed knowledge required: At least two of biology, chemistry, mathematics and physics.

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

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

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

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

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

Course Structure**Recommended Sequence****Start Year Intake**

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

Year 1**Autumn session**

300802.3	Biodiversity
300811.2	Scientific Literacy
300825.2	Introduction to Anatomy

Choose one of

300800.3	Essential Chemistry 1
300808.3	Introductory Chemistry

Please note unit 300800 is no longer available from 2017. Students should take unit 300808 Introductory Chemistry.

Spring session

300816.2	Cell Biology
300803.2	Essential Chemistry 2
300818.1	Introduction to Physiology

Choose one of

300830.3	Analysis of Change
300831.5	Quantitative Thinking
300672.3	Mathematics 1A
200263.6	Biometry

Year 2 - Year 3

Students must select one of the following Majors

Note: some units in the Medicinal Chemistry and Anatomy and Physiology majors will need to be taken at Campbelltown campus

M3060.1	Medicinal Chemistry
M3061.1	Anatomy and Physiology

M3062.1 Biomedical Science

Recommended Sequence

Mid Year Intake

The sequence of units for Year 1 for students Mid Year Intake is different for each Major. Please see the details under each Major in the links above.

Sub-major elective spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points) including the sub-majors listed below.

Sub-majors

SM3048.1 Climate Change
SM3044.1 Microbiology
SM3050.1 Physics

Sub-major elective spaces

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

Students who maintain a GPA of 5 or higher may use elective units toward obtaining an additional approved sub-major in Critical Thinking.

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

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

Bachelor of Medical Science

3673.2

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

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

This degree comprises three areas of major: biomedical science, medicinal chemistry and anatomy and physiology. The biomedical science major focuses on microbiology, biochemistry, molecular biology and aspects of health. The medicinal chemistry major focuses on chemistry and biochemistry, while the anatomy and physiology major focuses on anatomy, physiology and pharmacology.

Graduates of this degree will find employment in areas such as medical research laboratories, hospital laboratories and in pathology laboratories and be well suited for positions in the pharmaceutical, medical sales and various research and quality control laboratories, as well as further study including research degrees, graduate pharmacy and graduate medicine degrees.

Study Mode

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

Location

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

Accreditation

The Medicinal Chemistry major within the Bachelor of Medical Science is accredited by the Royal Australian Chemical Institute (RACI) for normal entry of a graduate to the Chartered Chemist qualification.

Admission

Assumed knowledge required: At least two of biology, chemistry, mathematics and physics.

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

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

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

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

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

Course Structure

Recommended Sequence

Start Year Intake

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

Year 1

Autumn session

300802.3 Biodiversity
300811.2 Scientific Literacy
301126.2 Concepts in Human Anatomy

Choose one of

300800.3 Essential Chemistry 1
300808.3 Introductory Chemistry

Please note unit 300800 is no longer available from 2017. Students should take unit 300808 Introductory Chemistry.

Spring session

300816.2	Cell Biology
300803.2	Essential Chemistry 2
300818.1	Introduction to Physiology

From Summer B 2019/2020 this unit replaced by 301353 Introduction to Physiology

301353.1	Introduction to Physiology
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Choose one of

300830.3	Analysis of Change
200263.6	Biometry
300672.3	Mathematics 1A
300831.5	Quantitative Thinking

Year 2 - Year 3

Students must select one of the following Majors

Note: some units in the Medicinal Chemistry and Anatomy and Physiology majors will need to be taken at Campbelltown campus

M3060.1	Medicinal Chemistry
M3061.1	Anatomy and Physiology
M3062.1	Biomedical Science

Mid Year Intake

The sequence of units for Mid Year Intake Year 1 students is different for each major. Please see the details under each major in the links above.

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points) including the sub-majors listed below.

Sub-majors

SM3048.1	Climate Change
SM3044.1	Microbiology
SM3050.1	Physics

Students who maintain a GPA of 5 or higher may use elective units toward obtaining an additional approved sub-major in Critical Thinking.

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

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

Elective Units

The following unit, 301161 Work Integrated Learning in Science, is a level 2 elective unit that gives students the opportunity to undertake a short work placement within a professional organisation. For further details please follow the link

301161.2	Work Integrated Learning in Science
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Bachelor of Medical Science (Advanced)**3682.3**

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

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

If you enjoy being constantly challenged and extended by your studies and are thinking about a career involving medical science or pharmaceutical research, then the Western Sydney University Medical Science (Advanced) degree is for you. This degree equips students with both specialised knowledge and enhanced inquiry skills in medicinal chemistry, biomedical science or anatomy and physiology. The Medical Science (Advanced) degree is designed to provide initial training for a range of careers in medical science while also allowing students to develop leadership and/or research skills. You can be partnered with experienced academic researchers and their research teams, and participate in the University's exciting research activities to facilitate your transition to postgraduate research studies or prepare you for a range of exciting career opportunities as high-achieving science graduates.

Study Mode

Three years full-time.

Location

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

Accreditation

The Medicinal Chemistry major for this degree is accredited by the Royal Australian Chemical Institute (RACI) for normal entry of a graduate to the Chartered Chemist qualification.

Admission

Assumed knowledge required: Minimum ATAR of 90. Students must maintain a Grade Point Average (GPA) of 5.0 or above to continue their enrolment in the course. If this GPA is not maintained they will be automatically transferred into the standard program after one warning (one semester of further study). Students in other Western Sydney University science courses who achieve a GPA of 5.0 or greater at the end of their first year of study may be admitted into the Advanced Science program by invitation if sufficient places are available.

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

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

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

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

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

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

Course Structure

Recommended Sequence

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

Note: some units in the Medicinal Chemistry and Anatomy and Physiology majors will need to be taken at Campbelltown campus.

Medicinal Chemistry

Students completing the Bachelor of Medical Science (Advanced) with a major in Medicinal Chemistry will complete the following course structure.

M3103.1 Medicinal Chemistry

Anatomy and Physiology

Students completing the Bachelor of Medical Science (Advanced) with a major in Anatomy and Physiology will complete the following course structure.

M3104.1 Anatomy and Physiology

Biomedical Science

Students completing the Bachelor of Medical Science (Advanced) with a major in Biomedical Science will complete the following course structure.

M3105.1 Biomedical Science

Bachelor of Medical Science (Forensic Mortuary Practice)

3733.1

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

This is a three year degree that combines traditional biomedical disciplines (biology, chemistry and biochemistry) with those of medical science (anatomy, physiology, pathology) and with a focus on forensic science in the senior years. Career opportunities include forensic mortuaries and forensic laboratories (as forensic technicians), and also in the funeral industry or as post mortem assistants.

This course will involve study at both Campbelltown and Hawkesbury campuses.

Study Mode

Three years full-time

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal
Hawkesbury Campus	Full Time	Internal

Admission

Assumed knowledge: 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

Students must have a National Police Certificate, and a First Aid Certificate. Students must comply with NSW Health vaccination requirements and be prepared to submit a completed Adult Immunisation Card to placement institutions.

Course Structure

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

This course will involve study at both Campbelltown and Hawkesbury campuses.

Recommended Sequence

Year 1

Autumn session

Campbelltown or Hawkesbury Campus

301126.2	Concepts in Human Anatomy
300811.2	Scientific Literacy
300806.2	Forensic Science

(Note: 300806 Forensic Science is only available at Hawkesbury campus)

Choose one of

- 300808.3** Introductory Chemistry
300800.3 Essential Chemistry 1

Please note unit 300800 is no longer available from 2017. Students should take unit 300808 Introductory Chemistry.

Spring session

Campbelltown or Hawkesbury Campus

- 200263.6** Biometry
300816.2 Cell Biology
300803.2 Essential Chemistry 2
301353.1 Introduction to Physiology

Note: Unit 301353 Introduction to Physiology replaces 300818 Introduction to Physiology from Autumn 2020

Year 2

Autumn session

Campbelltown or Hawkesbury Campus

- 300828.2** Physics 1
300936.2 Functional Proteins and Genes
300845.2 Genetics

Choose one of

- 300832.2** Analytical Chemistry
300843.2 Forensic and Environmental Analysis

Spring session

Campbelltown or Hawkesbury Campus

- 300817.2** Molecular Biology
300898.4 Appendicular Skeleton

(Note: 300898 Appendicular Skeleton is only available at Campbelltown campus)

- 301356.1** Pathological Basis of Disease

Note: Unit 301356 Pathological Basis of Disease replaces 300889 Pathological Basis of Disease from Autumn 2020

Summer session

Hawkesbury Campus

- 300935.3** Evidence and Crime Scene Management

Year 3

Autumn session

Campbelltown and Hawkesbury Campus Concurrently

Campbelltown campus

- 300894.3** Anatomy of the Thorax and Abdomen

Hawkesbury campus

- 300868.2** Forensic Chemistry
301120.3 Forensic Anthropology

- 301127.2** Mortuary Practice

Note: 301127 - Mortuary Practice will be offered from 2019.

Spring session

Campbelltown and Hawkesbury campus Concurrently

Campbelltown campus

- 300754.5** Neuroanatomy
300897.3 Anatomy of the Head and Neck

Hawkesbury campus

- 401170.3** Forensic Biology
301128.2 Advanced Mortuary Practice

Note: 301128 - Advanced Mortuary Practice will be offered from 2019

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

301251.1	Molecular Biology of the Cell
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Note: 301251.1 Molecular Biology of the Cell replaces 300817 Molecular Biology from Spring 2021

300754.5	Neuroanatomy
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(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
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301128.2 Advanced Mortuary Practice

Bachelor of Natural Science (Animal Science)

3670.1

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

Interactions between people and animals are increasing due to our ever-increasing reliance on animals for companionship and food production, whilst we also strive to understand the pressures placed on our unique wildlife. A Bachelor of Natural Science (Animal Science) will enable you to develop a deep understanding of these issues, through studies of animal behaviour, animal health and welfare, animal nutrition, animal production, animal reproduction, human-animal interactions, vertebrate biodiversity, and wildlife science. Throughout your studies, you will have access to diverse on-campus animal facilities including reptiles, native mammals, horses, sheep, cattle and deer and off-campus animal professionals and organisations such as wildlife parks, zoos, farms and horse studs. There are a range of majors (conservation biology, zoology) and sub-majors (environmental sustainability and management) offered in Natural Science and Science that can add diversity and/or focus to your degree, to enable your degree to be matched to your career aspirations. A variety of compelling and exciting career paths are available to graduates of this program, including international opportunities in the many fields of animal science.

Study Mode

Three years full-time.

Location

Campus	Attendance	Mode
Hawkesbury Campus	Full Time	Internal

Admission

Assumed Knowledge: Any two units of English and Mathematics.

Recommended Studies: One unit of Biology, Chemistry, Geography, Earth and Environmental Science or Agriculture.

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

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

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

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

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

Course Structure

Recommended Sequence

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

Start Year Intake

Year 1

Autumn session

300802.3	Biodiversity
300811.2	Scientific Literacy
300807.2	Human Animal Interactions
300813.2	Wildlife Studies

Spring session

300810.2	Resource Sustainability
300831.5	Quantitative Thinking
300801.2	Animal Science

And one elective

Year 2

Autumn session

300931.2	Integrated Science
300834.2	Animal Health and Welfare
300853.2	Animal Nutrition and Feeding

And one elective

Spring session

300932.2	Natural Science Research Methods
300835.2	Animal Reproduction

Choose one of

300836.2	Botany
300838.2	Comparative Physiology

And one elective

Year 3

Autumn session

300913.2	Field Project 1
300878.2	Animal Behaviour
300854.2	Animal Production

And one elective

Spring session

300914.2 Field Project 2
300861.2 Vertebrate Biodiversity

And two electives

Mid Year Intake**Year 1****Spring session**

300810.2 Resource Sustainability
300831.5 Quantitative Thinking
300801.2 Animal Science
300811.2 Scientific Literacy

Autumn session

300802.3 Biodiversity
300813.2 Wildlife Studies
300807.2 Human Animal Interactions

And one elective

Year 2**Spring session**

300932.2 Natural Science Research Methods
300835.2 Animal Reproduction

Choose one of

300836.2 Botany
300838.2 Comparative Physiology

And one elective

Autumn session

300913.2 Field Project 1
300834.2 Animal Health and Welfare
300853.2 Animal Nutrition and Feeding
300931.2 Integrated Science

Year 3**Spring session**

300914.2 Field Project 2
300861.2 Vertebrate Biodiversity

And two electives

Autumn session

300854.2 Animal Production
300878.2 Animal Behaviour

And two electives

Major and Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved major (80 credit points) or sub-major (40 credit points) including the majors and sub-majors listed below.

Majors

M3049.1 Conservation Biology

M3082.1 Zoology

Sub-majors

SM3062.1 Aquatic Environments
SM3048.1 Climate Change
SM3042.1 Conservation Biology
SM3045.1 Zoology

Major and Sub-major Elective Spaces

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

Students who maintain a GPA of 5 or higher may use elective units toward obtaining an additional approved sub-major in Critical Thinking.

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

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

Elective Units

The following unit, 301161 Work Integrated Learning in Science, is a level 2 elective unit that gives students the opportunity to undertake a short work placement within a professional organisation. For further details please follow the link

301161.2 Work Integrated Learning in Science

Bachelor of Natural Science (Environmental Management)**3671.2**

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

History has shown that if we don't effectively manage our environment, we will degrade it - possibly to the point where it can no longer sustain us. Environmental managers are concerned with ensuring the ecological sustainability of human development and minimising the size of our "ecological footprint". A Bachelor of Natural Science (Environmental Management) will develop your problem solving skills and equip you to work collaboratively with both community members and professional practitioners to develop innovative policy and strategies that address the increasingly complex causes of today's environmental problems. Issues include urban development, global climate change, persistent organic pollutants (POPs), decreasing biodiversity, deteriorating air and water quality, and sustainable use of natural resources. The major areas embodied within the program include assessment and management of aquatic environments water quality assessment and management; introduction to wildlife; sustainable land and resource use; Indigenous land management; environmental planning; climate change science; environmental regulation and policy; environmental risk management and urban development. The majors (aquatic and conservation biology) and sub-

majors (environmental sustainability and management) offered in Natural Science and Science can add diversity and/or focus to your degree, to help match your studies to your career aspirations.

Study Mode

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

Location

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

Admission

Assumed Knowledge: Any two units of Science (Biology or Chemistry recommended) and any two units of English.

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

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

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

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

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

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

Course Structure

Recommended Sequence

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

Note - At least 60 credit points must be at Level 3 or above (one elective must be at least a Level 3 unit)

Year 1

Start Year Intake

Autumn session

300802.3	Biodiversity
300811.2	Scientific Literacy
300813.2	Wildlife Studies
300824.2	Management of Aquatic Environments

Spring session

300810.2	Resource Sustainability
300831.5	Quantitative Thinking
300814.2	Water Quality Assessment and Management
300812.2	Understanding Landscape

Year 2

Autumn session

300931.2	Integrated Science
300840.2	Environmental Planning and Climate Change

And two electives

Spring session

300932.2	Natural Science Research Methods
300875.2	Landuse and the Environment
300841.2	Environmental Regulation and Policy
300959.2	Mangamai'bangawarra: Indigenous Science

Year 3

Autumn session

300913.2	Field Project 1
300858.2	Environmental Risk Management

And two electives

Spring session

300914.2	Field Project 2
300860.2	Urban Environment
300870.2	Water in the Landscape

And one elective

Mid Year Intake

Year 1

Spring session

300810.2	Resource Sustainability
300811.2	Scientific Literacy
300814.2	Water Quality Assessment and Management
300812.2	Understanding Landscape

Autumn session

300802.3	Biodiversity
300831.5	Quantitative Thinking
300813.2	Wildlife Studies
300824.2	Management of Aquatic Environments

Year 2

Spring session

300932.2	Natural Science Research Methods
300875.2	Landuse and the Environment
300841.2	Environmental Regulation and Policy

And one elective

Autumn session

- 300913.2** Field Project 1
300931.2 Integrated Science
300840.2 Environmental Planning and Climate Change

And one elective

Year 3**Spring session**

- 300914.2** Field Project 2
300860.2 Urban Environment
300870.2 Water in the Landscape
300959.2 Mangamai'bangawarra: Indigenous Science

Autumn session

- 300858.2** Environmental Risk Management

And three electives

Major and Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved major (80 credit points) or sub-major (40 credit points) including the majors and sub-majors listed below.

Note - At least 60 credit points must be at Level 3 or above (one elective must be at least a Level 3 unit)

Majors

- M3046.1** Aquatic Biology
M3049.1 Conservation Biology
M4011.1 Environmental Consulting

Sub-majors

- SM3062.1** Aquatic Environments
SM3048.1 Climate Change
SM3042.1 Conservation Biology

Sub-major Elective Spaces

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

Note - At least 60 credit points must be at Level 3 or above (one elective must be at least a Level 3 unit)

Students who maintain a GPA of 5 or higher may use elective units toward obtaining an additional approved sub-major in Critical Thinking.

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

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

Bachelor of Natural Science (Environment and Health)**3672.1**

The air we breathe, the water we drink, the food we eat, and the places we live, work and play all have major impacts on our health and well-being. Health scares such as swine/bird flu, obesity, cancers and asthma have all

been connected to our environmental conditions. A Bachelor of Natural Science (Environment and Health) will equip you to explore the diverse range of natural and built-environment challenges that confront us, from the mitigation of human health impacts of global climate change through to the more localised issues of air and water quality, waste management, food security, environmental noise and healthy communities. The major areas of study addressed within the program include air pollution; community studies; emergency management; environmental regulation and policy; environmental monitoring; environmental planning; environmental protection; epidemiology; food safety; noise, occupational environment; risk assessment; sustainable environmental management; toxicology; urban development and water pollution. A variety of fulfilling career paths are available to graduates of this program.

Study Mode

Three years full-time or six years part-time, in external mode.

Location

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

Accreditation

This course is currently accredited by Environmental Health Australia.

Admission

Assumed Knowledge: Any two units of Mathematics and Science or equivalent.

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

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

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

This course is not available to International Students.

Course Structure**Recommended Sequence**

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

In addition to the units below, unit 300655 Approved Industrial Experience must be completed to meet the requirements to graduate, despite students not being awarded credit points after the completion of the unit.

- 300655.3** Approved Industrial Experience

Start Year Intake**Full-time****Year 1****Autumn session**

300802.3	Biodiversity
300811.2	Scientific Literacy
300824.2	Management of Aquatic Environments
300808.3	Introductory Chemistry

Spring session

300810.2	Resource Sustainability
300831.5	Quantitative Thinking
300821.2	Environment and Health
300814.2	Water Quality Assessment and Management

Year 2**Autumn session**

300931.2	Integrated Science
300872.2	Epidemiology
300840.2	Environmental Planning and Climate Change
300844.2	General Microbiology

Spring session

300932.2	Natural Science Research Methods
300877.2	Toxicology
300841.2	Environmental Regulation and Policy
300859.2	Food Safety

Year 3**Autumn session**

300913.2	Field Project 1
300919.2	Occupational Health and Safety
300858.2	Environmental Risk Management
300852.2	Air Quality and Climate Change

Spring session

300914.2	Field Project 2
300860.2	Urban Environment
300867.2	Disease Prevention and Control
300880.2	Disaster and Emergency Management

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

300802.3	Biodiversity
300811.2	Scientific Literacy

Spring session

300831.5	Quantitative Thinking
300821.2	Environment and Health

Year 2**Autumn session**

300844.2	General Microbiology
300931.2	Integrated Science

Spring session

300810.2	Resource Sustainability
300877.2	Toxicology

Year 3**Autumn session**

300808.3	Introductory Chemistry
300840.2	Environmental Planning and Climate Change

Spring session

300932.2	Natural Science Research Methods
300841.2	Environmental Regulation and Policy

Year 4**Autumn session**

300824.2	Management of Aquatic Environments
300852.2	Air Quality and Climate Change

Quarter 3 session

300880.2	Disaster and Emergency Management
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Spring session

300859.2	Food Safety
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Year 5**Autumn session**

300872.2	Epidemiology
300919.2	Occupational Health and Safety

Spring session

300814.2	Water Quality Assessment and Management
300867.2	Disease Prevention and Control

Year 6**Autumn session**

300913.2	Field Project 1
300858.2	Environmental Risk Management

Spring session

300914.2	Field Project 2
300860.2	Urban Environment

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

300810.2	Resource Sustainability
300811.2	Scientific Literacy
300821.2	Environment and Health
300814.2	Water Quality Assessment and Management

Autumn session

300802.3	Biodiversity
300831.5	Quantitative Thinking
300824.2	Management of Aquatic Environments
300808.3	Introductory Chemistry

Year 2**Spring session**

300932.2	Natural Science Research Methods
300877.2	Toxicology
300859.2	Food Safety
300841.2	Environmental Regulation and Policy

Autumn session

300913.2	Field Project 1
300931.2	Integrated Science
300840.2	Environmental Planning and Climate Change
300844.2	General Microbiology

Year 3**Spring session**

300914.2	Field Project 2
300860.2	Urban Environment
300867.2	Disease Prevention and Control
300880.2	Disaster and Emergency Management

Autumn session

300872.2	Epidemiology
300919.2	Occupational Health and Safety
300858.2	Environmental Risk Management
300852.2	Air Quality and Climate Change

Part-time**Year 1****Spring session**

300821.2	Environment and Health
300811.2	Scientific Literacy

Autumn session

300802.3	Biodiversity
300831.5	Quantitative Thinking

Year 2**Spring session**

300810.2	Resource Sustainability
300877.2	Toxicology

Autumn session

300844.2	General Microbiology
300931.2	Integrated Science

Year 3**Spring session**

300932.2	Natural Science Research Methods
300841.2	Environmental Regulation and Policy

Autumn session

300808.3	Introductory Chemistry
300840.2	Environmental Planning and Climate Change

Year 4**Quarter 3 session**

300880.2	Disaster and Emergency Management
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Spring session

300859.2	Food Safety
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Autumn session

300824.2	Management of Aquatic Environments
300852.2	Air Quality and Climate Change

Year 5**Spring session**

300814.2	Water Quality Assessment and Management
300867.2	Disease Prevention and Control

Autumn session

300872.2	Epidemiology
300913.2	Field Project 1

Year 6**Spring session**

300914.2	Field Project 2
300860.2	Urban Environment

Autumn session

300919.2	Occupational Health and Safety
300858.2	Environmental Risk Management

Bachelor of Science

3675.4

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

Science asks questions about how the natural world works. It does so in a systematic, yet rigorously creative way based on inquiry and evidence for ideas. This approach has led to our current understanding of nature as being (in large part) systematic and predictable, and has underpinned major advances in human welfare. A Bachelor of Science will prepare you to take part in this process of enquiry, by both contributing to it and by using scientific knowledge to solve current problems. Students will learn core concepts and skills necessary for scientific inquiry: investigating the natural world, proposing and testing ideas by experimentation and observation; quantifying and modelling processes; communicating findings, thinking independently and critically. Students can enrol in a generalist Bachelor of Science or a Bachelor of Science in a specific discipline. Within each program students can select from a range of scientific disciplines to suit their interests, studying a core of basic science units to which other science units, and if desired, non-science units, can be added.

Study Mode

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

Location

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

Admission

Assumed Knowledge: At least two of Biology, Chemistry, Mathematics and Physics.

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

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

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

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

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

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

Course Structure

Qualification for this award requires the successful completion of 240 credit points with no less than 60 credit points at Level 3, made up as follows

- At least 160 credit points made up of science units, following the rules below
- A further 80 credit points of electives (which can be science units, or units from another discipline area such as Arts, Law or Business)

Core Components

Completion of the science units must comply with the following rules

Campus and semester(s) of offer for units are found under the active link for individual units

Level 1

Six Level 1 science foundation units must be completed, including

300811.2 Scientific Literacy

At least one mathematics or statistics foundation unit from the unit set below

300830.3 Analysis of Change
200263.6 Biometry
200025.3 Discrete Mathematics
300672.3 Mathematics 1A
300673.3 Mathematics 1B
300831.5 Quantitative Thinking

At least four other science foundation units from unit set below which must come from a further two science disciplines

Chemistry

300808.3 Introductory Chemistry

Or

300800.3 Essential Chemistry 1
300803.2 Essential Chemistry 2

Biology

300802.3 Biodiversity
300816.2 Cell Biology
300818.1 Introduction to Physiology

Computer Science

301031.3 Computer Algebra
300134.3 Introduction to Information Technology

300580.4 Programming Fundamentals**Physics**

- 300828.2** Physics 1
300829.2 Physics 2

Level 2 and 3

The completion of at least one of the following Majors

- M3090.1** Biochemistry and Molecular Biology
M3047.1 Chemistry
M3078.1 Climate Change
M3079.1 Conservation Biology
M4011.1 Environmental Consulting
M3100.1 Forensic Chemistry
M3080.1 General Biology
M3081.1 Marine Biology
M3054.1 Mathematics
M3099.1 Microbiology
M3089.1 Nutrition and Physiology
M3082.1 Zoology

The completion of at least ten Level 2 or 3 science units from the senior unit sets below with at least four at Level 3 (Units within your major count towards this requirement)

At least one of the Level 3 units must be a Capstone unit

Senior unit set Level 2

- 200028.4** Advanced Calculus
300832.2 Analytical Chemistry
300836.2 Botany
300930.2 Classical Physics and Advanced Technologies
300837.2 Climate Change Science
300838.2 Comparative Physiology
200030.5 Differential Equations
300839.2 Ecology
300843.2 Forensic and Environmental Analysis
300936.2 Functional Proteins and Genes
300845.2 Genetics
300847.2 Immunology
300899.2 Inorganic Chemistry
300931.2 Integrated Science
301033.2 Introduction to Data Science
200027.4 Linear Algebra
301032.2 Making Sense of Data
300959.2 Mangamai'bangawarra: Indigenous Science
300848.2 Metabolism
300833.3 Microbiology 1
300896.2 Microbiology 2
300817.2 Molecular Biology
300876.2 Organic Chemistry
300849.3 Physical Chemistry
300865.2 Plant Physiology
300980.2 Principles of Evolution
300979.2 Principles of Zoology

Note: Students may only choose one of 300832 Analytical Chemistry or 300843 Forensic and Environmental Analysis

Senior unit set Level 3

- 300907.2** Advanced Inorganic Chemistry
300926.2 Advanced Physical Chemistry
300857.1 Environmental Geochemistry
300912.2 Molecular Pharmacokinetics
300919.2 Occupational Health and Safety

Please note unit 300857 replaced by 301212 Science of the Anthropocene from 2019.

- 200193.3** Abstract Algebra
300925.2 Advanced Analytical Chemistry
300850.2 Advanced Cell Biology
300905.2 Advanced Immunology
300906.2 Advanced Organic Chemistry
200023.4 Analysis
300856.2 Ecosystem Carbon Accounting
301035.2 Environmental Informatics
300820.3 Genes, Genomics and Human Health
300918.4 Invertebrate Biology
200022.4 Mathematical Modelling
300826.3 Medical Microbiology
301034.2 Predictive Modelling
300923.2 Quantum Physics
301212.2 Science of the Anthropocene
300819.2 Topics in Physiology
300861.2 Vertebrate Biodiversity

Capstone units

- 300851.1** Advanced Physiology
300866.2 Analytical Microbiology
300909.2 Biological Adaptation to Climate Change
300855.2 Conservation Biology
300883.2 Laboratory Quality Management
300978.2 Marine and Aquatic Ecology
300927.3 Molecular Medicine
200045.4 Quantitative Project
300924.2 Science Research Project

Recommended Sequence**Elective Unit**

The following unit, 301161 Work Integrated Learning in Science, is a level 2 elective unit that gives students the opportunity to undertake a short work placement within a professional organisation. For further details please follow the link

- 301161.2** Work Integrated Learning in Science

Full-time Start-year Entry**Year 1****Autumn session**

- 300811.2** Scientific Literacy

Foundation science core

Foundation science core

And one elective

Spring session

Foundation science core

Foundation science core

Foundation science core

And one elective

Year 2**Autumn session**

Senior science core
 Senior science core
 Senior science core
 And one elective

Spring session

Senior science core
 Senior science core
 Senior science core
 And one elective

Year 3**Autumn session**

Senior science core
 Senior science core
 Level 3 elective
 And one elective

Spring session

Senior science core
 Senior science core
 Level 3 elective
 And one elective

Full-time Mid-year Entry**Year 1****Spring session**

300811.2 Scientific Literacy

Foundation science core
 Foundation science core
 And one elective

Autumn session

Foundation science core
 Foundation science core
 Foundation science core
 And one elective

Year 2**Spring session**

Any remaining Foundation core unit, or a Senior science core
 Senior science core
 Senior science core
 And one elective

Autumn session

Senior science core
 Senior science core
 Senior science core
 And one elective, or a Senior science core unit

Year 3**Spring session**

Senior science core
 Senior science core
 Level 3 elective
 And one elective

Autumn session

Senior science core
 Senior science core
 Level 3 elective
 And one elective

Major and Sub-major Elective Spaces

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

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

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

Elective Units

Elective units available University wide

301218.2 Global Citizenship and Engagement

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) when undertaken within the Bachelor of Science has Conditional Provisional Accreditation with Environmental Health Australia

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

300831.5	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
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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 Science (Advanced Science)

3562.9

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

If you enjoy being constantly challenged and extended by your studies and are thinking about a career involving scientific research, then the Western Sydney University Advanced Science degree is for you! This degree equips students with both specialised knowledge and enhanced inquiry skills in any one of a range of scientific disciplines. The Advanced Science degree is specifically designed to provide initial training for a range of scientific careers involving research and inquiry. You will be partnered with experienced academic researchers and their research teams and participate in the University's exciting research activities to facilitate your transition to a Masters Research degree or directly into a range of exciting career opportunities available to high-achieving science graduates. Further studies can be pursued (Masters Research or PhD degree) leading to a research or academic career.

Study Mode

Three years full-time.

Location

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

Accreditation

The Bachelor of Science (Advanced Science) is accredited by the Royal Australian Chemical Institute (RACI) for normal entry of a graduate to the Chartered Chemist qualification.

Admission

Minimum ATAR of 90. Students must maintain a Grade Point Average (GPA) of 5.0 or above to continue their enrolment in the course. If this GPA is not maintained they will be automatically transferred into the standard program after one warning (one semester of further study). Students in other Western Sydney University science courses who achieve a GPA of 5.0 or greater at the end of their first year of study may be admitted into the Advanced Science program by invitation if sufficient places are available.

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

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

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

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

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

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

Course Structure

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

Students in the Bachelor of Science (Advanced Science) must follow one of the study programs listed below.

Note: Not all key programs are available on all campuses, please check availability

KT3128.1	Biological Science
KT3129.1	Chemistry
KT3148.1	Environmental Science
KT3149.1	Forensic Science
KP3027.1	General Program
KT3150.1	Mathematical Sciences
KT3132.1	Nutrition and Food Science
KT3134.1	Zoology

Sub-major Elective Spaces

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

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

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

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

Elective Units

The following unit, 301161 Work Integrated Learning in Science, is a level 2 elective unit that gives students the opportunity to undertake a short work placement within a professional organisation. For further details please follow the link

[301161.2](#) Work Integrated Learning in Science

Bachelor of Science (Biological Sciences)

3677.2

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

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

The biological sciences are diverse, fascinating, rapidly changing, and essential to our understanding of living systems at scales ranging from the molecular to the global. They play a vital role in our understanding of the environment, as well as animals, plants and micro-organisms, and are essential to a wide range of contemporary industries. A Bachelor of Science (Biological Science) offers a solid foundation in the basic sciences, including biology, microbiology, biochemistry and environmental science. You will be equipped to enter government, industry or research-based employment in this area (e.g. Biotechnology companies, pathology, quality assurance, university and hospital laboratories, scientific sales and government agencies). You may also choose to maximise the biological science content of your degree or combine biological sciences with studies in another discipline.

Study Mode

Three years full-time.

Location

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

Admission

Assumed Knowledge: At least two units of Biology, Chemistry, Mathematics and Physics.

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

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

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

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

Overseas qualifications must be deemed by the Australian Education International - National Office of Overseas Skills

Recognition (AEI-NOOSR) to be equivalent to Australian qualifications in order to be considered by UAC and Western Sydney University.

Course Structure

Recommended Sequence

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

Note: At least 60 credit points must be at Level 3 or above.

Year 1

Autumn session

300802.3 Biodiversity
300811.2 Scientific Literacy

Choose one of

300800.3 Essential Chemistry 1
300808.3 Introductory Chemistry

Choose one of

200263.6 Biometry
300831.5 Quantitative Thinking

Spring session

300816.2 Cell Biology
300803.2 Essential Chemistry 2
300818.1 Introduction to Physiology

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

300817.2 Molecular Biology
300839.2 Ecology

Choose one of

300832.2 Analytical Chemistry
200033.5 Applied Statistics
300838.2 Comparative Physiology
200030.5 Differential Equations
300847.2 Immunology
300959.2 Mangamai'bangawarra: Indigenous Science
300848.2 Metabolism
300896.2 Microbiology 2
300876.2 Organic Chemistry
300979.2 Principles of Zoology

And one elective

Year 3

Autumn session

Choose at least one capstone unit in your final year of study. Capstone units are listed separately below.

Hawkesbury Campus

Choose at least two of

300850.2 Advanced Cell Biology
300856.2 Ecosystem Carbon Accounting
300820.3 Genes, Genomics and Human Health
300919.2 Occupational Health and Safety

Capstone units

300851.1 Advanced Physiology
300866.2 Analytical Microbiology
300929.1 Aquatic Ecology

And two electives (one elective must be a Level 3 unit)

Parramatta Campus

Choose at least two of

300850.2 Advanced Cell Biology
300820.3 Genes, Genomics and Human Health

Capstone unit

300851.1 Advanced Physiology

And two electives (one elective must be a Level 3 unit)

Campbelltown Campus

Choose at least two of

300850.2 Advanced Cell Biology
300820.3 Genes, Genomics and Human Health
300819.2 Topics in Physiology

Capstone unit

300851.1 Advanced Physiology

And two electives (one elective must be a Level 3 unit)

Spring session

Hawkesbury Campus

Choose at least two of

300905.2 Advanced Immunology
300918.4 Invertebrate Biology
300826.3 Medical Microbiology
300861.2 Vertebrate Biodiversity

Capstone units

300909.2 Biological Adaptation to Climate Change
300855.2 Conservation Biology
300883.2 Laboratory Quality Management
300927.3 Molecular Medicine
300924.2 Science Research Project

And two electives (one elective must be a Level 3 unit)

Parramatta Campus

Choose at least two of

300905.2 Advanced Immunology
300826.3 Medical Microbiology

Capstone units

300855.2 Conservation Biology
300924.2 Science Research Project

And two electives (one elective must be a Level 3 unit)

Campbelltown Campus

Choose at least two of

300905.2 Advanced Immunology
300826.3 Medical Microbiology

Capstone units

300927.3 Molecular Medicine
300924.2 Science Research Project

And two electives (one elective must be a Level 3 unit)

Major and Sub-major elective spaces

Elective units may be used toward obtaining an additional approved Major (80 credit points) or Sub-major (40 credit points) including the Majors and Sub-majors listed below.

Majors

M3090.1 Biochemistry and Molecular Biology
M3079.1 Conservation Biology
M4011.1 Environmental Consulting
M3080.1 General Biology
M3081.1 Marine Biology
M3099.1 Microbiology
M3082.1 Zoology

Sub-majors

SM3062.1 Aquatic Environments
SM3041.1 Biochemistry and Molecular Biology
SM3048.1 Climate Change
SM3042.1 Conservation Biology
SM3049.1 Immunology and Cell Biology
SM3044.1 Microbiology
SM3063.1 Zoology

Sub-major Elective Spaces

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

Students who maintain a GPA of 5 or higher may use elective units toward obtaining an additional approved Sub-major in Critical Thinking.

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

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

Elective Units

The following unit, 301161 Work Integrated Learning in Science, is a level 2 elective unit that gives students the opportunity to undertake a short work placement within a professional organisation. For further details please follow the link

301161.2 Work Integrated Learning in Science

Bachelor of Science (Chemistry)

3676.4

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

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

A Bachelor of Science (Chemistry) will prepare you to take part in a process of inquiry, by both contributing to it and by using scientific knowledge to solve current problems. The Chemistry program provides a strong background in the key topic areas of contemporary chemistry, including aspects of chemical theory in analytical, inorganic, organic and physical chemistry, with a strong emphasis on practical laboratory skills, and applications in contemporary research, industry and the environment. A research project is available to students in the final year of the degree preparing you for a professional career in a wide range of chemistry based industries. A double major or sub-major with biochemistry and molecular biology or microbiology will prepare you for a career in the pharmaceutical, health or food industries. Alternatively, graduates who elect studies in the physical sciences, mathematics or business are well placed for careers in the manufacturing industry.

Study Mode

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

Location

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

Accreditation

The Bachelor of Science (Chemistry) is accredited by The Royal Australian Chemical Institute (RACI).

Admission

Assumed Knowledge: At least two units of Biology, Chemistry, Mathematics and Physics.

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

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

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

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

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

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

Course Structure

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

Note: At least 60 credit points must be at Level 3 or above, including one elective unit

Recommended Sequence

Year 1

Autumn session

- 300828.2** Physics 1
300811.2 Scientific Literacy

Choose one of

- 300800.3** Essential Chemistry 1
300808.3 Introductory Chemistry

Choose one of

- 300802.3** Biodiversity
200263.6 Biometry
200025.3 Discrete Mathematics
300134.3 Introduction to Information Technology
300580.4 Programming Fundamentals
300831.5 Quantitative Thinking

Spring session

- 300803.2** Essential Chemistry 2

Choose one of

- 300830.3** Analysis of Change
300672.3 Mathematics 1A

Choose one of

- 300816.2** Cell Biology
200263.6 Biometry
300818.1 Introduction to Physiology
300673.3 Mathematics 1B
300829.2 Physics 2
300580.4 Programming Fundamentals

And one elective

Year 2

Autumn session

- 300832.2** Analytical Chemistry
300876.2 Organic Chemistry

Choose at least one of

- 200028.4** Advanced Calculus
300936.2 Functional Proteins and Genes
300845.2 Genetics
300833.3 Microbiology 1
300931.2 Integrated Science
301033.2 Introduction to Data Science
200027.4 Linear Algebra
300865.2 Plant Physiology

And one elective

Spring session

- 300899.2** Inorganic Chemistry
300849.3 Physical Chemistry

Choose at least one of

- 300838.2** Comparative Physiology
200030.5 Differential Equations
300839.2 Ecology
300847.2 Immunology
301032.2 Making Sense of Data
300959.2 Mangamai'bangawarra: Indigenous Science
300848.2 Metabolism
300896.2 Microbiology 2
300817.2 Molecular Biology

And one elective

Year 3

Autumn session

- 300907.2** Advanced Inorganic Chemistry

Choose one of

- 300926.2** Advanced Physical Chemistry
300912.2 Molecular Pharmacokinetics

And two electives (one elective must be a Level 3 unit)

Spring session

- 300925.2** Advanced Analytical Chemistry
300906.2 Advanced Organic Chemistry

Capstone unit: choose one of

- 300883.2** Laboratory Quality Management
300924.2 Science Research Project

And one elective

Major and Sub-major Elective Spaces

Majors

Elective units may be used toward obtaining an additional approved major (80 credit points) or sub-major (40 credit points) including the majors and sub-majors listed below.

Note: At least 60 credit points must be at Level 3 or above, including one elective unit

M3090.1	Biochemistry and Molecular Biology
M3080.1	General Biology
M3099.1	Microbiology

Sub-majors

SM3041.1	Biochemistry and Molecular Biology
SM3049.1	Immunology and Cell Biology
SM3050.1	Physics

Sub-major Elective Spaces

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

Note: At least 60 credit points must be at Level 3 or above, including one elective unit

Students who maintain a GPA of 5 or higher may use elective units toward obtaining an additional approved sub-major in Critical Thinking.

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

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

Elective Units

Note: At least 60 credit points must be at Level 3 or above, including one elective unit

The following unit, 301161 Work Integrated Learning in Science, is a level 2 elective unit that gives students the opportunity to undertake a short work placement within a professional organisation. For further details please follow the link

[301161.2](#) Work Integrated Learning in Science

Bachelor of Science (Environmental Science)

3680.3

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

Solving the world's environmental problems will require professionals who are trained in the sciences underlying these issues and who understand the wider human and social contexts of the challenges faced. A Bachelor of Science (Environmental Science) will open up a wide range of career opportunities for those with environmental, conservation and ecological interests. A solid grounding in the underlying science is essential for people intending to work in this field, who will need to integrate knowledge across a range of disciplines, to devise solutions spanning the scientific and social issues involved. Some of the key areas in this degree include conservation biology, environmental analysis, regulation and policy, environmental chemistry, climate change science, microbiology, spatial data analysis, environmental geochemistry, biodiversity and adaptation, and ecology

including marine and aquatic ecology. There are a range of majors (climate change and environmental management) and sub-majors (sustainability) offered in Science that can add diversity and/or focus to your degree. There are also a range of sub-majors from other disciplines such as the arts, business, humanities and social sciences to choose from, although these may require cross campus study and are subject to availability and timetabling.

Study Mode

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

Location

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

Admission

Assumed Knowledge: Any two units of English and any two units of Science (Biology or Chemistry recommended).

Recommended Studies: Geography

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

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

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

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

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

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

Course Structure

Recommended Sequence

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

Note: At least 60 credit points must be at Level 3 or above, including one elective unit

Start-year Intake

Year 1

Autumn session

300802.3 Biodiversity

300811.2 Scientific Literacy
300824.2 Management of Aquatic Environments

Choose one of

300808.3 Introductory Chemistry

From Spring 2017, students must choose 300808 Introductory Chemistry as 300800 Essential Chemistry 1 is no longer on offer.

300800.3 Essential Chemistry 1

Spring session

300816.2 Cell Biology
300803.2 Essential Chemistry 2
300810.2 Resource Sustainability

Choose one of

101646.3 Analysis of Spatial Data
300812.2 Understanding Landscape

Year 2

Autumn session

300837.2 Climate Change Science

Choose one of

300843.2 Forensic and Environmental Analysis
300833.3 Microbiology 1

Choose one of

200263.6 Biometry
300831.5 Quantitative Thinking

And one elective

Spring session

300839.2 Ecology
300841.2 Environmental Regulation and Policy

Choose one of

300836.2 Botany
300861.2 Vertebrate Biodiversity

And one elective

Year 3

Autumn session

300857.1 Environmental Geochemistry
300978.2 Marine and Aquatic Ecology

Please note unit 300857 replaced by 301212 Science of the Anthropocene from 2019.

300856.2 Ecosystem Carbon Accounting
301212.2 Science of the Anthropocene

And one elective

Spring session

300855.2 Conservation Biology
300918.4 Invertebrate Biology

300909.2 Biological Adaptation to Climate Change

(Capstone unit)

And one elective

Mid-year Intake

Year 1

Spring session

300816.2 Cell Biology
300803.2 Essential Chemistry 2
300810.2 Resource Sustainability

Choose one of

101646.3 Analysis of Spatial Data
300812.2 Understanding Landscape

Autumn session

300802.3 Biodiversity
300808.3 Introductory Chemistry
300824.2 Management of Aquatic Environments
300811.2 Scientific Literacy

Year 2

Spring session

300839.2 Ecology
300841.2 Environmental Regulation and Policy

Choose one of

300836.2 Botany
300861.2 Vertebrate Biodiversity

And one elective

Autumn session

300837.2 Climate Change Science

Choose one of

300843.2 Forensic and Environmental Analysis
300833.3 Microbiology 1

Choose one of

200263.6 Biometry
300831.5 Quantitative Thinking

And one elective

Year 3

Spring session

300909.2 Biological Adaptation to Climate Change
300855.2 Conservation Biology
300918.4 Invertebrate Biology

(Capstone unit)

And one elective

Autumn session

300857.1 Environmental Geochemistry
300978.2 Marine and Aquatic Ecology

Please note unit 300857 replaced by 301212 Science of the Anthropocene from 2019.

300856.2	Ecosystem Carbon Accounting
301212.2	Science of the Anthropocene

And one elective

Major and Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved major (80 credit points) or sub-major (40 credit points) including the majors and sub-majors listed below.

Note: At least 60 credit points must be at Level 3 or above, including one elective unit

Majors

M3078.1	Climate Change
M3079.1	Conservation Biology
M4011.1	Environmental Consulting
M3080.1	General Biology
M3081.1	Marine Biology
M3082.1	Zoology

Sub-majors

SM3062.1	Aquatic Environments
SM3048.1	Climate Change
SM3042.1	Conservation Biology
SM3079.1	Environmental Management
SM3044.1	Microbiology
SM3046.1	Sustainable Environmental Management
SM3063.1	Zoology

Sub-major Elective Spaces

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

Note: At least 60 credit points must be at Level 3 or above, including one elective unit

Students who maintain a GPA of 5 or higher may use elective units toward obtaining an additional approved sub-major in Critical Thinking.

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

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

Elective Units

Note: At least 60 credit points must be at Level 3 or above, including one elective unit

The following unit, 301161 Work Integrated Learning in Science, is a level 2 elective unit that gives students the opportunity to undertake a short work placement within a professional organisation. For further details please follow the link

301161.2	Work Integrated Learning in Science
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Bachelor of Science (Forensic Science)

3589.8

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

This is a three-year program that produces scientists who have a good background in the biological and chemical sciences. These are coupled with specialised expertise in forensic science including methods of forensic analysis, crime scene investigation, forensic photography, forensic investigation, crime and criminal justice and complex cases. Students may opt to further specialise in forensic biology, chemistry or microbiology by selecting additional electives or studies in a related or unrelated discipline. Career opportunities include forensic scientists, crime scene investigators, private investigators and consultants, police officers, drug analysts, researchers and academics, and specialised forensic science practitioners. The main employers of forensic scientists are State and Federal police services, State and Commonwealth Government Health Departments and analytical chemistry laboratories. Graduates will be versatile with a wide skills base with (depending on their choice of electives) potential for employment in analytical chemistry and microbiology, quality control and assurance, biochemistry and molecular biology, scientific research, education and the chemical industry.

Study Mode

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

Location

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

Admission

Assumed Knowledge: Students should have successfully completed at least two of the following units: Biology, Chemistry or Mathematics.

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

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

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

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

International students applying to the University through the International Office can find details of minimum English

proficiency requirements and acceptable proof on their website.

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

Course Structure

Recommended Sequence

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

Note: At least 60 credit points must be at Level 3 or above (one elective must be at least a Level 3 unit)

Year 1

Autumn session

300802.3	Biodiversity
300811.2	Scientific Literacy
300806.2	Forensic Science

Choose one of

300800.3	Essential Chemistry 1
300808.3	Introductory Chemistry

Spring session

300816.2	Cell Biology
300803.2	Essential Chemistry 2
300874.3	Digital Forensic Photography
200263.6	Biometry

Year 2

Autumn session

300843.2	Forensic and Environmental Analysis
300845.2	Genetics
301126.2	Concepts in Human Anatomy

And one elective

Spring session

300873.3	Crime Scene Investigation
300817.2	Molecular Biology
401171.2	Imaging Science

And one elective

Year 3

Autumn session

300981.2	Environmental Forensic Investigations
300868.2	Forensic Chemistry
301120.3	Forensic Anthropology

And one elective

Spring session

300911.2	Complex Forensic Studies
401170.3	Forensic Biology
300883.2	Laboratory Quality Management

And one elective

Major

M4012.1	Crime Scene Investigation
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Sub-majors

SM3041.1	Biochemistry and Molecular Biology
SM3049.1	Immunology and Cell Biology
SM3044.1	Microbiology

Sub-major Elective Spaces

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

Note: At least 60 credit points must be at Level 3 or above (one elective must be at least a Level 3 unit)

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

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

Elective Units

Note: At least 60 credit points must be at Level 3 or above (one elective must be at least a Level 3 unit)

The following unit, 301161 Work Integrated Learning in Science, is a level 2 elective unit that gives students the opportunity to undertake a short work placement within a professional organisation. For further details please follow the link

301161.2	Work Integrated Learning in Science
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Bachelor of Science (Mathematical Science)

3679.3

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

A Bachelor of Science (Mathematical Science) provides you with a strong background in key analytical techniques that have contemporary applications such as the treatment and interpretation of data and the modelling of real-world problems such as global warming. You will develop skills that allow you to model and solve real world problems using mathematical techniques and have the opportunity to specialise in mathematics, statistics or a combination of both. This will provide you with a wide range of career options in commercial and government institutions, which require highly-skilled problem-solvers. There are also a range of majors (e.g. Biology, chemistry) and sub-majors offered in Science that can add diversity and/or focus to your degree. There are also a range of sub-majors from other disciplines such as the arts, business, humanities and social sciences to choose from, although these may require cross campus study and are subject to availability and timetabling.

Study Mode

Three years full-time.

Location

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

Admission

Recommended Studies: Mathematics.

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

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

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

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

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

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

Course Structure**Recommended Sequence**

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

Year 1**Autumn session**

300672.3	Mathematics 1A
300811.2	Scientific Literacy
200025.3	Discrete Mathematics

Choose one of

300802.3	Biodiversity
300800.3	Essential Chemistry 1
300808.3	Introductory Chemistry
300828.2	Physics 1

Spring session

301031.3	Computer Algebra
300673.3	Mathematics 1B
200263.6	Biometry

Choose one of the following science foundation core units

300816.2	Cell Biology
300803.2	Essential Chemistry 2
300829.2	Physics 2

Year 2**Autumn session**

200027.4	Linear Algebra
200028.4	Advanced Calculus
300580.4	Programming Fundamentals

And one elective

Spring session

200030.5	Differential Equations
301033.2	Introduction to Data Science
301032.2	Making Sense of Data

And one elective

Year 3**Autumn session**

200193.3	Abstract Algebra
301034.2	Predictive Modelling
200023.4	Analysis

And one elective

Spring session

301035.2	Environmental Informatics
200022.4	Mathematical Modelling
200045.4	Quantitative Project

And one elective

Sub-major Elective Spaces

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

Students who maintain a GPA of 5 or higher may use elective units toward obtaining an additional approved sub-major in Critical Thinking.

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

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

Bachelor of Science (Nutrition and Food Science)**3678.2**

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

There is more to healthy eating than you realise. This program will help you understand nutrition and the science behind food. A Bachelor of Science (Nutrition and Food

Science) will prepare you for the future by developing the skills and knowledge to solve future challenges in nutrition and health, food quality and security. Students will develop a strong foundation in the biological and chemical sciences to needed underpin their studies, with majors in 'Human Nutrition' or 'Food Science and Technology' that will allow further specialisation. Career opportunities include community nutrition and health, health promotion, new food product development, quality assurance, and food technology secondary teaching. The program has strong industry and community links, well-equipped facilities including food processing pilot plant and modern kitchen facilities.

A major in Human Nutrition (M3059) investigates healthy eating as a vital part of good health. The major covers nutrition, food and health, with specialised studies in community nutrition, public health nutrition, human physiology, health promotion and food studies. The major prepares students for careers in community nutrition, health promotion and education, or work in a range of food and nutrition related businesses, including new product development of healthy foods. Students seeking to do postgraduate studies in Nutrition and Dietetics are advised to select a double major of Nutrition and Physiology (M3058) with the Human Nutrition major and complete further studies in metabolism and advanced physiology.

A major in Food Science and Technology (M3057) explores the science behind food, its preparation and manufacture. The major covers specialised topics in food processing, food safety, quality assurance, new product development, postharvest, packaging, microbiological and chemical analysis. The major prepares students for a wide range of careers in the food and beverage related industries, including food product development, quality assurance, management of the fresh food supply, food regulations, research and development.

Students seeking to be secondary Food Technology teachers are advised to select a sub-major in Education Studies (SM1100) in preparation for Master of Teaching in their fourth year of study. This program will satisfy the requirements of the NSW Institute of Teachers for first teaching areas of 'Food Technology' and 'Biology', with further teaching areas possible in 'chemistry', 'physics', or 'design and technology' depending on the electives selected.

Study Mode

Three years full-time.

Location

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

Admission

Assumed Knowledge: At least two of the following subjects - 2 unit Biology, 2 unit Chemistry or 2 unit Mathematics.

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

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

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

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

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

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

Course Structure

Recommended Sequence

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

Note 1: At least 60 credit points must be at Level 3 or above. Some students may need to take one elective as a Level 3 unit.

NOTE: The following requirement cannot be applied from March 2020 due to the ongoing Covid restrictions. If you have completed all other course requirements, please apply to graduate. Note 2: Students must also satisfactorily complete a minimum of ten weeks Approved Industrial Experience, the time can be accrued throughout the duration of your course. The work experience will be recognised by achieving Satisfactory grade in the final semester core unit 300655 - Approved Industrial Experience.

Note 3: Students completing the SM1100 - Education Studies Sub-major will need to complete two units from the sub major instead of two electives from the recommended sequence below.

SM1100.1 Education Studies

Start-year Intake

Year 1

Autumn session

300802.3	Biodiversity
300811.2	Scientific Literacy
300831.5	Quantitative Thinking

Choose one of

300800.3	Essential Chemistry 1
300808.3	Introductory Chemistry

Spring session

300816.2	Cell Biology
300803.2	Essential Chemistry 2
300805.2	Food Science 1

And one elective

Year 2

Autumn session

- 300936.2** Functional Proteins and Genes
300833.3 Microbiology 1
300842.3 Food Science 2
300933.2 Nutrition and Health 1

Spring session

- 300879.2** Experimental Foods

Human Nutrition Major

- 300934.2** Nutrition and Health 2
300818.1 Introduction to Physiology

And one elective

Food Science and Technology Major

- 300859.2** Food Safety
300869.2 Postharvest

And one elective

Year 3

Autumn session

- 300922.3** Quality Assurance and Food Analysis

Human Nutrition Major

- 300928.2** Consumer Issues in Nutrition
300871.2 Culinary Science

And one elective

Food Science and Technology major

- 300871.2** Culinary Science

Choose one of

- 300866.2** Analytical Microbiology
300843.2 Forensic and Environmental Analysis

Or Education Studies sub-major unit

And one elective

Spring session

- 300915.2** Food Product Development

NOTE: The following requirement cannot be applied from March 2020 due to the ongoing Covid restrictions. If you have completed all other course requirements, please apply to graduate. All students must satisfactorily complete the unit 300655 - Approved Industrial Experience (10 weeks), comprising a minimum of ten weeks Approved Industrial Experience.

- 300655.3** Approved Industrial Experience

Human Nutrition Major

- 300908.2** Applied Nutrition

- 300917.2** Global Nutrition, Food and Community

And one elective

Food Science and Technology Major

- 300904.2** Advanced Food Science and Technology

Choose one of

- 300883.2** Laboratory Quality Management

Or Education sub-major unit

And one elective

Students seeking to be secondary Food Technology teachers are also able to select a sub-major in Education Studies (SM1100) in preparation for Master of Teaching in the fourth year of study. This program will satisfy the requirements of the NSW Institute of Teachers for first teaching areas of 'Food Technology' and 'Biology', with further teaching areas possible in 'chemistry', 'physics', or 'design and technology' depending on the electives selected.

- SM1100.1** Education Studies

Recommended Sequence

Mid-year Intake

Year 1

Spring session

- 300816.2** Cell Biology
300811.2 Scientific Literacy
300831.5 Quantitative Thinking
300805.2 Food Science 1

Autumn session

- 300802.3** Biodiversity
300842.3 Food Science 2
300933.2 Nutrition and Health 1

Choose one of

- 300800.3** Essential Chemistry 1
300808.3 Introductory Chemistry

Year 2

Spring session

- 300879.2** Experimental Foods
300803.2 Essential Chemistry 2

Human Nutrition Major

- 300934.2** Nutrition and Health 2
300818.1 Introduction to Physiology

Food Science and Technology Major

- 300859.2** Food Safety
300869.2 Postharvest

Autumn session

- 300936.2** Functional Proteins and Genes
300833.3 Microbiology 1
300922.3 Quality Assurance and Food Analysis

And one elective

Year 3**Spring session**

- 300915.2** Food Product Development

Human Nutrition Major

- 300908.2** Applied Nutrition
300917.2 Global Nutrition, Food and Community

And one elective

Food Science and Technology major

- 300904.2** Advanced Food Science and Technology
300883.2 Laboratory Quality Management

Or Education sub-major unit

And one elective

Autumn session

- 300871.2** Culinary Science

NOTE: The following requirement cannot be applied from March 2020 due to the ongoing Covid restrictions. If you have completed all other course requirements, please apply to graduate. Students must also satisfactorily complete a minimum of 10 weeks Approved Industrial Experience, the time can be accrued throughout the duration of your course. The work experience will be recognised by achieving Satisfactory grade in the final semester core unit 300655 - Approved Industrial Experience.

- 300655.3** Approved Industrial Experience

Human Nutrition Major

- 300928.2** Consumer Issues in Nutrition

Food Science and Technology Major

Choose one of

- 300866.2** Analytical Microbiology
300843.2 Forensic and Environmental Analysis

Or Education Studies sub-major unit

And two electives

Students seeking to be secondary Food Technology teachers are also able to select a Sub-major in Education Studies (SM1100) in preparation for Master of Teaching in the fourth year of study. This program will satisfy the requirements of the NSW Institute of Teachers for first teaching areas of 'Food Technology' and 'Biology', with further teaching areas possible in 'chemistry', 'physics', or 'design and technology' depending on the electives selected.

- SM1100.1** Education Studies

Major and Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved major (80 credit points) or sub-major (40 credit points) including the majors and sub-majors listed below.

Note: At least 60 credit points must be at Level 3 or above. Some students may need to take one elective as a Level 3 unit.

Majors

- M3090.1** Biochemistry and Molecular Biology
M3057.1 Food Science & Technology
M3052.1 General Biology
M3059.1 Human Nutrition
M3099.1 Microbiology
M3089.1 Nutrition and Physiology

Sub-majors

- SM3041.1** Biochemistry and Molecular Biology
SM1067.1 Education Studies
SM3038.1 Food Technology - Secondary Teaching
SM3049.1 Immunology and Cell Biology
SM3044.1 Microbiology

Sub-major Elective Spaces

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

Note: At least 60 credit points must be at Level 3 or above. Some students may need to take one elective as a Level 3 unit.

Students who maintain a GPA of 5 or higher may use elective units toward obtaining an additional approved sub-major in Critical Thinking.

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

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

Bachelor of Science (Zoology)**3681.2**

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

A Bachelor of Science (Zoology) recognises the increased demand for scientific knowledge of how to conserve, protect and care for animals, including native wildlife, and companion and production animals. It will enable you to develop an in-depth scientific understanding of how animals function and interact with their environment; from their ecology and evolution; to physiology and biochemistry of tissues and major organs systems, as well as the structure and function of biomolecules and cells. The key learning and research areas embodied in this degree are ecology, evolution, physiology, growth, reproduction, genetics, and conservation biology. On-campus animal facilities include those for reptiles, small marsupials, small

rodents, horses, sheep and cattle, as well as over 1,000ha of native, rural and aquatic habitats.

Study Mode

Three years full-time.

Location

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

Admission

Assumed Knowledge: Any two units of English and any two units of Science.

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

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

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

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

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

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

Course Structure

Recommended Sequence

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

Year 1

Autumn session

300802.3	Biodiversity
300811.2	Scientific Literacy
300813.2	Wildlife Studies

Choose one of

300800.3	Essential Chemistry 1
300808.3	Introductory Chemistry

Spring session

300816.2	Cell Biology
300803.2	Essential Chemistry 2

300801.2 Animal Science

Choose at least one of

200263.6	Biometry
300831.5	Quantitative Thinking

Year 2

Autumn session

300834.2	Animal Health and Welfare
300936.2	Functional Proteins and Genes
300980.2	Principles of Evolution

And one elective

Spring session

300979.2	Principles of Zoology
300838.2	Comparative Physiology
300839.2	Ecology

And one elective

Year 3

Autumn session

300878.2	Animal Behaviour
300978.2	Marine and Aquatic Ecology

And two electives

Spring session

300855.2	Conservation Biology
300918.4	Invertebrate Biology
300861.2	Vertebrate Biodiversity

Choose one of the following capstone units

300909.2	Biological Adaptation to Climate Change
300924.2	Science Research Project

Major and Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved major (80 credit points) or sub-major (40 credit points) including the majors and sub-majors listed below.

Majors

M3090.1	Biochemistry and Molecular Biology
M3078.1	Climate Change
M3079.1	Conservation Biology
M3080.1	General Biology
M4011.1	Environmental Consulting
M3081.1	Marine Biology

Sub-majors

SM3062.1	Aquatic Environments
SM3041.1	Biochemistry and Molecular Biology
SM3048.1	Climate Change
SM3042.1	Conservation Biology
SM3049.1	Immunology and Cell Biology
SM3044.1	Microbiology

Sub-major Elective Spaces

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

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

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

Elective Units

The following unit, 301161 Work Integrated Learning in Science, is a level 2 elective unit that gives students the opportunity to undertake a short work placement within a professional organisation. For further details please follow the link

[301161.2](#) Work Integrated Learning in Science

Bachelor of Science - Pathway to Teaching (Secondary)

3638.6

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

The Bachelor of Science - Pathway to Teaching (Secondary) will allow you to focus on a science program of your choice and to structure your units of study to gain the necessary learning areas to satisfy the Board of Studies, Teaching and Educational Standards (BOSTES) discipline knowledge requirements for entry into teaching. It also gives the advantage of early access to Education Studies units through mandatory completion of an Education Studies submajor.

Graduates of this degree who complete the requisite units to meet the requirements of BOSTES will receive guaranteed entry into the Master of Teaching.

Study Mode

Three years full-time.

Location

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

Accreditation

The Bachelor of Science (Chemistry) is accredited by The Royal Australian Chemical Institute Incorporated (RACI).

Admission

At least two of Biology, Chemistry, Mathematics (excluding General Mathematics) and Physics at HSC level.

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

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

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

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

Course Structure

Qualifying for this award requires successful completion of 240 credit points within the following rules

Students completing the biological sciences program must follow the course structure for 3677 Bachelor of Science (Biological Science) and enrol in the Specialistaion MT3006 - Biological Science

MT3006.1 Biological Sciences

Students completing the chemistry program must follow the course structure for 3676 Bachelor of Science (Chemistry) and enrol in the Specialisation MT3007

MT3007.1 Chemistry

Students completing the mathematical sciences program must follow the course structure for 3679 Bachelor of Science (Mathematical Science) and enrol in the Specialistaion MT3008

MT3008.1 Mathematical Science

Students completing other science programs must follow the course structure for course 3675 Bachelor of Science

Sub-majors

In addition, all students must complete the mandatory 40 credit point sub-major in Education Studies (SM1100 Education Studies). Students must meet this requirement by choosing the units from SM1100 as electives within their Bachelor of Science program.

SM1100.1 Education Studies

Sub-major elective spaces

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

SM3039.1 Statistics

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

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

Bachelor of Science - Pathway to Teaching (Primary/Secondary)

3736.1

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

Graduates of this degree are eligible for direct entry into the Master of Teaching (Primary) or Master of Teaching (Secondary) via Transition to Teaching pathway.

Completion of both the Bachelor's and Master's courses provides a teaching qualification in Primary or Secondary schools. Eligible students will receive advice during their final study session in the Bachelor of Science - Pathway to Teaching (Primary/ Secondary) regarding how to accept an offer into the Postgraduate course to attain a teaching qualification.

The Bachelor of Science - Pathway to Teaching (Primary/ Secondary) is a three year degree specially designed to lead into the Master of Teaching (Primary/Secondary), an accredited postgraduate teaching qualification. The Bachelor of Science - Pathway to Teaching (Primary/ Secondary) component provides a focussed study in a Major content discipline of your choice as well as opportunity to study an Education Studies Major that develops understandings of contemporary education issues, teaching and learning.

As well as being equipped with all the necessary elements of an initial teacher qualification, Bachelor of Science - Pathway to Teaching (Primary/Secondary) graduates are prepared for a wide range of alternate employment opportunities with strong communication and people skills, creativity and capacity for independent thought, flexibility and adaptability in new situations, all increasingly demanded by employers.

Study Mode

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

Location

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

Accreditation

The Bachelor of Science (Chemistry) - Pathway to Teaching (Secondary) is accredited with RACI for normal entry of a graduate to the Chartered Chemist qualification.

Admission

Assumed Knowledge: At least two units of Biology, Chemistry, Mathematics and Physics

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

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

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

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

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

Course Structure

Qualifying for this award requires successful completion of 240 credit points within the following rules

Students completing the biological sciences program must follow the course structure for 3677 Bachelor of Science (Biological Science)

Students completing the chemistry program must follow the course structure for 3676 Bachelor of Science (Chemistry)

Students completing the mathematical sciences program must follow the course structure for 3679 Bachelor of Science (Mathematical Science)

Students completing other science programs must follow the course structure for 3675 Bachelor of Science

In addition, all students must complete the mandatory 40 credit point sub-major in Education Studies (SM1100 Education Studies).

Students must meet this requirement by choosing the units from SM1100 as electives within their Bachelor of Science program.

SM1100.1 Education Studies

Sub-major Elective Spaces

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

SM3089.1 Statistics

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

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

Bachelor of Science (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

Accreditation

MT3031 (Environmental Health) when undertaken within the Bachelor of Science has Conditional Provisional Accreditation with Environmental Health Australia

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

300831.5 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

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

Bachelor of Science/Bachelor of Arts

3658.6

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

This double degree program is designed for students whose interests span the Arts and Sciences. It will produce versatile graduates who can work across a range of academic and professional disciplines, including the opportunity to develop global perspectives and communication skills in an Asian language. In the Science area, students can design their own academic program within the Bachelor of Science course structure, which must include a science Major. This qualification in science can be combined with one of the following majors: International Relations and Asian Studies; Cultural and Social Analysis; English; History and Political Thought; Philosophy; Indigenous Australian Studies; Arabic, Chinese; Japanese;

Indonesian; Islamic studies: Linguistics; Psychological Studies.

Students in this double degree also have the opportunity to complete a semester of study overseas and receive advanced standing towards their BA majors and sub majors subject to WSU limits on advanced standing. Students are encouraged to do so but must discuss this with a BA course advisor first.

Study Mode

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

Location

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Full Time	Internal

Admission

Assumed Knowledge: At least two units of Biology, Chemistry, Mathematics and Physics.

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

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

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

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

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

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

Course Structure

Qualification for this award requires the successful completion of 320 credit points as prescribed in the structure below. Students who complete this award will graduate with a Bachelor of Science and a Bachelor of Arts.

Note: At least 60 credit points must be at Level 3 or above.

Students who wish to exit this double degree after their third year and graduate with a Bachelor of Science must have completed 240 credit points and completed the units as listed below in Years 1, 2 and 3.

Students completing the Bachelor of Science portion of this double degree must complete one of the Science majors listed in the first three years of study.

The conceptual design of this Bachelor of Science/Bachelor of Arts double degree is as follows.

Years 1 to 3

Students will complete 160 credit points of Bachelor of Science units as listed in the course structure below.

In Years 1 to 4 they will complete the four Bachelor of Arts (BA) core units, eight Bachelor of Arts Major units from one of the following Bachelor of Arts Majors and four Bachelor of Arts Sub-major units from one of the Sub-majors listed. For details of the relevant Arts Specialisations, refer to the current listing of Bachelor of Arts.

Bachelor of Arts Majors

- Arabic
- Chinese
- Cultural and Social Analysis
- English
- History and Political Thought
- Indigenous Australian Studies
- Indonesian
- International Relations and Asian Studies
- Islamic Studies
- Japanese
- Linguistics
- Philosophy
- Psychological Studies

Bachelor of Arts Sub-majors

- Arabic
- Chinese
- Cultural and Social Analysis
- English
- History and Political Thought
- Immersion Language
- Indigenous Australian Creative Expressions
- Indigenous Australian Studies
- Indigenous Economics
- Indonesian
- International Relations and Asian Studies
- Islamic Studies
- Japanese

- Linguistics
- Philosophy
- Psychological Studies

Arts Units

For details of the relevant Arts units, refer to the current listing of Bachelor of Arts.

Recommended Sequence

Science Component

Students must study 16 Science units following one of the following Key Programs

- Bachelor of Science (Biological Sciences)
- Bachelor of Science (Chemistry)
- Bachelor of Science (Mathematical Science)
- Bachelor of Science (called 'Science' in the unit set structure below).

Students following the Bachelor of Science Key Program must choose five Level 1 units within the following rules

- At least one mathematics or statistics unit
- Remaining units must cover at least two of the following scientific disciplines: chemistry, biology, physics, computing

Students following the Bachelor of Science (Science) Key Program must also complete at least one of the Science specialisations (majors)

M3090.1	Biochemistry and Molecular Biology
M3047.1	Chemistry
M3080.1	General Biology
M3054.1	Mathematics

And one Level 3 capstone unit.

Consult the handbook entry for the Bachelor of Science degree course for further details about the science majors.

Year 1

Autumn session

Choose two core Arts units from

100846.2	Analytical Reading and Writing
100958.2	Australia and the World
100960.2	Contemporary Society
100968.3	Texts and Traditions

Choose two science units relevant to the Key Program as follows

Biological Sciences Key Program

300802.3	Biodiversity
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Choose one of

300800.3	Essential Chemistry 1
300808.3	Introductory Chemistry

Chemistry Key Program

300800.3	Essential Chemistry 1
300828.2	Physics 1

Mathematical Science Key Program

300672.3	Mathematics 1A
200025.3	Discrete Mathematics

Science Key Program

Biochemistry and Molecular Biology specialisation

300802.3	Biodiversity
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Choose one of

300800.3	Essential Chemistry 1
300808.3	Introductory Chemistry

Chemistry specialisation

300800.3	Essential Chemistry 1
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And one science unit from the list below

General Biology specialisation

300802.3	Biodiversity
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And one science unit from the list below

Mathematics specialisation

300672.3	Mathematics 1A
200025.3	Discrete Mathematics

List of science units

300802.3	Biodiversity
300800.3	Essential Chemistry 1
300808.3	Introductory Chemistry
300828.2	Physics 1

Note: Choose one chemistry unit only

Spring session

Choose two core Arts units from

100846.2	Analytical Reading and Writing
100958.2	Australia and the World
100960.2	Contemporary Society
100968.3	Texts and Traditions

Choose two science units relevant to the Key Program as follows

Biological Sciences Key Program

300816.2	Cell Biology
300803.2	Essential Chemistry 2

Chemistry Key Program

300803.2	Essential Chemistry 2
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Choose one of

300816.2	Cell Biology
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- 300818.1 Introduction to Physiology
 300829.2 Physics 2
 300831.5 Quantitative Thinking

Mathematical Sciences Key Program

- 300673.3 Mathematics 1B
 200263.6 Biometry

Science Key Program

Biochemistry and Molecular Biology specialisation

- 300816.2 Cell Biology
 300803.2 Essential Chemistry 2

Chemistry specialisation

- 300803.2 Essential Chemistry 2

And one science unit from the list below

General Biology specialisation

- 300816.2 Cell Biology

And one science unit from the list below

Mathematics specialisation

- 300673.3 Mathematics 1B

And one science unit from the list below

List of science units

- 300816.2 Cell Biology
 300803.2 Essential Chemistry 2
 300818.1 Introduction to Physiology
 300829.2 Physics 2

Year 2

Autumn session

One Arts major or sub-major unit

Choose three science units relevant to the Key Program as follows

Biological Sciences Key Program

- 300936.2 Functional Proteins and Genes
 300845.2 Genetics
 300833.3 Microbiology 1

Chemistry Key Program

- 300876.2 Organic Chemistry
 300832.2 Analytical Chemistry

Choose one of

- 300830.3 Analysis of Change
 300672.3 Mathematics 1A

Mathematical Science Key Program

- 200028.4 Advanced Calculus
 301033.2 Introduction to Data Science
 200027.4 Linear Algebra

Science Key Program: Non-mathematics Specialisations

Biochemistry and Molecular Biology, Chemistry, General Biology specialisations

Choose at least one Level 1 mathematics unit from the list below in either semester in second year

Mathematics units

- 300830.3 Analysis of Change
 200263.6 Biometry
 200025.3 Discrete Mathematics
 300672.3 Mathematics 1A
 300831.5 Quantitative Thinking

Choose two science units if completing a mathematics unit in Autumn, or three science units otherwise

Science units

- 300832.2 Analytical Chemistry
 300936.2 Functional Proteins and Genes
 300930.2 Classical Physics and Advanced Technologies
 300845.2 Genetics
 300931.2 Integrated Science
 300833.3 Microbiology 1
 300876.2 Organic Chemistry
 300865.2 Plant Physiology

Science Key Program: Mathematics Specialisation

- 200027.4 Linear Algebra
 200028.4 Advanced Calculus

And one unit from the list below

- 300802.3 Biodiversity
 300800.3 Essential Chemistry 1
 300808.3 Introductory Chemistry
 300828.2 Physics 1

Spring session

One Arts major or sub-major unit

Choose three science units relevant to the Key Program as follows

Biological Sciences Key Program

- 300817.2 Molecular Biology

Choose one of

- 300838.2 Comparative Physiology
 300839.2 Ecology
 300847.2 Immunology
 300848.2 Metabolism
 300896.2 Microbiology 2

And choose one of

- 200263.6 Biometry
 300831.5 Quantitative Thinking

Chemistry Key Program

- 300899.2 Inorganic Chemistry
 300849.3 Physical Chemistry

Choose one of

300838.2	Comparative Physiology
200030.5	Differential Equations
300839.2	Ecology
301032.2	Making Sense of Data

Mathematical Science Key Program

200030.5	Differential Equations
301032.2	Making Sense of Data

Choose one of

300816.2	Cell Biology
300803.2	Essential Chemistry 2

Science Key Program: Non-mathematics Specialisations

Biochemistry and Molecular Biology, Chemistry, General Biology specialisations

Choose one mathematics unit and two science units or three science units (if mathematics unit completed in Autumn)

Science units

300838.2	Comparative Physiology
300839.2	Ecology
300847.2	Immunology
300899.2	Inorganic Chemistry
300848.2	Metabolism
300896.2	Microbiology 2
300817.2	Molecular Biology
300849.3	Physical Chemistry

Science Key Program: Mathematics Specialisation

200030.5	Differential Equations
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Choose two of

300838.2	Comparative Physiology
300839.2	Ecology
300899.2	Inorganic Chemistry
301032.2	Making Sense of Data
300849.3	Physical Chemistry

Year 3**Autumn session**

One Arts major or sub-major unit

Science capstone units: select at least one capstone unit in either semester of Year 3

Choose three science units relevant to the Key Program as follows

Biological Sciences Key Program

Choose three of

300850.2	Advanced Cell Biology
300820.3	Genes, Genomics and Human Health
300919.2	Occupational Health and Safety
300819.2	Topics in Physiology

Capstone units

300851.1	Advanced Physiology
300866.2	Analytical Microbiology
300978.2	Marine and Aquatic Ecology

Chemistry Key Program

300907.2	Advanced Inorganic Chemistry
300857.1	Environmental Geochemistry

Please note unit 300857 replaced by 301212 Science of the Anthropocene from 2019.

301212.2	Science of the Anthropocene
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Choose one of

300926.2	Advanced Physical Chemistry
300912.2	Molecular Pharmacokinetics

Mathematical Science Key Program

200193.3	Abstract Algebra
200023.4	Analysis
301034.2	Predictive Modelling

Science Key Program

Choose three of

300907.2	Advanced Inorganic Chemistry
300926.2	Advanced Physical Chemistry
300857.1	Environmental Geochemistry

Please note unit 300857 replaced by 301212 Science of the Anthropocene from 2019.

200193.3	Abstract Algebra
300850.2	Advanced Cell Biology
200023.4	Analysis
300820.3	Genes, Genomics and Human Health
301034.2	Predictive Modelling
301212.2	Science of the Anthropocene
300819.2	Topics in Physiology

Capstone units

300851.1	Advanced Physiology
300866.2	Analytical Microbiology
300978.2	Marine and Aquatic Ecology

Spring session

One Arts major or sub-major unit

Choose three science units as follows

Biological Sciences Key Program

Choose three of

300905.2	Advanced Immunology
300918.4	Invertebrate Biology
300861.2	Vertebrate Biodiversity

Capstone units

300909.2	Biological Adaptation to Climate Change
300855.2	Conservation Biology
300883.2	Laboratory Quality Management
300927.3	Molecular Medicine
300924.2	Science Research Project

Chemistry Key Program

300925.2	Advanced Analytical Chemistry
300906.2	Advanced Organic Chemistry

Capstone units

Choose one of

- 300883.2** Laboratory Quality Management
300924.2 Science Research Project

Mathematical Science Key Program

- 301035.2** Environmental Informatics
200022.4 Mathematical Modelling

Capstone unit

- 200045.4** Quantitative Project

Science Key Program

Choose three of

- 300925.2** Advanced Analytical Chemistry
300905.2 Advanced Immunology
300906.2 Advanced Organic Chemistry
301035.2 Environmental Informatics
300918.4 Invertebrate Biology
200022.4 Mathematical Modelling
300826.3 Medical Microbiology
300923.2 Quantum Physics
300861.2 Vertebrate Biodiversity

Capstone units

- 300909.2** Biological Adaptation to Climate Change
300855.2 Conservation Biology
300883.2 Laboratory Quality Management
300927.3 Molecular Medicine
200045.4 Quantitative Project
300924.2 Science Research Project

Year 4**Autumn session**

Four Bachelor of Arts major or sub-major units

Spring session

Four Bachelor of Arts major or sub-major units

Bachelor of Science/Bachelor of 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

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
300831.5	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 are as follows

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
300831.5	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
300992.3	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

4748.2

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

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

The Bachelor of Science/Bachelor of Business double degree program allows graduates to span both the commercial and scientific worlds in a way that single degree graduates cannot. The double degrees permit students to undertake multi-skilling, and offer diverse career paths providing high marketability in multiple areas of expertise. Graduates will have a solid grounding in a core science discipline such as Biological Sciences, Chemistry or Mathematics. This qualification in science is combined with one of the following Majors from the Bachelor of Business: Applied Finance; Economics; Hospitality Management; Human Resource Management; International Business; Management; Marketing; Sport Management. Graduates will be equipped to work as scientists, with a good understanding of business principles and practices. Alternatively, as Business graduates they will be well-prepared to work in science-based industries and institutions.

Study Mode

Four years full-time

Location

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

Accreditation

The Bachelor of Science (Chemistry) is accredited by The Royal Australian Chemical Institute (RACI). Major MT2021 - Applied Finance satisfies the educational requirements for membership of the Financial Services Institute of Australasia (Finsia). Major MT2024 - The School of

Business will seek to have the Bachelor of Business (Human Resource Management) accredited with the Australian Human Resources Institute (AHRI). Major MT2027 - Marketing satisfies the educational requirements for recognition as a Certified Practising Marketer and eligibility for membership of the Australian Marketing Institute (AMI).

Admission

Eligibility for admission to the Bachelor Science/Bachelor of Business is based on the following requirements

Bachelor of Science assumed knowledge: At least two of Biology, Chemistry, Mathematics, Physics at HSC level.

Bachelor of Business assumed knowledge: HSC Mathematics and any two units of HSC English.

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

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

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

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

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

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

Course Structure

Qualification for this award requires the successful completion of 320 credit points as prescribed in the structure below.

Students who complete this award will graduate with a Bachelor of Science and a Bachelor of Business.

Science Component

Students must complete 16 Science units following one of the following programs

Students following the Bachelor of Science (Science - General) program must complete all three parts listed below

Part 1: Five Level 1 units within the following rules

- At least one mathematics or statistics unit
- Remaining units must cover at least two of the scientific disciplines of chemistry, biology, physics, computing

Part 2: At least one of the Science specialisations/majors

M3090.1	Biochemistry and Molecular Biology
M3047.1	Chemistry
M3080.1	General Biology
M3054.1	Mathematics

Part 3: One level 3 capstone unit

Consult the handbook entry for the Bachelor of Science degree course for further details about the science majors.

Business Component

The four compulsory core units (40 credit points) that provide students with essential business knowledge are

200911.1	Enterprise Innovation and Markets
200909.2	Enterprise Law
200912.1	Enterprise Leadership
200910.2	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, 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
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Please note MT2035 Hospitality Management will no longer be available from mid year 2021.

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

Majors for Careers in Management

MT2024.1	Human Resource Management
MT2026.1	Management

Recommended Sequence

Use the links to each Bachelor of Business Major to see the Core, Professional and Major units required. Students should follow the recommended sequence below and not the recommended sequence listed under each Bachelor of Business Major.

This progression pattern is highly recommended. Students progress through both degrees at the same pace, completing two units in each degree in each semester.

Graduation after three years with either degree will be possible only if a student makes this decision at or before the end of Year 2 and amends their progression pattern as prescribed by an Academic Course Advisor.

Year 1

Autumn session

Bachelor of Business Units

- BBus core unit 1
- BBus core unit 2

Students must select Bachelor of Science units depending on their major

Biological Sciences

300802.3	Biodiversity
300808.3	Introductory Chemistry

Chemistry

300808.3	Introductory Chemistry
300828.2	Physics 1

Mathematics

300672.3	Mathematics 1A
200025.3	Discrete Mathematics

Science - General

Choose two of

300830.3	Analysis of Change
300802.3	Biodiversity
200025.3	Discrete Mathematics
300808.3	Introductory Chemistry
300672.3	Mathematics 1A
300828.2	Physics 1
300831.5	Quantitative Thinking

Spring session

Bachelor of Business Units

- BBus core unit 3
- BBus core unit 4

Students must select Bachelor of Science units depending on their major

Biological Sciences

300816.2	Cell Biology
300803.2	Essential Chemistry 2

Chemistry

300803.2	Essential Chemistry 2
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Choose one of

300816.2	Cell Biology
300818.1	Introduction to Physiology
300829.2	Physics 2
300831.5	Quantitative Thinking

Mathematics

300673.3 Mathematics 1B
200263.6 Biometry

Science - General

Choose two of

200263.6 Biometry
300816.2 Cell Biology
300803.2 Essential Chemistry 2
300818.1 Introduction to Physiology
300672.3 Mathematics 1A
300673.3 Mathematics 1B
300829.2 Physics 2
300831.5 Quantitative Thinking

Year 2**Autumn session****Bachelor of Business Units**

- BBus professional unit 1
- BBus major unit 1

Students must select Bachelor of Science units depending on their major

Biological Sciences

300936.2 Functional Proteins and Genes
300833.3 Microbiology 1

Chemistry

Choose on of

300832.2 Analytical Chemistry
300876.2 Organic Chemistry

Choose one of

300830.3 Analysis of Change
300672.3 Mathematics 1A

Mathematics

300580.4 Programming Fundamentals

Choose one of

300802.3 Biodiversity
300808.3 Introductory Chemistry
300134.3 Introduction to Information Technology
300828.2 Physics 1

Science - General

Choose one of

200028.4 Advanced Calculus
300832.2 Analytical Chemistry
300936.2 Functional Proteins and Genes
300845.2 Genetics
300931.2 Integrated Science
301033.2 Introduction to Data Science
200027.4 Linear Algebra
300833.3 Microbiology 1
300876.2 Organic Chemistry

300865.2 Plant Physiology

Choose one of

300830.3 Analysis of Change
300802.3 Biodiversity
200025.3 Discrete Mathematics
300808.3 Introductory Chemistry
300672.3 Mathematics 1A
300828.2 Physics 1
300831.5 Quantitative Thinking

Spring session**Bachelor of Business Units**

- BBus professional unit 2
- BBus major unit 2

Students must select Bachelor of Science units depending on their major

Biological Sciences

300817.2 Molecular Biology

Choose one of

200263.6 Biometry
300831.5 Quantitative Thinking

Chemistry

Choose one of

300899.2 Inorganic Chemistry
300849.3 Physical Chemistry

Choose one of

300816.2 Cell Biology
300818.1 Introduction to Physiology
300134.3 Introduction to Information Technology
300829.2 Physics 2
300580.4 Programming Fundamentals

Mathematics

Choose one of

300816.2 Cell Biology
300803.2 Essential Chemistry 2
300818.1 Introduction to Physiology
300134.3 Introduction to Information Technology
301033.2 Introduction to Data Science
300829.2 Physics 2

Science - General

Choose two of

300838.2 Comparative Physiology
200030.5 Differential Equations
300839.2 Ecology
300847.2 Immunology
300899.2 Inorganic Chemistry
301032.2 Making Sense of Data
300848.2 Metabolism
300896.2 Microbiology 2
300817.2 Molecular Biology
300849.3 Physical Chemistry

Year 3**Autumn session****Bachelor of Business Units**

- BBus major unit 3
- BBus major unit 4

Students must select Bachelor of Science units depending on their major

Biological Sciences

300845.2 Genetics

Choose one of

300931.2 Integrated Science
300865.2 Plant Physiology

Chemistry

Choose one of

300832.2 Analytical Chemistry
300876.2 Organic Chemistry

Choose one of

300936.2 Functional Proteins and Genes
300845.2 Genetics
300931.2 Integrated Science
300833.3 Microbiology 1
300865.2 Plant Physiology

Mathematics

200028.4 Advanced Calculus
200027.4 Linear Algebra

Science - General

Choose two of

200028.4 Advanced Calculus
300832.2 Analytical Chemistry
300936.2 Functional Proteins and Genes
300845.2 Genetics
301033.2 Introduction to Data Science
200027.4 Linear Algebra
300931.2 Integrated Science
300833.3 Microbiology 1
300876.2 Organic Chemistry
300865.2 Plant Physiology

Spring session**Bachelor of Business Units**

- BBus major unit 5
- BBus major unit 6

Students must select Bachelor of Science units depending on their major

Biological Sciences

Choose one of

300838.2 Comparative Physiology
300839.2 Ecology

300847.2 Immunology
300848.2 Metabolism
300896.2 Microbiology 2

Choose one of

300905.2 Advanced Immunology
300855.2 Conservation Biology
300826.3 Medical Microbiology

Chemistry

Choose one of

300899.2 Inorganic Chemistry
300849.3 Physical Chemistry

Choose one of

300925.2 Advanced Analytical Chemistry
300906.2 Advanced Organic Chemistry

Mathematics

200022.4 Mathematical Modelling
301032.2 Making Sense of Data

Science - General

Choose one of

300838.2 Comparative Physiology
200030.5 Differential Equations
300839.2 Ecology
300847.2 Immunology
300899.2 Inorganic Chemistry
301032.2 Making Sense of Data
300848.2 Metabolism
300896.2 Microbiology 2
300817.2 Molecular Biology
300849.3 Physical Chemistry

Choose one of

300925.2 Advanced Analytical Chemistry
300905.2 Advanced Immunology
300906.2 Advanced Organic Chemistry
300855.2 Conservation Biology
301035.2 Environmental Informatics
200022.4 Mathematical Modelling
300826.3 Medical Microbiology

Year 4**Autumn session****Bachelor of Business Units**

- BBus professional unit 3
- BBus major unit 7

Students must select Bachelor of Science units depending on their major

Biological Sciences

Choose two of

300850.2 Advanced Cell Biology
300820.3 Genes, Genomics and Human Health
300819.2 Topics in Physiology

Chemistry

300907.2 Advanced Inorganic Chemistry

Choose one of

300926.2 Advanced Physical Chemistry
300912.2 Molecular Pharmacokinetics

Mathematics

Choose two of

200193.3 Abstract Algebra
200023.4 Analysis
301034.2 Predictive Modelling

Science - General

Choose two of

200193.3 Abstract Algebra
300850.2 Advanced Cell Biology
300907.2 Advanced Inorganic Chemistry
300926.2 Advanced Physical Chemistry
200023.4 Analysis
300820.3 Genes, Genomics and Human Health
301034.2 Predictive Modelling
300819.2 Topics in Physiology

Or

300912.2 Molecular Pharmacokinetics

Note: Students may only choose one unit from 300926 - Advanced Physical Chemistry or 300912 - Molecular Pharmacokinetics

Spring session**Bachelor of Business Units**

- BBus professional unit 4
- BBus major unit 8

Students must select Bachelor of Science units depending on their major

Biological Sciences

Choose two of

300927.3 Molecular Medicine

(Capstone unit)

300924.2 Science Research Project

(Capstone unit)

300855.2 Conservation Biology

(Capstone unit)

300905.2 Advanced Immunology
300826.3 Medical Microbiology

Chemistry

Choose two of

300924.2 Science Research Project

(Capstone unit)

300883.2 Laboratory Quality Management

(Capstone unit)

300925.2 Advanced Analytical Chemistry
300906.2 Advanced Organic Chemistry

Mathematics

200045.4 Quantitative Project

(Capstone unit)

301035.2 Environmental Informatics

Science - General

Choose two of

300855.2 Conservation Biology

(Capstone unit)

300924.2 Science Research Project

(Capstone unit)

300883.2 Laboratory Quality Management

(Capstone unit)

200045.4 Quantitative Project

(Capstone unit)

300925.2 Advanced Analytical Chemistry
300905.2 Advanced Immunology
300906.2 Advanced Organic Chemistry
200025.3 Discrete Mathematics
301035.2 Environmental Informatics
300826.3 Medical Microbiology
300927.3 Molecular Medicine

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

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

300831.5	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
MT3025.1	Mathematics
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
MT3032.1	Data Science
MT3017.1	Ecology
MT3018.1	Environmental Futures
MT3024.1	Forensic Biology
MT3023.1	Forensic Chemistry
MT3019.1	Microbiology

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
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Please note MT2035 Hospitality Management will no longer be available from mid year 2021.

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

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

300831.5	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**3660.6**

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

This double degree program is designed for students who want to combine their interest and expertise in science with a sophisticated understanding of international issues and systems. This will equip them to work in globalised science-based professions and industries. In the Science area, students can design their own academic program within the Bachelor of Science course structure, which must include a science major. This will be combined with a degree in International Studies that examines the relationships of societies, cultures, languages and systems of government within the international system. It develops students' capacity to analyse the historical development of relations among nation states and contemporary political, social and cultural issues, such as globalisation, transnationalism and migration. Students complete a major in International Relations and Asian Studies, and a sub-major in any Asian language, Arabic, Chinese, Indonesian, or Japanese.

Students in this double degree also have the opportunity to complete a semester of study overseas and receive advanced standing towards their BA majors and sub majors subject to Western Sydney University limits on advanced standing. Students are encouraged to do so but must discuss this with a BA course advisor first.

Study Mode

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

Location

Campus	Attendance	Mode
Parramatta Campus - Victoria Road	Full Time	Internal

Accreditation

The Bachelor of Science (Chemistry)/Bachelor of International Studies is accredited by The Royal Australian Chemical Institute Incorporated (RACI).

Admission

The following sets of Assumed Knowledge and Recommended Studies apply.

Bachelor of Science

Assumed knowledge: At least two of Biology, Chemistry, Mathematics, Physics

Bachelor of International Studies

Assumed knowledge: Two units of HSC English at Band 4

Recommended studies: HSC English Standard, or equivalent

<https://westernsydney.uac.edu.au/ws/>

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

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

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

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

Course Structure

Qualification for this award requires the successful completion of 320 credit points as prescribed in the structure below. Students who complete this award will graduate with a Bachelor of Science and a Bachelor of International Studies.

Note: At least 60 credit points must be at Level 3 or above.

Students who wish to exit this double degree after their third year and graduate with a Bachelor of Science must have completed 240 credit points and completed the units as listed below in Years 1, 2 and 3.

Students completing the Bachelor of Science portion of this double degree must complete one of the Science majors listed, in the first three years of study.

The conceptual design of this BSc/BIS double degree is as follows:

Years 1 to 3

Students complete 160 credit points of Bachelor of Science units as listed in the course structure below.

In Years 1 to 4 students complete the four Bachelor of Science/Bachelor of International Studies core units and 12 Bachelor of International Studies units as offered on Parramatta campus only.

The International Relations and Asian Studies major and the following sub-majors are available in the Bachelor of International Studies course

- Arabic
- Chinese
- Indonesian
- Japanese

- Immersion Language

Bachelor of International Studies Units

For details of the relevant International Studies units, refer to the current listing of Bachelor of International Studies, course code 1658 - Bachelor of International Studies. Continuing students should refer to the earlier versions of 1658 -Bachelor of International Studies.

Science Component

Students must study 16 Science units following one of the following programs

- Bachelor of Science (Biological Sciences)
- Bachelor of Science (Chemistry)
- Bachelor of Science (Mathematical Science)
- Bachelor of Science (called 'Science' in the unit set structure below)

Students following the Bachelor of Science program must choose five Level 1 units within the following rules

- At least one mathematics or statistics unit
- Remaining units must cover at least two of the following scientific disciplines: chemistry, biology, physics, computing

Students following the Bachelor of Science (Science) program must also complete at least one of the Science specialisations (majors)

M3090.1	Biochemistry and Molecular Biology
M3047.1	Chemistry
M3080.1	General Biology
M3054.1	Mathematics

And one Level 3 capstone unit.

Consult the handbook entry for the Bachelor of Science degree course for further details about the science majors.

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

Choose two core Arts units from the following

100846.2	Analytical Reading and Writing
100958.2	Australia and the World
100960.2	Contemporary Society
100968.3	Texts and Traditions

Choose two science units appropriate for your science major as follows

Biological Sciences

300802.3	Biodiversity
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Choose one of

300800.3 Essential Chemistry 1
300808.3 Introductory Chemistry

Chemistry

300800.3 Essential Chemistry 1
300828.2 Physics 1

Mathematical Science

200025.3 Discrete Mathematics
300672.3 Mathematics 1A

Science

Biochemistry and Molecular Biology specialisation

300802.3 Biodiversity

Choose one of

300800.3 Essential Chemistry 1
300808.3 Introductory Chemistry

Chemistry specialisation

300800.3 Essential Chemistry 1

And one science unit from the list below

General Biology specialisation

300802.3 Biodiversity

And one science unit from the list below

Mathematics specialisation

200025.3 Discrete Mathematics
300672.3 Mathematics 1A

List of science Units

300802.3 Biodiversity
300800.3 Essential Chemistry 1
300808.3 Introductory Chemistry
300828.2 Physics 1

*Students are to select only one Chemistry unit

Spring session

Choose two Core Arts units from the list below

100846.2 Analytical Reading and Writing
100958.2 Australia and the World
100960.2 Contemporary Society
100968.3 Texts and Traditions

Choose two science units appropriate for your science major as follows

Biological Sciences

300816.2 Cell Biology
300803.2 Essential Chemistry 2

Chemistry

300803.2 Essential Chemistry 2

Choose one of

300816.2 Cell Biology

300818.1 Introduction to Physiology
300829.2 Physics 2
300831.5 Quantitative Thinking

Mathematical Sciences

300673.3 Mathematics 1B
200263.6 Biometry

Science

Biochemistry and Molecular Biology specialisation

300816.2 Cell Biology
300803.2 Essential Chemistry 2

Chemistry specialisation

300803.2 Essential Chemistry 2

And one science unit from the list below

General Biology specialisation

300816.2 Cell Biology

And one science unit from the list below

Mathematics specialisation

300673.3 Mathematics 1B

And one science unit from the list below

List of science units

300816.2 Cell Biology
300803.2 Essential Chemistry 2
300818.1 Introduction to Physiology
300829.2 Physics 2

Year 2

Autumn session

One compulsory Level 1 BIS major unit

Choose three science units appropriate for your science major as follows

Biological Sciences

300936.2 Functional Proteins and Genes
300845.2 Genetics
300833.3 Microbiology 1

Chemistry

300832.2 Analytical Chemistry
300876.2 Organic Chemistry

Choose one of

300830.3 Analysis of Change
300672.3 Mathematics 1A

Mathematical Science

200028.4 Advanced Calculus
301033.2 Introduction to Data Science
200027.4 Linear Algebra

Science: Non-mathematics Specialisations

Biochemistry and Molecular Biology, Chemistry and General Biology specialisations

Choose at least one Level 1 mathematics unit from the list below in either semester in second year

Mathematics units

300830.3	Analysis of Change
200263.6	Biometry
200025.3	Discrete Mathematics
300672.3	Mathematics 1A
300831.5	Quantitative Thinking

Choose two science units if completing a mathematics unit in Autumn, or three science units otherwise

Science units

300832.2	Analytical Chemistry
300930.2	Classical Physics and Advanced Technologies
300936.2	Functional Proteins and Genes
300845.2	Genetics
300931.2	Integrated Science
300833.3	Microbiology 1
300876.2	Organic Chemistry
300865.2	Plant Physiology

Science: Mathematics Specialisation

200028.4	Advanced Calculus
200027.4	Linear Algebra

Choose one of

300802.3	Biodiversity
300800.3	Essential Chemistry 1
300808.3	Introductory Chemistry
300828.2	Physics 1

Spring session

One compulsory Level 1 BIS major unit

Choose three science units appropriate for your science major as follows

Biological Sciences

300817.2	Molecular Biology
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Choose one of

300838.2	Comparative Physiology
300839.2	Ecology
300847.2	Immunology
300848.2	Metabolism
300896.2	Microbiology 2

Choose one of

200263.6	Biometry
300831.5	Quantitative Thinking

Chemistry

300899.2	Inorganic Chemistry
300849.3	Physical Chemistry

Choose one of

300838.2	Comparative Physiology
200030.5	Differential Equations
300839.2	Ecology
301032.2	Making Sense of Data

Mathematical Science

200030.5	Differential Equations
301032.2	Making Sense of Data

Choose one of

300816.2	Cell Biology
300803.2	Essential Chemistry 2

Science: Non-mathematics Specialisations

Biochemistry and Molecular Biology, Chemistry and General Biology specialisations

Choose either one mathematics unit and two science units or three science units (if mathematics unit completed in Autumn)

Science units

300838.2	Comparative Physiology
300839.2	Ecology
300847.2	Immunology
300899.2	Inorganic Chemistry
300848.2	Metabolism
300896.2	Microbiology 2
300817.2	Molecular Biology
300849.3	Physical Chemistry

Science: Mathematics specialisation

200030.5	Differential Equations
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Choose two of

300838.2	Comparative Physiology
300839.2	Ecology
300899.2	Inorganic Chemistry
301032.2	Making Sense of Data
300849.3	Physical Chemistry

Year 3**Autumn session**

One LOTE (Language other than English) sub-major unit

Choose three science units appropriate for your science major as follows

Biological Sciences

300850.2	Advanced Cell Biology
300820.3	Genes, Genomics and Human Health
300919.2	Occupational Health and Safety
300819.2	Topics in Physiology

Capstone units

300851.1	Advanced Physiology
300866.2	Analytical Microbiology
300978.2	Marine and Aquatic Ecology

Chemistry

300907.2	Advanced Inorganic Chemistry
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300857.1 Environmental Geochemistry

Please note unit 300857 replaced by 301212 Science of the Anthropocene from 2019.

301212.2 Science of the Anthropocene

Choose one of

- 300926.2** Advanced Physical Chemistry
300912.2 Molecular Pharmacokinetics

Mathematical Science

- 200193.3** Abstract Algebra
200023.4 Analysis
301034.2 Predictive Modelling

Science

Choose three of

- 300907.2** Advanced Inorganic Chemistry
300926.2 Advanced Physical Chemistry
300857.1 Environmental Geochemistry

Please note unit 300857 replaced by 301212 Science of the Anthropocene from 2019.

- 200193.3** Abstract Algebra
300850.2 Advanced Cell Biology
200023.4 Analysis
300820.3 Genes, Genomics and Human Health
301034.2 Predictive Modelling
301212.2 Science of the Anthropocene
300819.2 Topics in Physiology

Capstone units

- 300851.1** Advanced Physiology
300866.2 Analytical Microbiology
300978.2 Marine and Aquatic Ecology

Spring session

One LOTE (Language other than English) sub-major unit
 Choose three science units appropriate for your science major as follows

Biological Sciences

- 300905.2** Advanced Immunology
300918.4 Invertebrate Biology
300861.2 Vertebrate Biodiversity

Capstone units

- 300909.2** Biological Adaptation to Climate Change
300855.2 Conservation Biology
300883.2 Laboratory Quality Management
300927.3 Molecular Medicine
300924.2 Science Research Project

Chemistry

- 300925.2** Advanced Analytical Chemistry
300906.2 Advanced Organic Chemistry

Choose one capstone unit

- 300883.2** Laboratory Quality Management
300924.2 Science Research Project

Mathematical Science

- 301035.2** Environmental Informatics
200022.4 Mathematical Modelling

Capstone unit

- 200045.4** Quantitative Project

Science

Choose three of

- 300925.2** Advanced Analytical Chemistry
300905.2 Advanced Immunology
300906.2 Advanced Organic Chemistry
301035.2 Environmental Informatics
300918.4 Invertebrate Biology
200022.4 Mathematical Modelling
300826.3 Medical Microbiology
300923.2 Quantum Physics
300861.2 Vertebrate Biodiversity

Capstone units

- 300909.2** Biological Adaptation to Climate Change
300855.2 Conservation Biology
300883.2 Laboratory Quality Management
300927.3 Molecular Medicine
200045.4 Quantitative Project
300924.2 Science Research Project

Year 4**Autumn session**

Four BIS units – 3 x BIS major units and 1 x LOTE submajor unit.

Students might otherwise exercise the option to undertake study abroad this semester.

Spring session

Four BIS units – 3 x BIS major units and 1 x LOTE submajor unit

Bachelor of 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 their 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
300831.5	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
300831.5	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

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

Choose two Level 2/3 International Relations and Asian Studies major units

Choose one Language sub-major unit

Bachelor of Science (Zoology)/Bachelor of Natural Science (Animal Science)

3732.1

This course is not available for intake in 2021. As an alternative, commencing students should consider 3754 Bachelor of Science, majoring in MT3015 Animal Science or MT3014 Zoology

The Bachelor of Science (Zoology)/Bachelor of Natural Science (Animal Science) recognises the increased demand for scientific knowledge about how to conserve and protect wildlife, as well as develop deeper understanding of the interactions between people and animals. This arises from our ever-increasing reliance on animals for companionship and food production. The combined Zoology and Animal Science Degree at Western Sydney University provides you with hands-on experience and a range of skills including specialist knowledge of wildlife and domesticated animals, practical skills, the ability to think critically and solve problems. Career opportunities exist in a range of areas including zoological research,

environmental management and consulting, wildlife biology, government quarantine, agriculture, museums, and universities, as well as, international opportunities. On-campus animal facilities include those for reptiles, small marsupials, small rodents, horses, sheep and cattle, as well as over 1,000ha of native, rural and aquatic habitats. Fourth year options allow you to major in Conservation Biology, Marine Biology or Environmental Consulting.

Study Mode

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

Location

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

Admission

Assumed Knowledge: Any two units of English and any two units of Science.

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

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

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

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

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

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

Course Structure

Recommended Sequence

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

NOTE: Students are required to complete 120 credit points of Level 3 units and above. To this end, at least two of the elective spots should be used to complete Level 3 units.

Year 1

Autumn session

300802.3	Biodiversity
300811.2	Scientific Literacy
300813.2	Wildlife Studies

Choose one of

- 300800.3** Essential Chemistry 1
300808.3 Introductory Chemistry

Spring session

- 300816.2** Cell Biology
300803.2 Essential Chemistry 2
300801.2 Animal Science

Choose one of

- 200263.6** Biometry
300831.5 Quantitative Thinking

Year 2

Autumn session

- 300834.2** Animal Health and Welfare
300936.2 Functional Proteins and Genes
300980.2 Principles of Evolution
300807.2 Human Animal Interactions

Spring session

- 300979.2** Principles of Zoology
300838.2 Comparative Physiology
300839.2 Ecology
300932.2 Natural Science Research Methods

Year 3

Autumn session

- 300878.2** Animal Behaviour
300978.2 Marine and Aquatic Ecology
300931.2 Integrated Science
300853.2 Animal Nutrition and Feeding

Spring session

- 300855.2** Conservation Biology
300918.4 Invertebrate Biology
300861.2 Vertebrate Biodiversity
300909.2 Biological Adaptation to Climate Change

Year 4

Autumn session

- 300854.2** Animal Production
300913.2 Field Project 1

And two electives.

Note: At least two of the elective spots should be used to complete Level 3 units.

Spring session

- 300835.2** Animal Reproduction
300914.2 Field Project 2

And two electives.

Note: At least two of the elective spots should be used to complete Level 3 units.

Major and Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved major (80 credit points) or sub-major (40 credit points) including the majors and sub-majors listed below.

Majors

- M3079.1** Conservation Biology
M3084.1 Environmental Consulting
M3081.1 Marine Biology

Sub-major Elective Spaces

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

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

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

Bachelor of Sustainable Agriculture and Food Security

3726.1

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

Admission

Assumed Knowledge: One or more units of Agriculture, Business Studies, Geography, Society and Culture, and any two units of Mathematics and any two units of Science.

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

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

Students may choose to major in Natural Science, Social Sciences or Business, or may choose a general pathway.

M4004 - Natural Science Major

Year 1

Autumn session

300804.2	Feeding the Planet
300811.2	Scientific Literacy
200855.3	Leadership in a Complex World
301071.3	Introduction to Critical Thinking

Spring session

102421.2	Data, Mediation, Power
301096.2	Horticultural Production Systems
300805.2	Food Science 1

Introduction to Ecological Agriculture (AGR141) - in partnership with Charles Sturt University

Year 2

Autumn session

301097.2	Greenhouse Technology for Food Sustainability
300840.2	Environmental Planning and Climate Change
300823.2	Soils

Choose one of

300808.3	Introductory Chemistry
300800.3	Essential Chemistry 1

Spring session

300791.2	Sustainable Food Production
301389.1	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

300865.2	Plant Physiology
300845.2	Genetics

2H/Spring session

300914.2	Field Project 2
300870.2	Water in the Landscape
300869.2	Postharvest

Complex Systems in Biological Farming (AGR306) - in partnership with Charles Sturt University

From Spring 2016 this unit will be replaced by Biological Farming Systems (AGR306) - in partnership with Charles Sturt University

M4005 - Social Sciences Major

Year 1

Autumn session

300804.2	Feeding the Planet
300811.2	Scientific Literacy
200855.3	Leadership in a Complex World
301071.3	Introduction to Critical Thinking

Spring session

102421.2	Data, Mediation, Power
301096.2	Horticultural Production Systems
300805.2	Food Science 1

Introduction to Ecological Agriculture (AGR141) - in partnership with Charles Sturt University

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
301389.1	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

M4006 - Business Major**Year 1****Autumn session**

300804.2	Feeding the Planet
300811.2	Scientific Literacy
200855.3	Leadership in a Complex World
301071.3	Introduction to Critical Thinking

Spring session

102421.2	Data, Mediation, Power
301096.2	Horticultural Production Systems
300805.2	Food Science 1

Introduction to Ecological Agriculture (AGR141) - in partnership with Charles Sturt University

Year 2**Autumn session**

301097.2	Greenhouse Technology for Food Sustainability
300840.2	Environmental Planning and Climate Change
200083.3	Marketing Principles
200525.3	Principles of Economics

Spring session

300791.2	Sustainable Food Production
301389.1	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
200087.3	Strategic Marketing Management
200086.3	Marketing Communications

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

300804.2	Feeding the Planet
300811.2	Scientific Literacy
200855.3	Leadership in a Complex World
301071.3	Introduction to Critical Thinking

Spring session

102421.2	Data, Mediation, Power
301096.2	Horticultural Production Systems
300805.2	Food Science 1

Introduction to Ecological Agriculture (AGR141) - in partnership with Charles Sturt University

Year 2**Autumn session**

301097.2	Greenhouse Technology for Food Sustainability
300840.2	Environmental Planning and Climate Change

Choose one of

300823.2	Soils
101331.3	Issues in World Development: Rich World, Poor World
200083.3	Marketing Principles

And one elective

Spring session

300791.2	Sustainable Food Production
301389.1	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

300921.2	Plant Health and Biosecurity
101569.3	Sustainable Futures
200862.1	Creating Change and Innovation

And one elective

2H/Spring session

300914.2	Field Project 2
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Choose two of

300869.2	Postharvest
300961.4	Social Computing
200815.2	Globalisation and Sustainability
300870.2	Water in the Landscape
101595.3	Community and Social Action

200158.4 Business, Society and Policy

And one elective

Replaced Units

The units listed below count towards completion of this course for students who passed these units in 2016 or earlier.

101925 - Mediated Mobilities

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

300790 - Agriculture, Food and Health

Bachelor of Sustainable Agriculture and Food Security

3726.2

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.

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

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.

M4013.1	Natural Science
M4014.1	Social Sciences
M4015.1	Business

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

300804.2	Feeding the Planet
300811.2	Scientific Literacy
300823.2	Soils
301071.3	Introduction to Critical Thinking

Spring session

102421.2	Data, Mediation, Power
301096.2	Horticultural Production Systems
300805.2	Food Science 1

Introduction to Ecological Agriculture (AGR141) - in partnership with Charles Sturt University

Note: This unit is taught by Charles Sturt University. It is mostly online/by distance, but will require a workshop attendance. Arrangement to enrol will be made in conjunction with the School.

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
200083.3 Marketing Principles

And one elective

Spring session

- 300791.2** Sustainable Food Production
301389.1 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

- 300921.2** Plant Health and Biosecurity
101569.3 Sustainable Futures
200862.1 Creating Change and Innovation

And one elective

2H/Spring session

- 300914.2** Field Project 2

Choose two of

- 300869.2** Postharvest
300961.4 Social Computing
200815.2 Globalisation and Sustainability
300870.2 Water in the Landscape
101595.3 Community and Social Action
200158.4 Business, Society and Policy

And one elective

General Pathway - Mid-year Intake

Year 1

Spring session

- 300811.2** Scientific Literacy
301096.2 Horticultural Production Systems
300805.2 Food Science 1

Introduction to Ecological Agriculture (AGR141) - in partnership with Charles Sturt University

Note: This unit is taught by Charles Sturt University. It is mostly online/by distance, but will require a workshop attendance. Arrangement to enrol will be made in conjunction with the School.

Autumn session

- 300804.2** Feeding the Planet
300823.2 Soils
301071.3 Introduction to Critical Thinking

And one elective

Year 2

Spring session

- 300791.2** Sustainable Food Production
301389.1 Agriculture, Food and Health
300932.2 Natural Science Research Methods
102421.2 Data, Mediation, Power

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
200083.3 Marketing Principles

And one elective

Year 3

2H/Spring session

- 300914.2** Field Project 2

Choose two of

- 300869.2** Postharvest
300961.4 Social Computing
200815.2 Globalisation and Sustainability
300870.2 Water in the Landscape
101595.3 Community and Social Action
200158.4 Business, Society and Policy

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

Replaced Units

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

300790 - Agriculture, Food and Health

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
300831.5	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
200083.3	Marketing Principles

And one elective

Spring session

300791.2	Sustainable Food Production
301389.1	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
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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
300831.5 Quantitative Thinking
300802.3 Biodiversity
300808.3 Introductory Chemistry

Year 2

Spring session

300791.2 Sustainable Food Production
301389.1 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
200083.3 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.

Replaced Units

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

300790 - Agriculture, Food and Health

Diploma in Science/Bachelor of Medical Science

6002.1

This degree comprises three areas of major: biomedical science, medicinal chemistry and anatomy and physiology. The biomedical science major focuses on microbiology, biochemistry, molecular biology and aspects of health. The medicinal chemistry major focuses on chemistry and biochemistry, while the anatomy and physiology major focuses on anatomy, physiology and pharmacology. Graduates of this degree will find employment in areas such as medical research laboratories, hospital laboratories and in pathology laboratories and be well suited for positions in the pharmaceutical, medical sales and various research and quality control laboratories, as well as further study including research degrees, graduate pharmacy and graduate medicine degrees.

The first year of this course is delivered by Western Sydney University The College as an agent of Western Sydney University via extended face-to-face hours in smaller learning environments.

A Diploma in Science exit point is also available at the end of the first year of the course.

For more information on Western Sydney University, The College, please refer to their web site.

For course advice during your first year of study, please use the contact below under 'Course Advice'. For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Medical Science.

Study Mode

Three years full-time or six years part-time. Students will be required to attend the Hawkesbury and Campbelltown campuses for some learning experiences.

Location

Campus	Attendance	Mode
Bankstown Campus	Full Time	Internal
Bankstown Campus	Part Time	Internal
Campbelltown Campus	Full Time	Internal
Campbelltown Campus	Part Time	Internal
Hawkesbury Campus	Full Time	Internal
Hawkesbury Campus	Part Time	Internal
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal
The College - Nirimba Education Precinct	Full Time	Internal
The College - Nirimba Education Precinct	Part Time	Internal

Admission

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

Domestic students are required to have

- Completed an English unit in the NSW Higher School Certificate, Or
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher.

Students are also assumed to have completed some study in Mathematics and Science at a senior high school level or equivalent.

Met other entry requirements such as

- An ATAR identified prior to the offer of a place, Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher

International students must satisfy one of the following language requirements

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed the College EAP 4 course with a 50% pass Or
- Passed The College English test at IELTS 6.0 equivalent Or

- Passed The College Foundation Studies Academic English unit at C grade level or higher for which advanced standing can be applied for.

Academic Entry Requirements vary according to country of origin. However, in general

- Completion of Year 12 or its equivalent is the minimum entry requirement Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

Course Structure

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Western Sydney University The College Units

Bankstown and Nirimba Campus

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

Year 1

Preparatory Units

- 700043.3** Chemistry (WSTC Prep)
- 700173.2** Tertiary Study Skills in Science (WSTC Prep)

Students must pass the following University level units

- 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)

Choose one of

- 700095.3** Biodiversity (WSTC)
- 700035.5** Physics 1 (WSTC)

Bachelor of Medical Science (Forensic Mortuary Practice) students must choose 700035 Physics 1 (WSTC).

Choose one of

- 700123.4** Quantitative Thinking (WSTC)
- 700033.5** Biometry (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.

Choose two of

- 700099.3** Resource Sustainability (WSTC)
- 700096.4** Integrated Science (WSTC)
- 700098.3** Introduction to Physiology (WSTC)
- 700266.2** Concepts in Human Anatomy (WSTC)
- 700265.2** Food Science 1 (WSTC)

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 700098 Introduction to Physiology (WSTC) and 700266 Concepts in Human Anatomy (WSTC).

Students may exit at this point and graduate with the Diploma in Science following a passing grade in all of the above units. Students who progress onto Year Two may also be awarded the Diploma if they gain a passing grade in all of the above units.

- Students must pass all College Preparatory units before progressing to the Year Two units.
- Students must pass at least 70 credit points of University level units in Year One before progressing to the Year Two units.

Western Sydney University Units

For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Medical Science.

Campbelltown, Hawkesbury and Parramatta (Victoria Road) Campus

Year 2 - Year 3

Students must select one of the following Majors

M3060.1	Medicinal Chemistry
M3061.1	Anatomy and Physiology
M3062.1	Biomedical Science
M3106.1	Forensic Mortuary Practice

M3106.1 - Forensic Mortuary Practice is not available from 2019 onwards.

Sub-major elective spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points) including the sub-majors listed below.

Sub-majors

SM3048.1	Climate Change
SM3044.1	Microbiology
SM3050.1	Physics

Students who maintain a GPA of 5 or higher may use elective units toward obtaining an additional approved sub-major in Critical Thinking.

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

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

Elective Units

The following unit, 301161 Work Integrated Learning in Science, is a level 2 elective unit that gives students the opportunity to undertake a short work placement within a professional organisation. For further details please follow the link

[301161.2](#) Work Integrated Learning in Science

Diploma in Science/Bachelor of Medical Science

6002.2

This degree comprises three areas of major: biomedical science, medicinal chemistry and anatomy and physiology. The biomedical science major focuses on microbiology, biochemistry, molecular biology and aspects of health. The medicinal chemistry major focuses on chemistry and biochemistry, while the anatomy and physiology major focuses on anatomy, physiology and pharmacology. Graduates of this degree will find employment in areas such as medical research laboratories, hospital laboratories and in pathology laboratories and be well suited for positions in the pharmaceutical, medical sales and various research and quality control laboratories, as well as further study including research degrees, graduate pharmacy and graduate medicine degrees.

The first year of this course is delivered by Western Sydney University The College as an agent of Western Sydney University via extended face-to-face hours in smaller learning environments.

A Diploma in Science exit point is also available at the end of the first year of the course.

For more information on Western Sydney University, The College, please refer to their web site.

For course advice during your first year of study, please use the contact below under 'Course Advice'. For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Medical Science.

Study Mode

Three years full-time or six years part-time. Students will be required to attend the Hawkesbury and Campbelltown campuses for some learning experiences.

Location

Campus	Attendance	Mode
Campbelltown Campus	Full Time	Internal
Campbelltown Campus	Part Time	Internal
Hawkesbury Campus	Full Time	Internal
Hawkesbury Campus	Part Time	Internal
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal
The College - Nirimba Education Precinct	Full Time	Internal
The College - Nirimba Education Precinct	Part Time	Internal

Admission

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

Domestic students are required to have

- Completed an English unit in the NSW Higher School Certificate, OR

- Competency in English at IELTS 6.0 equivalent (unless a native speaker) OR
- Passed The College English test at IELTS 6.0 equivalent OR
- Passed The College Foundation Studies Academic English unit at C grade level or higher.

Students are also assumed to have completed some study in Mathematics and Science at a senior high school level or equivalent.

Met other entry requirements such as

- An ATAR identified prior to the offer of a place, OR
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher

International students must satisfy one of the following language requirements

- IELTS 6.0 with a minimum 5.5 in each sub band OR
- Completed the College EAP 4 course with a 50% pass OR
- Passed The College English test at IELTS 6.0 equivalent OR
- Passed The College Foundation Studies Academic English unit at C grade level or higher for which advanced standing can be applied for.

Academic Entry Requirements vary according to country of origin. However, in general

- Completion of Year 12 or its equivalent is the minimum entry requirement OR
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

Course Structure

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Western Sydney University The College Units

Nirimba Campus

Year 1

Preparatory Units

- 700043.3** Chemistry (WSTC Prep)
700173.2 Tertiary Study Skills in Science (WSTC Prep)

Students must pass the following University level units

- 700095.3** Biodiversity (WSTC)
700125.3 Cell Biology (WSTC)
700122.3 Essential Chemistry 2 (WSTC)
700123.4 Quantitative Thinking (WSTC)
700124.3 Scientific Literacy (WSTC)

Choose one of

- 700121.4** Essential Chemistry 1 (WSTC)
700155.3 Introductory Chemistry (WSTC)

** And two more units from the following five units (depending on which major students are progressing to):

Choose two of

- 700266.2** Concepts in Human Anatomy (WSTC)
700265.2 Food Science 1 (WSTC)
700096.4 Integrated Science (WSTC)
700098.3 Introduction to Physiology (WSTC)
700099.3 Resource Sustainability (WSTC)

** The recommended units to be chosen from the above five alternate units listed above for each major are detailed below: Students progressing to a major in Medicinal Chemistry or Anatomy and Physiology or Biomedical Science must choose: 700098 Introduction to Physiology (WSTC) 700266 Concepts in Human Anatomy (WSTC) Students may exit at this point and graduate with the Diploma in Science following a passing grade in all of the above units. Students who progress onto Year Two may also be awarded the Diploma if they gain a passing grade in all of the above units.

- Students must pass all College Preparatory units before progressing to the Year Two units.
- Students must pass at least 70 credit points of University level units in Year One before progressing to the Year Two units.

Western Sydney University Units

For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Medical Science.

Campbelltown, Hawkesbury and Parramatta (Victoria Road) Campus

Year 2 - Year 3

Students must select one of the following Majors

- M3060.1** Medicinal Chemistry
M3061.1 Anatomy and Physiology
M3062.1 Biomedical Science

Sub-major Elective Spaces

Elective units may be used toward obtaining an additional approved sub-major (40 credit points) including the sub-majors listed below.

Sub-majors

- SM3048.1** Climate Change
SM3044.1 Microbiology
SM3050.1 Physics

Students who maintain a GPA of 5 or higher may use elective units toward obtaining an additional approved sub-major in Critical Thinking.

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

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

Elective Units

The following unit, 301161 Work Integrated Learning in Science, is a level 2 elective unit that gives students the opportunity to undertake a short work placement within a

professional organisation. For further details please follow the link

[301161.2](#) Work Integrated Learning in Science

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

700123.4	Quantitative Thinking (WSTC)
700125.3	Cell Biology (WSTC)
700122.3	Essential Chemistry 2 (WSTC)

Third Term of Study

700155.3	Introductory Chemistry (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

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 Natural Science

6003.1

Bachelor of Natural Science (Animal Science)

Interactions between people and animals are increasing due to our ever-increasing reliance on animals for companionship and food production, whilst we also strive to understand the pressures placed on our unique wildlife. A Bachelor of Natural Science (Animal Science) will enable you to develop a deep understanding of these issues, through studies of animal behaviour, animal health and welfare, animal nutrition, animal production, animal reproduction, human-animal interactions, vertebrate biodiversity, and wildlife science. Throughout your studies, you will have access to diverse on-campus animal facilities including reptiles, native mammals, horses, sheep, cattle and deer and off-campus animal professionals and organisations such as wildlife parks, zoos, farms and horse studs. There are a range of majors (conservation biology, zoology) and sub-majors (environmental sustainability and management) offered in Natural Science and Science that can add diversity and/or focus to your degree, to enable

your degree to be matched to your career aspirations. A variety of compelling and exciting career paths are available to graduates of this program, including international opportunities in the many fields of animal science.

Bachelor of Natural Science (Environmental Management)

History has shown that if we don't effectively manage our environment, we will degrade it - possibly to the point where it can no longer sustain us. Environmental managers are concerned with ensuring the ecological sustainability of human development and minimising the size of our "ecological footprint". A Bachelor of Natural Science (Environmental Management) will develop your problem solving skills and equip you to work collaboratively with both community members and professional practitioners to develop innovative policy and strategies that address the increasingly complex causes of today's environmental problems. Issues include urban development, global climate change, persistent organic pollutants (POPs), decreasing biodiversity, deteriorating air and water quality, and sustainable use of natural resources. The major areas embodied within the program include assessment and management of aquatic environments water quality assessment and management; introduction to wildlife; sustainable land and resource use; Indigenous land management; environmental planning; climate change science; environmental regulation and policy; environmental risk management and urban development. The majors (aquatic and conservation biology) and sub-majors (environmental sustainability and management) offered in Natural Science and Science can add diversity and/or focus to your degree, to help match your studies to your career aspirations.

The first year of this course is delivered by Western Sydney University The College as an agent of Western Sydney University via extended face-to-face hours in smaller learning environments.

A Diploma in Science exit point is also available at the end of the first year of the course.

For more information on Western Sydney University, The College, please refer to their web site.

For course advice during your first year of study, please use the contact below under 'Course Advice'. For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Natural Science.

Study Mode

Three years full-time or six years part-time. Students will be required to attend the Hawkesbury and Campbelltown campuses for some learning experiences.

Location

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

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

Admission

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

Domestic students are required to have

- Completed an English unit in the NSW Higher School Certificate, Or
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher.

Students are also assumed to have completed some study in Mathematics and Science at a senior high school level or equivalent.

Met other entry requirements such as

- An ATAR identified prior to the offer of a place, Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

International students must satisfy one of the following language requirements

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed the College EAP 4 course with a 50% pass Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher for which advanced standing can be applied for.

Academic Entry Requirements vary according to country of origin. However, in general

- Completion of Year 12 or its equivalent is the minimum entry requirement Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

Course Structure

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Western Sydney University The College Units

Bankstown, Hawkesbury and Nirimba Campus

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

Year 1

Preparatory Units

- 700043.3** Chemistry (WSTC Prep)
700173.2 Tertiary Study Skills in Science (WSTC Prep)

Students must pass the following University level 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)

Choose one of

- 700095.3** Biodiversity (WSTC)
700035.5 Physics 1 (WSTC)

Choose one of

- 700033.5** Biometry (WSTC)
700123.4 Quantitative Thinking (WSTC)

Choose two of

- 700266.2** Concepts in Human Anatomy (WSTC)
700265.2 Food Science 1 (WSTC)
700096.4 Integrated Science (WSTC)
700098.3 Introduction to Physiology (WSTC)
700099.3 Resource Sustainability (WSTC)

Students progressing to Bachelor of Natural Science (Animal Science or Environmental Management) must choose 700099 Resource Sustainability (WSTC) and 700096 Integrated Science (WSTC).

Students may exit at this point and graduate with the Diploma in Science following a passing grade in all of the above units. Students who progress onto Year Two may also be awarded the Diploma if they gain a passing grade in all of the above units.

- Students must pass all College Preparatory units before progressing to the Year Two units.
- Students must pass at least 70 credit points of University level units in Year One before progressing to the Year Two units.

Western Sydney University Units

For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Natural Science.

Hawkesbury Campus

Students choose either Bachelor of Natural Science (Animal Science) or Bachelor of Natural Science (Environmental Management)

Animal Science

Year 2

Autumn session

- 300807.2** Human Animal Interactions
300813.2 Wildlife Studies
300834.2 Animal Health and Welfare
300853.2 Animal Nutrition and Feeding

Spring session

300932.2	Natural Science Research Methods
300835.2	Animal Reproduction
300836.2	Botany
300801.2	Animal Science

Year 3**Autumn session**

300913.2	Field Project 1
300878.2	Animal Behaviour
300854.2	Animal Production

And one Level 3 elective

Spring session

300914.2	Field Project 2
300861.2	Vertebrate Biodiversity

And two Level 3 electives

Environmental Management**Year 2****Autumn session**

300813.2	Wildlife Studies
300824.2	Management of Aquatic Environments
300840.2	Environmental Planning and Climate Change

And one Level 3 elective

Spring session

300814.2	Water Quality Assessment and Management
300812.2	Understanding Landscape
300875.2	Landuse and the Environment
300932.2	Natural Science Research Methods

Year 3**Summer B session**

300959.2	Mangamai'bangawarra: Indigenous Science
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Autumn session

300913.2	Field Project 1
300858.2	Environmental Risk Management

And one Level 3 elective

Spring session

300914.2	Field Project 2
300860.2	Urban Environment
300870.2	Water in the Landscape
300841.2	Environmental Regulation and Policy

Diploma in Science/Bachelor of Science**6004.1**

Science asks questions about how the natural world works. It does so in a systematic, yet rigorously creative way based on inquiry and evidence for ideas. This approach has led to our current understanding of nature as being (in large part) systematic and predictable, and has underpinned major advances in human welfare. A Bachelor of Science will prepare you to take part in this process of enquiry, by both contributing to it and by using scientific knowledge to solve current problems. Students will learn core concepts and skills necessary for scientific inquiry: investigating the natural world, proposing and testing ideas by experimentation and observation; quantifying and modelling processes; communicating findings, thinking independently and critically. Students can enrol in a generalist Bachelor of Science or a Bachelor of Science in a specific discipline. Within each program students can select from a range of scientific disciplines to suit their interests, studying a core of basic science units to which other science units, and if desired, non-science units, can be added.

The first year of this course is delivered by Western Sydney University The College as an agent of Western Sydney University via extended face-to-face hours in smaller learning environments.

A Diploma in Science exit point is also available at the end of the first year of the course.

For more information on Western Sydney University, The College, please refer to their web site.

For course advice during your first year of study, please use the contact below under 'Course Advice'. For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Science.

Study Mode

Three years full-time or six years part-time. Students will be required to attend the Hawkesbury and Campbelltown campuses for some learning experiences.

Location

Campus	Attendance	Mode
Bankstown Campus	Full Time	Internal
Bankstown Campus	Part Time	Internal
Hawkesbury Campus	Full Time	Internal
Hawkesbury Campus	Part Time	Internal
Parramatta Campus - Victoria Road	Full Time	Internal
Parramatta Campus - Victoria Road	Part Time	Internal
The College - Nirimba Education Precinct	Full Time	Internal
The College - Nirimba Education Precinct	Part Time	Internal

Admission

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

Domestic students are required to have

- Completed an English unit in the NSW Higher School Certificate, Or
- Competency in English at IELTS 6.0 equivalent (unless a native speaker) Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher.

Students are also assumed to have completed some study in Mathematics and Science at a senior high school level or equivalent.

Met other entry requirements such as

- An ATAR identified prior to the offer of a place, Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher

International students must satisfy one of the following language requirements

- IELTS 6.0 with a minimum 5.5 in each sub band Or
- Completed the College EAP 4 course with a 50% pass Or
- Passed The College English test at IELTS 6.0 equivalent Or
- Passed The College Foundation Studies Academic English unit at C grade level or higher for which advanced standing can be applied for.

Academic Entry Requirements vary according to country of origin. However, in general

- Completion of Year 12 or its equivalent is the minimum entry requirement Or
- Completed The College Foundation Studies course with a Grade Point Average of 5.5 or higher.

Course Structure

Qualification for this award requires the successful completion of 250 credit points which include the units listed in the recommended sequence below.

Western Sydney University The College Units

Bankstown and Nirimba Campus

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

Preparatory level units

- 700043.3** Chemistry (WSTC Prep)
700173.2 Tertiary Study Skills in Science (WSTC Prep)

Students must pass the following University level units dependent upon the Western Sydney University degree they wish to enter on successful completion of their studies.

- 700125.3** 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) students must choose 700035 Physics 1 (WSTC).

Choose one of

- 700033.5** Biometry (WSTC)
700123.4 Quantitative Thinking (WSTC)

Choose two of

- 700266.2** Concepts in Human Anatomy (WSTC)
700265.2 Food Science 1 (WSTC)
700096.4 Integrated Science (WSTC)
700098.3 Introduction to Physiology (WSTC)
700099.3 Resource Sustainability (WSTC)

Students planning to progress to the Bachelor of Science (Biological Sciences) the following pattern is recommended.

- 700095.3** Biodiversity (WSTC)
700125.3 Cell Biology (WSTC)
700122.3 Essential Chemistry 2 (WSTC)
700098.3 Introduction to Physiology (WSTC)
700124.3 Scientific Literacy (WSTC)

Choose one of

- 700121.4** Essential Chemistry 1 (WSTC)
700155.3 Introductory Chemistry (WSTC)

Choose one of

- 700033.5** Biometry (WSTC)
700123.4 Quantitative Thinking (WSTC)

Choose one of

- 700096.4** Integrated Science (WSTC)
700099.3 Resource Sustainability (WSTC)

Students progressing to Bachelor of Science (Chemistry) must choose:

- 700122.3** Essential Chemistry 2 (WSTC)
700035.5 Physics 1 (WSTC)
700124.3 Scientific Literacy (WSTC)

Choose one of

- 700121.4** Essential Chemistry 1 (WSTC)
700155.3 Introductory Chemistry (WSTC)

Choose four of

- 700095.3** Biodiversity (WSTC)
700033.5 Biometry (WSTC)
700125.3 Cell Biology (WSTC)
700096.4 Integrated Science (WSTC)
700098.3 Introduction to Physiology (WSTC)
700123.4 Quantitative Thinking (WSTC)
700099.3 Resource Sustainability (WSTC)

Students progressing to Bachelor of Science must choose:

- 700124.3** Scientific Literacy (WSTC)

Choose one of

- 700033.5** Biometry (WSTC)
700123.4 Quantitative Thinking (WSTC)

Choose six of

Please note that choices in first year will impact on available majors in second year. It is recommended that students seek academic advice if taking this sequence.

- 700095.3** Biodiversity (WSTC)
700125.3 Cell Biology (WSTC)
700122.3 Essential Chemistry 2 (WSTC)
700096.4 Integrated Science (WSTC)
700098.3 Introduction to Physiology (WSTC)
700155.3 Introductory Chemistry (WSTC)
700099.3 Resource Sustainability (WSTC)

Or

- 700121.4** Essential Chemistry 1 (WSTC)

Students progressing to Bachelor of Science (Forensic Science) must choose:

- 700095.3** Biodiversity (WSTC)
700033.5 Biometry (WSTC)
700125.3 Cell Biology (WSTC)
700266.2 Concepts in Human Anatomy (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)

Choose one of

- 700098.3** Introduction to Physiology (WSTC)
700096.4 Integrated Science (WSTC)
700099.3 Resource Sustainability (WSTC)
700123.4 Quantitative Thinking (WSTC)

Students progressing to Bachelor of Science (Nutrition and Food Sciences) must choose:

- 700095.3** Biodiversity (WSTC)
700125.3 Cell Biology (WSTC)
700122.3 Essential Chemistry 2 (WSTC)
700265.2 Food Science 1 (WSTC)
700123.4 Quantitative Thinking (WSTC)
700124.3 Scientific Literacy (WSTC)

Choose one of

- 700121.4** Essential Chemistry 1 (WSTC)
700155.3 Introductory Chemistry (WSTC)

Choose one of

- 700033.5** Biometry (WSTC)
700096.4 Integrated Science (WSTC)
700098.3 Introduction to Physiology (WSTC)
700099.3 Resource Sustainability (WSTC)

Students progressing to Bachelor of Science (Environmental Science) must choose:

- 700095.3** Biodiversity (WSTC)
700125.3 Cell Biology (WSTC)
700122.3 Essential Chemistry 2 (WSTC)

- 700099.3** Resource Sustainability (WSTC)
700124.3 Scientific Literacy (WSTC)

Choose one of

- 700121.4** Essential Chemistry 1 (WSTC)
700155.3 Introductory Chemistry (WSTC)

Choose one of

- 700033.5** Biometry (WSTC)
700123.4 Quantitative Thinking (WSTC)

Choose one of

- 700096.4** Integrated Science (WSTC)
700098.3 Introduction to Physiology (WSTC)

Students progressing to Bachelor of Science (Zoology)

- 700095.3** Biodiversity (WSTC)
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)

Choose one of

- 700033.5** Biometry (WSTC)
700123.4 Quantitative Thinking (WSTC)

Choose two of

- 700096.4** Integrated Science (WSTC)
700098.3 Introduction to Physiology (WSTC)
700099.3 Resource Sustainability (WSTC)

Students may exit at this point and graduate with the Diploma in Science following a passing grade in all of the above units. Students who progress onto Year Two may also be awarded the Diploma if they gain a passing grade in all of the above units.

- Students must pass all College Preparatory units before progressing to the Year Two units.
- Students must pass at least 70 credit points of University level units in Year One before progressing to the Year Two units.

Western Sydney University Units

For course advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Science.

Year 2 and Year 3

160 credit points as per the rules of the Bachelor of Science. At least 60 credit points needs to be a Level 3 of which 40 credit points need to be from science units, including at least one capstone unit.

Level 2 and 3

The completion of at least one of the following Majors

- M3090.1** Biochemistry and Molecular Biology
M3047.1 Chemistry
M3078.1 Climate Change

M3079.1	Conservation Biology
M4011.1	Environmental Consulting
M3100.1	Forensic Chemistry
M3080.1	General Biology
M3081.1	Marine Biology
M3054.1	Mathematics
M3099.1	Microbiology
M3089.1	Nutrition and Physiology
M3082.1	Zoology

300820.3	Genes, Genomics and Human Health
300918.4	Invertebrate Biology
200022.4	Mathematical Modelling
300826.3	Medical Microbiology
301034.2	Predictive Modelling
300923.2	Quantum Physics
301212.2	Science of the Anthropocene
300819.2	Topics in Physiology
300861.2	Vertebrate Biodiversity

The completion of at least ten Level 2 or 3 science units from the senior unit sets below with at least four at Level 3 (Units within your major count towards this requirement)

At least one of the Level 3 units must be a capstone unit

Senior Unit Set Level 2

200028.4	Advanced Calculus
300832.2	Analytical Chemistry
300836.2	Botany
300930.2	Classical Physics and Advanced Technologies
300838.2	Comparative Physiology
300837.2	Climate Change Science
200030.5	Differential Equations
300839.2	Ecology
300843.2	Forensic and Environmental Analysis
300936.2	Functional Proteins and Genes
300845.2	Genetics
300847.2	Immunology
300899.2	Inorganic Chemistry
300931.2	Integrated Science
301033.2	Introduction to Data Science
200027.4	Linear Algebra
301032.2	Making Sense of Data
300959.2	Mangamai'bangawarra: Indigenous Science
300848.2	Metabolism
300833.3	Microbiology 1
300817.2	Molecular Biology
300896.2	Microbiology 2
300980.2	Principles of Evolution
300865.2	Plant Physiology
300979.2	Principles of Zoology
300849.3	Physical Chemistry
300876.2	Organic Chemistry

Note: Students may only choose one of 300832 Analytical Chemistry or 300843 Forensic and Environmental Analysis

Senior unit set Level 3

300907.2	Advanced Inorganic Chemistry
300926.2	Advanced Physical Chemistry
300857.1	Environmental Geochemistry
300912.2	Molecular Pharmacokinetics
300919.2	Occupational Health and Safety

Please note unit 300857 replaced by 301212 Science of the Anthropocene from 2019.

300925.2	Advanced Analytical Chemistry
300906.2	Advanced Organic Chemistry
300905.2	Advanced Immunology
200193.3	Abstract Algebra
300850.2	Advanced Cell Biology
200023.4	Analysis
301035.2	Environmental Informatics
300856.2	Ecosystem Carbon Accounting

Capstone Units

300851.1	Advanced Physiology
300866.2	Analytical Microbiology
300909.2	Biological Adaptation to Climate Change
300855.2	Conservation Biology
300883.2	Laboratory Quality Management
300978.2	Marine and Aquatic Ecology
300927.3	Molecular Medicine
200045.4	Quantitative Project
300924.2	Science Research Project

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
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.

Year1 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

700123.4	Quantitative Thinking (WSTC)
700125.3	Cell Biology (WSTC)
700122.3	Essential Chemistry 2 (WSTC)

Third Term of Study

700155.3	Introductory Chemistry (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**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

Elective 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

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)
- 700123.4** 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 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)
700123.4 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)

Diploma in Science Extended - Medical Science

7120.2

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

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

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

This program is designed to provide students with the first year units included in the 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 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). 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

School Leavers

A7236.1 WSTC Science Extended - Medical Science - Recent School Leavers

Non-Credentialed Students

A7237.1 WSTC Science Extended - Medical Science - Non-Credentialed

International Students

A7238.1 WSTC Science Extended - Medical Science - International

Diploma in Science Extended - Medical Science

7120.3

Students should follow the course structure for the course version relevant to the year they commenced. This version applies to students whose commencement year for this course is 2018, term 3 or later.

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

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

This program is designed to provide students with the first year units included in the Medical Science degree. The inclusion of additional preparatory units is designed to assist students in the transition to study at University level. The Diploma is delivered via extended face to face hours in smaller learning environments. Students who successfully complete this Diploma will articulate into the Medical

Science degree with up to one year (80 credit points) equivalent of advanced standing.

For more information on Western Sydney University, The College, please refer to their web site.

Study Mode

One and a half years full-time (four terms). Students will be required to attend the Hawkesbury and Campbelltown campuses for some learning experiences.

Location

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

Admission

Extended course:

Recent School Leavers:

Completion of Year 12 with specified ATAR to be determined year by year.

Non-credentialed Students:

Australian Citizens and Permanent Residents who are aged 17 years or over.

International Students:

IELTS 5.5 with minimum 5.0 in each sub band; or equivalent results from The College English Language Program or The College English Entrance Test; and completion of year 11 or equivalent with specified results.

Course Structure

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

Qualification for this award requires the successful completion of 130 CPs which include the units listed in the pathways below

School Leavers

A7260.1	WSTC Science Extended - Medical Science - Recent School Leavers
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Non-Credentialed Students

A7261.1	WSTC Science Extended - Medical Science - Non-Credentialed
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International Students

A7262.1	WSTC Science Extended - Medical Science - International
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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

Diploma in Science Extended - Natural Science**7121.2**

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

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

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

This program is designed to provide students with the first year units included in the Natural Science degree. The inclusion of additional preparatory units is designed to assist students in the transition to study at University level. The Diploma is delivered via extended face to face hours in smaller learning environments.

Students who successfully complete this Diploma will articulate into the Natural Science degree with up to one year (80 credit points) equivalent of advanced standing.

For more information on Western Sydney University, The College, please refer to their website.

Study Mode

One and a half years full-time (four terms). Students will be required to attend the Hawkesbury and Campbelltown campuses for some learning experiences.

Location

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

Admission

Recent School Leavers

Completion of Year 12 with specified ATAR to be determined year by year.

Non-credentialed Students

Australian Citizens and Permanent Residents who are aged 17 years or over.

International Students

IELTS 5.5 with minimum 5.0 in each sub band; or equivalent results from The College English Language Program or The College English Entrance Test; and completion of year 11 or equivalent with specified results.

Course Structure

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

School Leavers

A7239.1 WSTC Science Extended - Natural Science - School Leavers

Non-credentialed Students

A7240.1 WSTC Science Extended - Natural Science - Non-Credentialed

International Students

A7241.1 WSTC Science Extended - Natural Science - International Students

Diploma in Science Extended - Science**7122.2**

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

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

This course is delivered by Western Sydney University, The College as an agent of Western Sydney University.

This program is designed to provide students with the first year units included in the Science degrees. The inclusion of additional preparatory units is designed to assist students in the transition to study at University level. The Diploma is delivered via extended face to face hours in smaller learning environments.

Students who successfully complete this Diploma will articulate into the Science degrees with up to one year (80 credit points) equivalent of advanced standing.

For more information on Western Sydney University, The College, please refer to their website.

Study Mode

One and a half years full-time (four terms). Students will be required to attend the Hawkesbury and Campbelltown campuses for some learning experiences.

Location

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

Admission**Recent School Leavers**

Completion of Year 12 with specified ATAR to be determined year by year.

Non-credentialed Students

Australian Citizens and Permanent Residents who are aged 17 years or over.

International Students

IELTS 5.5 with minimum 5.0 in each sub band; or equivalent results from The College English Language Program or The College English Entrance Test; and completion of year 11 or equivalent with specified results.

Course Structure

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

Qualification for this award requires the successful completion of 130 CPs which include the units listed in the pathways below

School Leavers

A7242.1 WSTC Science Extended - Science - School Leavers

Non-Credentialed Students

A7243.1 WSTC Science Extended - Science - Non-Credentialed Students

International Students

A7244.1 WSTC Science Extended - Science - International Students

Diploma in Science 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

Undergraduate Certificate in Environmental Sustainability**7175.1**

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

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)

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.

700095.3	Biodiversity (WSTC)
300824.2	Management of Aquatic Environments
300814.2	Water Quality Assessment and Management
301271.1	Environmental Issues and Solutions

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)
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Specialisations

The College Admission Pathway - WSTC Science Extended - Medical Science - Recent School Leavers

A7236.1

Specialisation Structure

Students must be enrolled in 7120 - Diploma in Science Extended - Medical Science to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

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)
700173.2	Tertiary Study Skills in Science (WSTC Prep)

Level 1 units

700124.3	Scientific Literacy (WSTC)
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Choose one of

700095.3	Biodiversity (WSTC)
700035.5	Physics 1 (WSTC)

Bachelor of Medical Science (Forensic Mortuary Practice) must choose 700035 - Physics 1 (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)

700099.3	Resource Sustainability (WSTC)
700096.4	Integrated Science (WSTC)
700098.3	Introduction to Physiology (WSTC)
700266.2	Concepts in Human Anatomy (WSTC)
700265.2	Food Science 1 (WSTC)

(700265 Food Science 1 is to be studied in Spring at Hawkesbury campus)

Bachelor of Medical Science (Medicinal Chemistry or Anatomy and Physiology or Biomedical Science) or

Bachelor of Medical Science (Forensic Mortuary Practice) students must choose 700098 Introduction to Physiology (WSTC) and 700266 Concepts in Human Anatomy (WSTC)

Term 4 of Study

700125.3	Cell Biology (WSTC)
700155.3	Introductory Chemistry (WSTC)

Choose one of

700123.4	Quantitative Thinking (WSTC)
700033.5	Biometry (WSTC)

Bachelor of Medical Science (Forensic Mortuary Practice) students must choose 700033 - Biometry (WSTC)

Students will graduate with the Diploma after gaining a passing grade in all of the above units.

The College Admission Pathway - WSTC Science Extended - Medical Science - Non-Credentialed

A7237.1

Specialisation Structure

Students must be enrolled in 7120 - Diploma in Science Extended - Medical Science to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

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)
700173.2	Tertiary Study Skills in Science (WSTC Prep)

Level 1 units

700124.3	Scientific Literacy (WSTC)
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Choose one of

700095.3	Biodiversity (WSTC)
700035.5	Physics 1 (WSTC)

Bachelor of Medical Science (Forensic Mortuary Practice) must choose 700035 - Physics 1 (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)

- 700099.3** Resource Sustainability (WSTC)
- 700096.4** Integrated Science (WSTC)
- 700098.3** Introduction to Physiology (WSTC)
- 700266.2** Concepts in Human Anatomy (WSTC)
- 700265.2** Food Science 1 (WSTC)

(700265 Food Science 1 is to be studied in Spring at Hawkesbury campus)

Bachelor of Medical Science (Medicinal Chemistry or Anatomy and Physiology or Biomedical Science) or Bachelor of Medical Science (Forensic Mortuary Practice) students must choose 700098 Introduction to Physiology (WSTC) and 700266 Concepts in Human Anatomy (WSTC)

Term 4 of Study

- 700125.3** Cell Biology (WSTC)
- 700155.3** Introductory Chemistry (WSTC)

Choose one of

- 700123.4** Quantitative Thinking (WSTC)
- 700033.5** Biometry (WSTC)

Bachelor of Medical Science (Forensic Mortuary Practice) students must choose 700033 - Biometry (WSTC)

Students will graduate with the Diploma after gaining a passing grade in all of the above units.

The College Admission Pathway - WSTC Science Extended - Medical Science - International

A7238.1

Specialisation Structure

Students must be enrolled in 7120 - Diploma in Science Extended - Medical Science to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

- 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)

- 700173.2** Tertiary Study Skills in Science (WSTC Prep)

Level 1 units

- 700124.3** Scientific Literacy (WSTC)

Choose one of

- 700095.3** Biodiversity (WSTC)
- 700035.5** Physics 1 (WSTC)

Bachelor of Medical Science (Forensic Mortuary Practice) must choose 700035 - Physics 1 (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)

- 700099.3** Resource Sustainability (WSTC)
- 700096.4** Integrated Science (WSTC)
- 700098.3** Introduction to Physiology (WSTC)
- 700266.2** Concepts in Human Anatomy (WSTC)
- 700265.2** Food Science 1 (WSTC)

(700265 Food Science 1 is to be studied in Spring at Hawkesbury campus)

Bachelor of Medical Science (Medicinal Chemistry or Anatomy and Physiology or Biomedical Science) or Bachelor of Medical Science (Forensic Mortuary Practice) students must choose 700098 Introduction to Physiology (WSTC) and 700266 Concepts in Human Anatomy (WSTC)

Term 4 of Study

- 700125.3** Cell Biology (WSTC)
- 700155.3** Introductory Chemistry (WSTC)

Choose one of

- 700123.4** Quantitative Thinking (WSTC)
- 700033.5** Biometry (WSTC)

Bachelor of Medical Science (Forensic Mortuary Practice) students must choose 700033 - Biometry (WSTC)

Students will graduate with the Diploma after gaining a passing grade in all of the above units.

The College Admission Pathway - WSTC Science Extended - Natural Science - School Leavers

A7239.1

Specialisation Structure

Students must be enrolled in 7121 - Diploma in Science Extended - Natural Science to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

- 700230.2** Academic Skills for Science (WSTC Prep)
- 700231.3** Fundamentals of Science (WSTC Prep)
- 700232.3** Focus on Biology (WSTC Prep)
- 700287.1** Interpreting Data In Science (WSTC Prep)

Term 2 of Study

Level Z units

- 700043.3** Chemistry (WSTC Prep)
- 700173.2** Tertiary Study Skills in Science (WSTC Prep)

Level 1 units

- 700124.3** Scientific Literacy (WSTC)

Choose one of

- 700095.3** Biodiversity (WSTC)
- 700035.5** Physics 1 (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)

- 700266.2** Concepts in Human Anatomy (WSTC)
- 700265.2** Food Science 1 (WSTC)
- 700096.4** Integrated Science (WSTC)
- 700098.3** Introduction to Physiology (WSTC)
- 700099.3** Resource Sustainability (WSTC)

(700265 Food Science 1 is to be studied in Spring at Hawkesbury campus)

Bachelor of Natural Science (Animal Science or Environmental Management) students must choose 700099 Resource Sustainability (WSTC) and 700096 Integrated Science (WSTC)

Term 4 of Study

- 700125.3** Cell Biology (WSTC)
- 700155.3** Introductory Chemistry (WSTC)

Choose one of

- 700033.5** Biometry (WSTC)
- 700123.4** Quantitative Thinking (WSTC)

Students will graduate with the Diploma after gaining a passing grade in all of the above units.

The College Admission Pathway - WSTC Science Extended - Natural Science - Non-Credentialed

A7240.1**Specialisation Structure**

Students must be enrolled in 7121 - Diploma in Science Extended - Natural Science to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

- 700230.2** Academic Skills for Science (WSTC Prep)
- 700287.1** Interpreting Data In Science (WSTC Prep)
- 700231.3** Fundamentals of Science (WSTC Prep)
- 700232.3** Focus on Biology (WSTC Prep)

Term 2 of Study

Level Z units

- 700043.3** Chemistry (WSTC Prep)
- 700173.2** Tertiary Study Skills in Science (WSTC Prep)

Level 1 units

- 700124.3** Scientific Literacy (WSTC)

Choose one of

- 700095.3** Biodiversity (WSTC)
- 700035.5** Physics 1 (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)

- 700266.2** Concepts in Human Anatomy (WSTC)
- 700265.2** Food Science 1 (WSTC)
- 700096.4** Integrated Science (WSTC)
- 700098.3** Introduction to Physiology (WSTC)
- 700099.3** Resource Sustainability (WSTC)

(700265 Food Science 1 is to be studied in Spring at Hawkesbury campus)

Bachelor of Natural Science (Animal Science or Environmental Management) students must choose 700099 Resource Sustainability (WSTC) and 700096 Integrated Science (WSTC)

Term 4 of Study

- 700125.3** Cell Biology (WSTC)
- 700155.3** Introductory Chemistry (WSTC)

Choose one of

- 700033.5** Biometry (WSTC)
- 700123.4** Quantitative Thinking (WSTC)

Students will graduate with the Diploma after gaining a passing grade in all of the above units.

The College Admission Pathway - WSTC Science Extended - Natural Science - International Students

A7241.1

Specialisation Structure

Students must be enrolled in 7121 - Diploma in Science Extended - Natural Science to complete this specialisation. Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

- 700230.2** Academic Skills for Science (WSTC Prep)
- 700270.1** English for International Students 1 (WSTC Prep)
- 700232.3** Focus on Biology (WSTC Prep)
- 700231.3** Fundamentals of Science (WSTC Prep)
- 700287.1** Interpreting Data In Science (WSTC Prep)

Term 2 of Study

Level Z units

- 700043.3** Chemistry (WSTC Prep)
- 700173.2** Tertiary Study Skills in Science (WSTC Prep)

Level 1 units

- 700124.3** Scientific Literacy (WSTC)

Choose one of

- 700095.3** Biodiversity (WSTC)
- 700035.5** Physics 1 (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)

- 700266.2** Concepts in Human Anatomy (WSTC)
- 700265.2** Food Science 1 (WSTC)
- 700096.4** Integrated Science (WSTC)
- 700098.3** Introduction to Physiology (WSTC)
- 700099.3** Resource Sustainability (WSTC)

(700265 Food Science 1 is to be studied in Spring at Hawkesbury campus)

Bachelor of Natural Science (Animal Science or Environmental Management) students must choose 700099 Resource Sustainability (WSTC) and 700096 Integrated Science (WSTC)

Term 4 of Study

- 700125.3** Cell Biology (WSTC)

- 700155.3** Introductory Chemistry (WSTC)

Choose one of

- 700033.5** Biometry (WSTC)
- 700123.4** Quantitative Thinking (WSTC)

Students will graduate with the Diploma after gaining a passing grade in all of the above units.

The College Admission Pathway - WSTC Science Extended - Science - School Leavers

A7242.1

Specialisation Structure

Students must be enrolled in 7122 - Diploma in Science Extended - Science to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

- 700230.2** Academic Skills for Science (WSTC Prep)
- 700231.3** Fundamentals of Science (WSTC Prep)
- 700232.3** Focus on Biology (WSTC Prep)
- 700287.1** Interpreting Data In Science (WSTC Prep)

Term 2 of Study

Level Z units

- 700043.3** Chemistry (WSTC Prep)
- 700173.2** Tertiary Study Skills in Science (WSTC Prep)

Level 1 units

- 700124.3** Scientific Literacy (WSTC)

Choose one of

- 700095.3** Biodiversity (WSTC)
- 700035.5** Physics 1 (WSTC)

Bachelor of Science (Chemistry) must choose 700035 - Physics 1 (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)

- 700266.2** Concepts in Human Anatomy (WSTC)
- 700265.2** Food Science 1 (WSTC)
- 700096.4** Integrated Science (WSTC)
- 700098.3** Introduction to Physiology (WSTC)
- 700099.3** Resource Sustainability (WSTC)

(700265 Food Science 1 is to be studied in Spring at Hawkesbury campus)

The recommended units to be chosen for each University degree are detailed below

Term 4 of Study

- 700125.3** Cell Biology (WSTC)
700155.3 Introductory Chemistry (WSTC)

Choose one of

- 700033.5** Biometry (WSTC)
700123.4 Quantitative Thinking (WSTC)

The recommended units to be chosen from the five alternate units listed above for each University degree are detailed below

Students planning to progress to Bachelor of Science (Biological Sciences), the following pattern is recommended

- 700095.3** Biodiversity (WSTC)
700125.3 Cell Biology (WSTC)
700122.3 Essential Chemistry 2 (WSTC)
700098.3 Introduction to Physiology (WSTC)
700155.3 Introductory Chemistry (WSTC)
700124.3 Scientific Literacy (WSTC)

Choose one of

- 700033.5** Biometry (WSTC)
700123.4 Quantitative Thinking (WSTC)

Choose one of

- 700096.4** Integrated Science (WSTC)
700099.3 Resource Sustainability (WSTC)

Students planning to progress to Bachelor of Science (Chemistry) must choose

- 700124.3** Scientific Literacy (WSTC)
700122.3 Essential Chemistry 2 (WSTC)
700035.5 Physics 1 (WSTC)
700155.3 Introductory Chemistry (WSTC)

Choose four of

- 700095.3** Biodiversity (WSTC)
700033.5 Biometry (WSTC)
700125.3 Cell Biology (WSTC)
700096.4 Integrated Science (WSTC)
700098.3 Introduction to Physiology (WSTC)
700123.4 Quantitative Thinking (WSTC)
700099.3 Resource Sustainability (WSTC)

Students planning to progress to Bachelor of Science must choose

- 700124.3** Scientific Literacy (WSTC)

Choose one of

- 700033.5** Biometry (WSTC)
700123.4 Quantitative Thinking (WSTC)

Choose six of

- 700095.3** Biodiversity (WSTC)
700125.3 Cell Biology (WSTC)
700122.3 Essential Chemistry 2 (WSTC)
700096.4 Integrated Science (WSTC)
700098.3 Introduction to Physiology (WSTC)
700155.3 Introductory Chemistry (WSTC)

- 700099.3** Resource Sustainability (WSTC)

Please note that choices in first year will impact on available majors in second year. It is recommended that students seek academic advice if taking this sequence.

Students planning to progress to Bachelor of Science (Forensic Science) must choose

- 700095.3** Biodiversity (WSTC)
700033.5 Biometry (WSTC)
700125.3 Cell Biology (WSTC)
700266.2 Concepts in Human Anatomy (WSTC)
700122.3 Essential Chemistry 2 (WSTC)
700155.3 Introductory Chemistry (WSTC)
700124.3 Scientific Literacy (WSTC)

Choose one of

- 700098.3** Introduction to Physiology (WSTC)
700096.4 Integrated Science (WSTC)
700123.4 Quantitative Thinking (WSTC)
700099.3 Resource Sustainability (WSTC)

Students planning to progress to Bachelor of Science (Nutrition and Food Science) must choose

- 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)
700123.4 Quantitative Thinking (WSTC)
700124.3 Scientific Literacy (WSTC)

Choose one of

- 700033.5** Biometry (WSTC)
700096.4 Integrated Science (WSTC)
700098.3 Introduction to Physiology (WSTC)
700099.3 Resource Sustainability (WSTC)

Students planning to progress to Bachelor of Science (Environmental Science) must choose

- 700095.3** Biodiversity (WSTC)
700125.3 Cell Biology (WSTC)
700122.3 Essential Chemistry 2 (WSTC)
700155.3 Introductory Chemistry (WSTC)
700099.3 Resource Sustainability (WSTC)
700124.3 Scientific Literacy (WSTC)

Choose one of

- 700033.5** Biometry (WSTC)
700123.4 Quantitative Thinking (WSTC)

Choose one of

- 700096.4** Integrated Science (WSTC)
700098.3 Introduction to Physiology (WSTC)

Students planning to progress to Bachelor of Science (Zoology) must choose

- 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)

Choose one of

- 700033.5** Biometry (WSTC)
700155.3 Introductory Chemistry (WSTC)

Choose two of

- 700096.4** Integrated Science (WSTC)
700098.3 Introduction to Physiology (WSTC)
700099.3 Resource Sustainability (WSTC)

Students will graduate with the Diploma after gaining a passing grade in all of the above units.

The College Admission Pathway - WSTC Science Extended - Science - Non-Credentialed Students

A7243.1

Specialisation Structure

Students must be enrolled in 7122 - Diploma in Science Extended - Science to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

- 700230.2** Academic Skills for Science (WSTC Prep)
700232.3 Focus on Biology (WSTC Prep)
700231.3 Fundamentals of Science (WSTC Prep)
700287.1 Interpreting Data In Science (WSTC Prep)

Term 2 of Study

Level Z units

- 700043.3** Chemistry (WSTC Prep)
700173.2 Tertiary Study Skills in Science (WSTC Prep)

Level 1 units

- 700124.3** Scientific Literacy (WSTC)

Choose one of

- 700095.3** Biodiversity (WSTC)
700035.5 Physics 1 (WSTC)

Bachelor of Science (Chemistry) must choose 700035 - Physics 1 (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)

- 700266.2** Concepts in Human Anatomy (WSTC)
700265.2 Food Science 1 (WSTC)
700096.4 Integrated Science (WSTC)
700098.3 Introduction to Physiology (WSTC)
700099.3 Resource Sustainability (WSTC)

(700265 Food Science 1 is to be studied in Spring at Hawkesbury campus)

The recommended units to be chosen for each University degree are detailed below

Term 4 of Study

- 700125.3** Cell Biology (WSTC)
700155.3 Introductory Chemistry (WSTC)

Choose one of

- 700033.5** Biometry (WSTC)
700123.4 Quantitative Thinking (WSTC)

The recommended units to be chosen from the five alternate units listed above for each University degree are detailed below

Students planning to progress to Bachelor of Science (Biological Sciences), the following pattern is recommended

- 700095.3** Biodiversity (WSTC)
700125.3 Cell Biology (WSTC)
700122.3 Essential Chemistry 2 (WSTC)
700098.3 Introduction to Physiology (WSTC)
700155.3 Introductory Chemistry (WSTC)
700124.3 Scientific Literacy (WSTC)

Choose one of

- 700033.5** Biometry (WSTC)
700123.4 Quantitative Thinking (WSTC)

Choose one of

- 700096.4** Integrated Science (WSTC)
700099.3 Resource Sustainability (WSTC)

Students planning to progress to Bachelor of Science (Chemistry) must choose

- 700122.3** Essential Chemistry 2 (WSTC)
700155.3 Introductory Chemistry (WSTC)
700035.5 Physics 1 (WSTC)
700124.3 Scientific Literacy (WSTC)

Choose four of

- 700033.5** Biometry (WSTC)
700095.3 Biodiversity (WSTC)
700125.3 Cell Biology (WSTC)
700096.4 Integrated Science (WSTC)
700098.3 Introduction to Physiology (WSTC)
700123.4 Quantitative Thinking (WSTC)
700099.3 Resource Sustainability (WSTC)

Students planning to progress to Bachelor of Science must choose

- 700124.3** Scientific Literacy (WSTC)

Choose one of

- 700033.5** Biometry (WSTC)
700123.4 Quantitative Thinking (WSTC)

Choose six of

- 700095.3** Biodiversity (WSTC)
700125.3 Cell Biology (WSTC)
700122.3 Essential Chemistry 2 (WSTC)

700096.4	Integrated Science (WSTC)
700098.3	Introduction to Physiology (WSTC)
700155.3	Introductory Chemistry (WSTC)
700099.3	Resource Sustainability (WSTC)

Please note that choices in first year will impact on available majors in second year. It is recommended that students seek academic advice if taking this sequence.

Students planning to progress to Bachelor of Science (Forensic Science) must choose

700095.3	Biodiversity (WSTC)
700033.5	Biometry (WSTC)
700125.3	Cell Biology (WSTC)
700266.2	Concepts in Human Anatomy (WSTC)
700122.3	Essential Chemistry 2 (WSTC)
700155.3	Introductory Chemistry (WSTC)
700124.3	Scientific Literacy (WSTC)

Choose one of

700098.3	Introduction to Physiology (WSTC)
700096.4	Integrated Science (WSTC)
700123.4	Quantitative Thinking (WSTC)
700099.3	Resource Sustainability (WSTC)

Students planning to progress to Bachelor of Science (Nutrition and Food Science) must choose

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)
700123.4	Quantitative Thinking (WSTC)
700124.3	Scientific Literacy (WSTC)

Choose one of

700033.5	Biometry (WSTC)
700096.4	Integrated Science (WSTC)
700098.3	Introduction to Physiology (WSTC)
700099.3	Resource Sustainability (WSTC)

Students planning to progress to Bachelor of Science (Environmental Science) must choose

700095.3	Biodiversity (WSTC)
700125.3	Cell Biology (WSTC)
700122.3	Essential Chemistry 2 (WSTC)
700155.3	Introductory Chemistry (WSTC)
700099.3	Resource Sustainability (WSTC)
700124.3	Scientific Literacy (WSTC)

Choose one of

700033.5	Biometry (WSTC)
700123.4	Quantitative Thinking (WSTC)

Choose one of

700096.4	Integrated Science (WSTC)
700098.3	Introduction to Physiology (WSTC)

Students planning to progress to Bachelor of Science (Zoology) must choose

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)
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Choose one of

700033.5	Biometry (WSTC)
700155.3	Introductory Chemistry (WSTC)

Choose two of

700096.4	Integrated Science (WSTC)
700098.3	Introduction to Physiology (WSTC)
700099.3	Resource Sustainability (WSTC)

Students will graduate with the Diploma after gaining a passing grade in all of the above units.

The College Admission Pathway - WSTC Science Extended - Science - International Students

A7244.1

Specialisation Structure

Students must be enrolled in 7122 - Diploma in Science Extended - Science to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

700230.2	Academic Skills for Science (WSTC Prep)
700270.1	English for International Students 1 (WSTC Prep)
700232.3	Focus on Biology (WSTC Prep)
700231.3	Fundamentals of Science (WSTC Prep)
700287.1	Interpreting Data In Science (WSTC Prep)

Term 2 of Study

Level Z units

700043.3	Chemistry (WSTC Prep)
700173.2	Tertiary Study Skills in Science (WSTC Prep)

Level 1 units

700124.3	Scientific Literacy (WSTC)
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Choose one of

700095.3	Biodiversity (WSTC)
700035.5	Physics 1 (WSTC)

Bachelor of Science (Chemistry) must choose 700035 - Physics 1 (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)

700266.2	Concepts in Human Anatomy (WSTC)
700265.2	Food Science 1 (WSTC)
700096.4	Integrated Science (WSTC)
700098.3	Introduction to Physiology (WSTC)
700099.3	Resource Sustainability (WSTC)

(700265 Food Science 1 is to be studied in Spring at Hawkesbury campus)

The recommended units to be chosen for each University degree are detailed below

Term 4 of Study

700125.3	Cell Biology (WSTC)
700155.3	Introductory Chemistry (WSTC)

Choose one of

700033.5	Biometry (WSTC)
700123.4	Quantitative Thinking (WSTC)

The recommended units to be chosen from the five alternate units listed above for each University degree are detailed below

Students planning to progress to Bachelor of Science (Biological Sciences), the following pattern is recommended

700095.3	Biodiversity (WSTC)
700125.3	Cell Biology (WSTC)
700122.3	Essential Chemistry 2 (WSTC)
700098.3	Introduction to Physiology (WSTC)
700155.3	Introductory Chemistry (WSTC)
700124.3	Scientific Literacy (WSTC)

Choose one of

700123.4	Quantitative Thinking (WSTC)
700033.5	Biometry (WSTC)

Choose one of

700096.4	Integrated Science (WSTC)
700099.3	Resource Sustainability (WSTC)

Students planning to progress to Bachelor of Science (Chemistry) must choose

700122.3	Essential Chemistry 2 (WSTC)
700155.3	Introductory Chemistry (WSTC)
700035.5	Physics 1 (WSTC)
700124.3	Scientific Literacy (WSTC)

Choose four of

700033.5	Biometry (WSTC)
700095.3	Biodiversity (WSTC)
700125.3	Cell Biology (WSTC)
700096.4	Integrated Science (WSTC)
700098.3	Introduction to Physiology (WSTC)
700123.4	Quantitative Thinking (WSTC)
700099.3	Resource Sustainability (WSTC)

Students planning to progress to Bachelor of Science must choose

700124.3	Scientific Literacy (WSTC)
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Choose one of

700033.5	Biometry (WSTC)
700123.4	Quantitative Thinking (WSTC)

Choose six of

700095.3	Biodiversity (WSTC)
700125.3	Cell Biology (WSTC)
700122.3	Essential Chemistry 2 (WSTC)
700096.4	Integrated Science (WSTC)
700098.3	Introduction to Physiology (WSTC)
700155.3	Introductory Chemistry (WSTC)
700099.3	Resource Sustainability (WSTC)

Please note that choices in first year will impact on available majors in second year. It is recommended that students seek academic advice if taking this sequence.

Students planning to progress to Bachelor of Science (Forensic Science) must choose

700033.5	Biometry (WSTC)
700095.3	Biodiversity (WSTC)
700125.3	Cell Biology (WSTC)
700266.2	Concepts in Human Anatomy (WSTC)
700122.3	Essential Chemistry 2 (WSTC)
700155.3	Introductory Chemistry (WSTC)
700124.3	Scientific Literacy (WSTC)

Choose one of

700098.3	Introduction to Physiology (WSTC)
700096.4	Integrated Science (WSTC)
700123.4	Quantitative Thinking (WSTC)
700099.3	Resource Sustainability (WSTC)

Students planning to progress to Bachelor of Science (Nutrition and Food Science) must choose

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)
700123.4	Quantitative Thinking (WSTC)
700124.3	Scientific Literacy (WSTC)

Choose one of

700033.5	Biometry (WSTC)
700096.4	Integrated Science (WSTC)
700098.3	Introduction to Physiology (WSTC)
700099.3	Resource Sustainability (WSTC)

Students planning to progress to Bachelor of Science (Environmental Science) must choose

700095.3	Biodiversity (WSTC)
700125.3	Cell Biology (WSTC)
700122.3	Essential Chemistry 2 (WSTC)
700155.3	Introductory Chemistry (WSTC)
700099.3	Resource Sustainability (WSTC)
700124.3	Scientific Literacy (WSTC)

Choose one of

700033.5	Biometry (WSTC)
700123.4	Quantitative Thinking (WSTC)

Choose one of

700096.4	Integrated Science (WSTC)
700098.3	Introduction to Physiology (WSTC)

Students planning to progress to Bachelor of Science (Zoology) must choose

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)

Choose one of

700033.5	Biometry (WSTC)
700155.3	Introductory Chemistry (WSTC)

Choose two of

700096.4	Integrated Science (WSTC)
700098.3	Introduction to Physiology (WSTC)
700099.3	Resource Sustainability (WSTC)

Students will graduate with the Diploma after gaining a passing grade in all of the above units.

The College Admission Pathway - WSTC Science Extended - Medical Science - Recent School Leavers

A7260.1

Specialisation Structure

Students must be enrolled in 7120 - Diploma in Science Extended - Medical Science to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

700230.2	Academic Skills for Science (WSTC Prep)
700232.3	Focus on Biology (WSTC Prep)
700231.3	Fundamentals of Science (WSTC Prep)
700287.1	Interpreting Data In Science (WSTC Prep)

Term 2 of Study

Level Z units

700043.3	Chemistry (WSTC Prep)
700173.2	Tertiary Study Skills in Science (WSTC Prep)

Level 1 units

700095.3	Biodiversity (WSTC)
700124.3	Scientific Literacy (WSTC)

Term 3 of Study

700122.3	Essential Chemistry 2 (WSTC)
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** And two more units from the following five units (depending on which major students are progressing to):

700266.2	Concepts in Human Anatomy (WSTC)
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700265.2	Food Science 1 (WSTC)
700096.4	Integrated Science (WSTC)
700098.3	Introduction to Physiology (WSTC)
700099.3	Resource Sustainability (WSTC)

(700265 Food Science 1 is to be studied in Spring at Hawkesbury campus)

** The recommended units to be chosen from the above five alternate units listed above for each University degree are detailed below: Students progressing to B Medical Science (with a major in Medicinal Chemistry or Anatomy and Physiology or Biomedical Science) must choose: 700098 Introduction to Physiology (WSTC) 700266 Concepts in Human Anatomy (WSTC)

Term 4 of Study

700125.3	Cell Biology (WSTC)
700155.3	Introductory Chemistry (WSTC)
700123.4	Quantitative Thinking (WSTC)

Students will graduate with the Diploma after gaining a passing grade in all of the above units.

The College Admission Pathway - WSTC Science Extended - Medical Science - Non-Credentialed

A7261.1

Specialisation Structure

Students must be enrolled in 7120 - Diploma in Science Extended - Medical Science to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

700230.2	Academic Skills for Science (WSTC Prep)
700231.3	Fundamentals of Science (WSTC Prep)
700232.3	Focus on Biology (WSTC Prep)
700287.1	Interpreting Data In Science (WSTC Prep)

Term 2 of Study

Level Z units

700043.3	Chemistry (WSTC Prep)
700173.2	Tertiary Study Skills in Science (WSTC Prep)

Level 1 units

700095.3	Biodiversity (WSTC)
700124.3	Scientific Literacy (WSTC)

Term 3 of Study

700122.3	Essential Chemistry 2 (WSTC)
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** And two more units from the following five units (depending on which major students are progressing to):

700266.2	Concepts in Human Anatomy (WSTC)
700265.2	Food Science 1 (WSTC)
700096.4	Integrated Science (WSTC)
700098.3	Introduction to Physiology (WSTC)
700099.3	Resource Sustainability (WSTC)

(700265 Food Science 1 is to be studied in Spring at Hawkesbury campus)

** The recommended units to be chosen from the above five alternate units listed above for each University degree are detailed below: Students progressing to B Medical Science (with a major in Medicinal Chemistry or Anatomy and Physiology or Biomedical Science) must choose: 700098 Introduction to Physiology (WSTC) 700266 Concepts in Human Anatomy (WSTC)

Term 4 of Study

700125.3	Cell Biology (WSTC)
700155.3	Introductory Chemistry (WSTC)
700123.4	Quantitative Thinking (WSTC)

Students will graduate with the Diploma after gaining a passing grade in all of the above units.

The College Admission Pathway - WSTC Science Extended - Medical Science - International

A7262.1

Specialisation Structure

Students must be enrolled in 7120 - Diploma in Science Extended - Medical Science to complete this specialisation.

Students must pass all Preparatory units (WSTC Prep) for which no advanced standing will be granted in the University degree program.

Students must pass 40 credit points from the following Preparatory units (Level Z) prior to enrolling in the University level units (WSTC) listed below.

Term 1 of Study

Level Z units

700230.2	Academic Skills for Science (WSTC Prep)
700270.1	English for International Students 1 (WSTC Prep)
700231.3	Fundamentals of Science (WSTC Prep)
700232.3	Focus on Biology (WSTC Prep)
700287.1	Interpreting Data In Science (WSTC Prep)

Term 2 of Study

Level Z units

700043.3	Chemistry (WSTC Prep)
700173.2	Tertiary Study Skills in Science (WSTC Prep)

Level 1 units

700124.3	Scientific Literacy (WSTC)
700095.3	Biodiversity (WSTC)

Term 3 of Study

700122.3	Essential Chemistry 2 (WSTC)
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** And two more units from the following five units (depending on which major students are progressing to):

700266.2	Concepts in Human Anatomy (WSTC)
700265.2	Food Science 1 (WSTC)
700096.4	Integrated Science (WSTC)
700098.3	Introduction to Physiology (WSTC)
700099.3	Resource Sustainability (WSTC)

(700265 Food Science 1 is to be studied in Spring at Hawkesbury campus)

** The recommended units to be chosen from the above five alternate units listed above for each University degree are detailed below: Students progressing to B Medical Science (with a major in Medicinal Chemistry or Anatomy and Physiology or Biomedical Science) must choose: 700098 Introduction to Physiology (WSTC) 700266 Concepts in Human Anatomy (WSTC)

Term 4 of Study

700125.3	Cell Biology (WSTC)
700155.3	Introductory Chemistry (WSTC)
700123.4	Quantitative Thinking (WSTC)

Students will graduate with the Diploma after gaining a passing grade in all of the above units.

The College Admission Pathway - WSTC Science Extended - Medical Science - 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)

From T3 2021, 700122 Essential Chemistry 2 is replaced by 700333 Essential Chemistry

700333.1 Essential Chemistry (WSTC)
700295.1 Concepts in Human Physiology (WSTC)

Choose one of

700266.2 Concepts in Human Anatomy (WSTC)
700334.1 Introduction to Food Science (WSTC)

Term 4 of Study

700125.3 Cell Biology (WSTC)
700155.3 Introductory Chemistry (WSTC)
700123.4 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)

Level 1 units

700124.3 Scientific Literacy (WSTC)
700095.3 Biodiversity (WSTC)

Term 3 of Study

700122.3 Essential Chemistry 2 (WSTC)

From T3 2021, 700122 Essential Chemistry 2 is replaced by 700333 Essential Chemistry

700333.1 Essential Chemistry (WSTC)
700295.1 Concepts in Human Physiology (WSTC)

Choose one of

700266.2 Concepts in Human Anatomy (WSTC)
700334.1 Introduction to Food Science (WSTC)

Term 4 of Study

700125.3 Cell Biology (WSTC)
700155.3 Introductory Chemistry (WSTC)
700123.4 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)

Level 1 units

700124.3 Scientific Literacy (WSTC)
700095.3 Biodiversity (WSTC)

Term 3 of Study

700122.3 Essential Chemistry 2 (WSTC)

From T3 2021, 700122 Essential Chemistry 2 is replaced by 700333 Essential Chemistry

- 700333.1** Essential Chemistry (WSTC)
700295.1 Concepts in Human Physiology (WSTC)

Choose one of

- 700266.2** Concepts in Human Anatomy (WSTC)
700334.1 Introduction to Food Science (WSTC)

Term 4 of Study

- 700125.3** Cell Biology (WSTC)
700155.3 Introductory Chemistry (WSTC)
700123.4 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)

Level 1 units

- 700124.3** Scientific Literacy (WSTC)
700095.3 Biodiversity (WSTC)

Term 3 of Study

- 700122.3** Essential Chemistry 2 (WSTC)

From Term 1 2022 700122 - Essential Chemistry 2 will be replaced by 700333 - Essential Chemistry

700333.1 Essential Chemistry (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)

From Spring 2022 700265 - Food Science 1 will be replaced by 700334 - Introduction to Food Science

- 700334.1** Introduction to Food Science (WSTC)
700298.1 Water Quality Assessment and Management (WSTC)

(700265 Food Science 1, 700334 Introduction to Food Science (WSTC) and 700298 Water Quality Assessment and Management is to be studied in Spring at Hawkesbury campus)

- 700329.1** Digital Forensic Photography (WSTC)
700330.1 Forensic Science (WSTC)

Term 4 of Study

- 700125.3** Cell Biology (WSTC)
700155.3 Introductory Chemistry (WSTC)
700123.4 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)

From Term 1 2022 700122 - Essential Chemistry 2 will be replaced by 700333 - Essential Chemistry

700333.1 Essential Chemistry (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)

From Spring 2022 700265 - Food Science 1 will be replaced by 700334 - Introduction to Food Science

700334.1 Introduction to Food Science (WSTC)**700298.1** Water Quality Assessment and Management (WSTC)

(700265 Food Science 1, 700334 Introduction to Food Science (WSTC) and 700298 Water Quality Assessment and Management is to be studied in Spring at Hawkesbury campus)

700329.1 Digital Forensic Photography (WSTC)**700330.1** Forensic Science (WSTC)**Term 4 of Study****700125.3** Cell Biology (WSTC)**700155.3** Introductory Chemistry (WSTC)**700123.4** 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)

From Term 1 2022 700122 - Essential Chemistry 2 will be replaced by 700333 - Essential Chemistry

700330.1 Forensic Science (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)

From Spring 2022 700265 - Food Science 1 will be replaced by 700334 - Introduction to Food Science

700334.1 Introduction to Food Science (WSTC)**700298.1** Water Quality Assessment and Management (WSTC)

(700265 Food Science 1, 700334 Introduction to Food Science (WSTC) and 700298 Water Quality Assessment and Management is to be studied in Spring at Hawkesbury campus)

700329.1 Digital Forensic Photography (WSTC)**700330.1** Forensic Science (WSTC)**Term 4 of Study****700125.3** Cell Biology (WSTC)**700155.3** Introductory Chemistry (WSTC)**700123.4** Quantitative Thinking (WSTC)

Students will graduate with the Diploma after gaining a passing grade in all of the above units.

Key Program - General Program

KP3027.1

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students completing the Bachelor of Science (Advanced Science) General will complete the following course structure.

Qualifying for this award requires successful completion of 240 credit points within the following rules.

Level 1

Six Level 1 science core units must be completed by including the following

- at least one mathematics or statistics unit
- one academic skills unit
- at least four other science foundation units from the unit set structure below, which must come from a further two science disciplines out of the following: Biology, Chemistry, Computer Science or Physics

Levels 2 and 3

- at least thirteen more science units must be selected from the unit set structure below; three of these must be Advanced Science Project units
- at least one Major specialisation must be completed
- at least 60 credit points must be taken at Level 3, of which at least 40 credit points must be for science units taken from the unit set structure below
- 300924 Science Research Project must be completed as the capstone unit

Students must complete at least one of the following majors

- Hawkesbury: Marine Biology, Biochemistry and Molecular Biology, Climate Change, Conservation Biology, Environmental Consulting, Forensic Science, Microbiology, General Biology, Nutrition and Physiology, Zoology. Please note: the Mathematics major cannot be completed on Hawkesbury campus.
- Parramatta: Biochemistry and Molecular Biology, Chemistry, General Biology, Mathematics
- Campbelltown: Biochemistry and Molecular Biology, Chemistry, General Biology, Mathematics

Hawkesbury Campus

Year 1

Autumn session

Non-mathematics majors: choose at least one appropriate mathematics or statistics unit in your first year.

Students cannot do a mathematics major on the Hawkesbury campus.

300811.2 Scientific Literacy

Choose three of

300802.3 Biodiversity
300800.3 Essential Chemistry 1
300828.2 Physics 1
300831.5 Quantitative Thinking

Or

300808.3 Introductory Chemistry

Note: Only one chemistry unit may be selected

External offering only

300830.3 Analysis of Change
200263.6 Biometry

Spring session

Choose at least two of

300830.3 Analysis of Change
200263.6 Biometry
300816.2 Cell Biology
300803.2 Essential Chemistry 2
300818.1 Introduction to Physiology
300831.5 Quantitative Thinking

And two electives

Year 2

Autumn session

300937.2 Advanced Science Project A

Choose at least three of

300837.2 Climate Change Science
300843.2 Forensic and Environmental Analysis
300936.2 Functional Proteins and Genes
300845.2 Genetics
300931.2 Integrated Science
300833.3 Microbiology 1
300865.2 Plant Physiology
300980.2 Principles of Evolution
300876.2 Organic Chemistry

Spring session

300938.2 Advanced Science Project B

Choose at least three of

300836.2 Botany
300838.2 Comparative Physiology
300839.2 Ecology

300959.2 Mangamai'bangawarra: Indigenous Science
300848.2 Metabolism
300896.2 Microbiology 2
300817.2 Molecular Biology
300876.2 Organic Chemistry
300979.2 Principles of Zoology

Or

300808.3 Introductory Chemistry

Note: Only one chemistry unit may be selected

External offering only

200263.6 Biometry

Year 3

Autumn session

300910.2 Advanced Science Project C

Choose at least two of

300850.2 Advanced Cell Biology
300857.1 Environmental Geochemistry
300820.3 Genes, Genomics and Human Health
300919.2 Occupational Health and Safety
300921.2 Plant Health and Biosecurity

Please note unit 300857 replaced by 301212 Science of the Anthropocene from 2019.

300866.2 Analytical Microbiology
300851.1 Advanced Physiology
300856.2 Ecosystem Carbon Accounting
300978.2 Marine and Aquatic Ecology
301212.2 Science of the Anthropocene

And one elective

Spring session

300924.2 Science Research Project

Choose at least two of

300905.2 Advanced Immunology
300909.2 Biological Adaptation to Climate Change
300855.2 Conservation Biology
300918.4 Invertebrate Biology
300883.2 Laboratory Quality Management
300826.3 Medical Microbiology
300927.3 Molecular Medicine
300861.2 Vertebrate Biodiversity

And one elective

Parramatta Campus

Year 1

Autumn session

Non-mathematics majors: choose at least one appropriate mathematics or statistics unit in your first year

300811.2 Scientific Literacy

Choose three of

300830.3 Analysis of Change
300802.3 Biodiversity
200025.3 Discrete Mathematics
300800.3 Essential Chemistry 1
300672.3 Mathematics 1A
300828.2 Physics 1
300580.4 Programming Fundamentals
300831.5 Quantitative Thinking

Spring session

Choose at least two of

200263.6 Biometry
300816.2 Cell Biology
301031.3 Computer Algebra
300803.2 Essential Chemistry 2
300818.1 Introduction to Physiology
300672.3 Mathematics 1A
300673.3 Mathematics 1B
300829.2 Physics 2
300580.4 Programming Fundamentals

External offering only

300830.3 Analysis of Change
300831.5 Quantitative Thinking

And two electives

Year 2

Autumn session

300937.2 Advanced Science Project A

Choose at least three of

200028.4 Advanced Calculus
300832.2 Analytical Chemistry
300936.2 Functional Proteins and Genes
300845.2 Genetics
300931.2 Integrated Science
301033.2 Introduction to Data Science
200027.4 Linear Algebra
300833.3 Microbiology 1
300876.2 Organic Chemistry
300865.2 Plant Physiology

Spring session

300938.2 Advanced Science Project B

Choose at least three of

300838.2 Comparative Physiology
200030.5 Differential Equations
300839.2 Ecology
300847.2 Immunology
300899.2 Inorganic Chemistry
301032.2 Making Sense of Data
300848.2 Metabolism
300896.2 Microbiology 2
300817.2 Molecular Biology
300849.3 Physical Chemistry

Year 3

Autumn session

300910.2 Advanced Science Project C

Choose at least two of

- 200193.3** Abstract Algebra
- 300850.2** Advanced Cell Biology
- 300907.2** Advanced Inorganic Chemistry
- 300851.1** Advanced Physiology
- 300926.2** Advanced Physical Chemistry
- 200023.4** Analysis
- 300857.1** Environmental Geochemistry
- 300820.3** Genes, Genomics and Human Health
- 301034.2** Predictive Modelling

And one elective

Spring session

Choose at least one Capstone unit

- 200045.4** Quantitative Project
- 300924.2** Science Research Project

Choose at least two of

- 300925.2** Advanced Analytical Chemistry
- 300905.2** Advanced Immunology
- 300906.2** Advanced Organic Chemistry
- 300855.2** Conservation Biology
- 301035.2** Environmental Informatics
- 200022.4** Mathematical Modelling
- 300826.3** Medical Microbiology

And one elective

Campbelltown Campus**Year 1****Autumn session**

Non-mathematics majors: choose at least one mathematics or statistics unit in your first year

- 300811.2** Scientific Literacy

Choose three of

- 300830.3** Analysis of Change
- 300802.3** Biodiversity
- 200263.6** Biometry
- 200025.3** Discrete Mathematics
- 300800.3** Essential Chemistry 1
- 300672.3** Mathematics 1A
- 300828.2** Physics 1
- 300580.4** Programming Fundamentals
- 300831.5** Quantitative Thinking

Or

- 300808.3** Introductory Chemistry

Note: Only one chemistry unit may be selected

Spring session

Choose at least two of

- 300830.3** Analysis of Change
- 200263.6** Biometry
- 300816.2** Cell Biology
- 301031.3** Computer Algebra
- 300803.2** Essential Chemistry 2

- 300818.1** Introduction to Physiology
- 300672.3** Mathematics 1A
- 300673.3** Mathematics 1B
- 300829.2** Physics 2
- 300580.4** Programming Fundamentals
- 300831.5** Quantitative Thinking

And two electives

Year 2**Autumn session**

- 300937.2** Advanced Science Project A

Choose at least three of

- 200028.4** Advanced Calculus
- 300832.2** Analytical Chemistry
- 300930.2** Classical Physics and Advanced Technologies
- 300936.2** Functional Proteins and Genes
- 300845.2** Genetics
- 300931.2** Integrated Science
- 301033.2** Introduction to Data Science
- 200027.4** Linear Algebra
- 300833.3** Microbiology 1
- 300876.2** Organic Chemistry

Spring Session

- 300938.2** Advanced Science Project B

Choose at least three of

- 300838.2** Comparative Physiology
- 200030.5** Differential Equations
- 300839.2** Ecology
- 300848.2** Metabolism
- 300847.2** Immunology
- 300896.2** Microbiology 2
- 300899.2** Inorganic Chemistry
- 301032.2** Making Sense of Data
- 300817.2** Molecular Biology
- 300849.3** Physical Chemistry

Year 3**Autumn session**

- 300910.2** Advanced Science Project C

Choose at least two of

- 200193.3** Abstract Algebra
- 300850.2** Advanced Cell Biology
- 300907.2** Advanced Inorganic Chemistry
- 300851.1** Advanced Physiology
- 200023.4** Analysis
- 300820.3** Genes, Genomics and Human Health
- 300912.2** Molecular Pharmacokinetics
- 301034.2** Predictive Modelling
- 300819.2** Topics in Physiology

And one elective

Spring session

Choose at least one Capstone unit

- 200045.4** Quantitative Project

300924.2 Science Research Project

Choose at least two of

- 300925.2** Advanced Analytical Chemistry
- 300905.2** Advanced Immunology
- 300906.2** Advanced Organic Chemistry
- 301035.2** Environmental Informatics
- 200022.4** Mathematical Modelling
- 300826.3** Medical Microbiology
- 300927.3** Molecular Medicine
- 301392.1** Quantum Physics

Note: from 2021 this unit replaces 300923 Quantum Physics

And one elective

Key Program - Biological Science**KT3128.1**

The biological sciences are diverse, fascinating, rapidly changing, and essential to our understanding of living systems at scales ranging from the molecular to the global. They play a vital role in our understanding of the environment, as well as animals, plants and micro-organisms, and are essential to a wide range of contemporary industries. A Bachelor of Science (Biological Science) offers a solid foundation in the basic sciences, including biology, microbiology, biochemistry and environmental science. You will be equipped to enter government, industry or research-based employment in this area (e.g. biotechnology companies, pathology, quality assurance, university and hospital laboratories, scientific sales and government agencies).

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students completing the Bachelor of Science (Advanced Science) (Biological Science) will complete the following course structure.

Note: At least 60 credit points must be at Level 3 or above

Year 1**Autumn session**

- 300802.3** Biodiversity
- 300811.2** Scientific Literacy

Choose one of

- 300800.3** Essential Chemistry 1
- 300808.3** Introductory Chemistry

Choose one of

- 300830.3** Analysis of Change
- 200263.6** Biometry
- 300672.3** Mathematics 1A
- 300831.5** Quantitative Thinking

Spring session

- 300816.2** Cell Biology
- 300803.2** Essential Chemistry 2
- 300818.1** Introduction to Physiology

And one elective

Year 2**Autumn session**

- 300937.2** Advanced Science Project A
- 300936.2** Functional Proteins and Genes
- 300833.3** Microbiology 1

Choose one of

- 300845.2** Genetics

Hawkesbury campus only

- 300980.2** Principles of Evolution

Spring session

- 300938.2** Advanced Science Project B
- 300817.2** Molecular Biology

Choose two more Level 2 science units from the list below

- 300832.2** Analytical Chemistry
- 300838.2** Comparative Physiology
- 300839.2** Ecology
- 300847.2** Immunology
- 301033.2** Introduction to Data Science
- 301032.2** Making Sense of Data
- 300959.2** Mangamai'bangawarra: Indigenous Science
- 300848.2** Metabolism
- 300896.2** Microbiology 2
- 300876.2** Organic Chemistry

Hawkesbury only

- 300836.2** Botany
- 300979.2** Principles of Zoology

Year 3**Autumn session**

- 300910.2** Advanced Science Project C

And one Level 3 elective unit

Hawkesbury Campus

Choose at least two of

- 300850.2** Advanced Cell Biology
- 300851.1** Advanced Physiology
- 300866.2** Analytical Microbiology
- 300837.2** Climate Change Science
- 300856.2** Ecosystem Carbon Accounting
- 300820.3** Genes, Genomics and Human Health
- 300978.2** Marine and Aquatic Ecology
- 300919.2** Occupational Health and Safety
- 300921.2** Plant Health and Biosecurity
- 300865.2** Plant Physiology

Parramatta Campus

Choose at least two of

- 300850.2** Advanced Cell Biology
- 300851.1** Advanced Physiology
- 300820.3** Genes, Genomics and Human Health
- 300865.2** Plant Physiology

Campbelltown Campus

Choose at least two of

- 300850.2** Advanced Cell Biology
- 300851.1** Advanced Physiology
- 300820.3** Genes, Genomics and Human Health
- 300819.2** Topics in Physiology

Spring session

Capstone unit

- 300924.2** Science Research Project

And one Level 3 elective unit

Hawkesbury Campus

Choose at least two of

- 300905.2** Advanced Immunology
- 300909.2** Biological Adaptation to Climate Change
- 300855.2** Conservation Biology
- 300918.4** Invertebrate Biology
- 300883.2** Laboratory Quality Management
- 300826.3** Medical Microbiology
- 300927.3** Molecular Medicine
- 300861.2** Vertebrate Biodiversity

Parramatta Campus

Choose at least two of

- 300905.2** Advanced Immunology
- 300855.2** Conservation Biology
- 300826.3** Medical Microbiology

Campbelltown Campus

Choose at least two of

- 300905.2** Advanced Immunology
- 300826.3** Medical Microbiology
- 300927.3** Molecular Medicine

Key Program - Chemistry

KT3129.1

A Bachelor of Science (Chemistry) will prepare you to take part in a process of inquiry, by both contributing to it and by using scientific knowledge to solve current problems. The Chemistry program provides a strong background in the key topic areas of contemporary chemistry, including

aspects of chemical theory in analytical, inorganic, organic and physical chemistry, with a strong emphasis on practical laboratory skills, and applications in contemporary research, industry and the environment. A research project is available to students in the final year of the degree preparing you for a professional career in a wide range of chemistry based industries.

Location

Campus	Mode
Hawkesbury Campus	Multi Modal

Specialisation Structure

Students completing the Bachelor of Science (Advanced Science) (Chemistry) will complete the following course structure.

Year 1

Autumn session

- 300800.3** Essential Chemistry 1
- 300811.2** Scientific Literacy
- 300828.2** Physics 1

Choose one of

- 300830.3** Analysis of Change
- 300802.3** Biodiversity
- 200263.6** Biometry
- 200025.3** Discrete Mathematics
- 300580.4** Programming Fundamentals
- 300831.5** Quantitative Thinking

Spring session

- 300803.2** Essential Chemistry 2

Choose one of

- 300830.3** Analysis of Change
- 300672.3** Mathematics 1A

Choose one of

- 200263.6** Biometry
- 300816.2** Cell Biology
- 300818.1** Introduction to Physiology
- 300673.3** Mathematics 1B
- 300829.2** Physics 2
- 300580.4** Programming Fundamentals

And one elective

Year 2

Autumn session

- 300937.2** Advanced Science Project A
- 300876.2** Organic Chemistry
- 300832.2** Analytical Chemistry

Choose at least one of

- 200028.4** Advanced Calculus
- 300936.2** Functional Proteins and Genes
- 300845.2** Genetics
- 300931.2** Integrated Science

- 200027.4 Linear Algebra
 300833.3 Microbiology 1
 300865.2 Plant Physiology

Spring session

- 300938.2 Advanced Science Project B
 300899.2 Inorganic Chemistry
 300849.3 Physical Chemistry

Choose at least one of

- 300838.2 Comparative Physiology
 200030.5 Differential Equations
 300839.2 Ecology
 300847.2 Immunology
 301033.2 Introduction to Data Science
 301032.2 Making Sense of Data
 300959.2 Mangamai'bangawarra: Indigenous Science
 300848.2 Metabolism
 300896.2 Microbiology 2
 300817.2 Molecular Biology

Year 3**Autumn session**

- 300910.2 Advanced Science Project C
 300907.2 Advanced Inorganic Chemistry

Choose one of

- 300926.2 Advanced Physical Chemistry
 300912.2 Molecular Pharmacokinetics

And one Level 3 elective

Spring session**Capstone Unit**

- 300924.2 Science Research Project

And

- 300925.2 Advanced Analytical Chemistry
 300906.2 Advanced Organic Chemistry

And one elective

Key Program - Nutrition and Food Science**KT3132.1**

Healthy eating is a vital part of good health. There is more to healthy eating than you realise. A Bachelor of Science (Nutrition and Food Science) will prepare you for the future by developing the skills and knowledge to solve future challenges in nutrition and health, food quality and security. The majors will allow further specialisation in your studies in Nutrition and Food Science and allow a wide range of careers in community nutrition and health promotion ensuring healthy diets and lifestyles for good health. The program has strong industry and community links, well-equipped facilities including food processing pilot plant and modern kitchen facilities. A major in Human Nutrition investigates healthy eating as a vital part of maintaining good health and health promotion. The major covers

specialised studies in applied and community nutrition, metabolism and human physiology, preparing students for careers in community nutrition, health promotion and education, or work in a range of food and nutrition related businesses, including new product development of healthy foods. A major in Food Science explores the science behind food, its preparation, manufacture, storage and preservation. The major covers specialised topics in food processing, quality assurance, product development, postharvest, packaging, microbiological and chemical analysis of foods preparing you for a wide range of careers in the food and beverage related industries, including food product development, quality assurance, food regulations, research and development, plus management of fresh food supply. A major in Food Technology Secondary Teaching brings together food science and nutrition with education studies to meet the graduate requirements for teaching food technology. The major includes specialised studies in food processing, food product development, nutrition, contemporary food issues, and growing crops for school garden projects. It will also address issues in the food marketplace relevant to the Australian food industry and prepare you to teach biology, chemistry or design and technology as additional first or second teaching areas, or design and technology depending on electives selected.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students completing the Bachelor of Science (Advanced Science) (Nutrition and Food Science) will complete the following course structure.

Note: At least 60 credit points must be at Level 3 or above. (Some students may need to take an elective as a Level 3 unit)

Year 1**Autumn session**

- 300802.3 Biodiversity
 300811.2 Scientific Literacy

Choose one of

- 300800.3 Essential Chemistry 1
 300808.3 Introductory Chemistry

Choose one of

- 300830.3 Analysis of Change
 200263.6 Biometry
 300672.3 Mathematics 1A
 300831.5 Quantitative Thinking

Spring session

- 300816.2 Cell Biology
 300803.2 Essential Chemistry 2
 300805.2 Food Science 1
 300937.2 Advanced Science Project A

Students in the Human Nutrition Major (Advanced) complete the following as their fourth unit

300818.1 Introduction to Physiology

Note: 300937 - Advanced Science Project A is situated in Semester 2 for administrative purposes only. This unit will be completed at an appropriate time in Semester 3 or 5 after consultation with the Director of Academic Programs.

Year 2**Autumn session**

- 300936.2** Functional Proteins and Genes
- 300833.3** Microbiology 1
- 300842.3** Food Science 2
- 300933.2** Nutrition and Health 1
- 300937.2** Advanced Science Project A

300937 - Advanced Project A: enrol in this unit as a fifth unit in Year 2 Autumn semester; attend Workshop in Autumn mid-semester break and complete literature review by end of July.

Spring session

- 300938.2** Advanced Science Project B
- 300879.2** Experimental Foods

Human Nutrition Major (Advanced)

- 300848.2** Metabolism
- 300934.2** Nutrition and Health 2

Food Science Major (Advanced)

- 300859.2** Food Safety
- 300869.2** Postharvest

Year 3**Autumn session**

- 300910.2** Advanced Science Project C
- 300922.3** Quality Assurance and Food Analysis

Human Nutrition Major (Advanced)

- 300851.1** Advanced Physiology

Students in the Human Nutrition Major may wish to complete an optional extra unit in this semester: choose one of

- 300928.2** Consumer Issues in Nutrition
- 300819.2** Topics in Physiology

Food Science Major (Advanced)

- 300871.2** Culinary Science

Choose one of

- 300866.2** Analytical Microbiology
- 300843.2** Forensic and Environmental Analysis

Spring session**Capstone Unit**

- 300924.2** Science Research Project
- 300915.2** Food Product Development

Human Nutrition Major (Advanced)

- 300908.2** Applied Nutrition
- 300917.2** Global Nutrition, Food and Community

Food Science Major (Advanced)

- 300904.2** Advanced Food Science and Technology
- 300883.2** Laboratory Quality Management

All students must satisfactorily complete the unit 300655 - Approved Industrial Experience (10 weeks), comprising a minimum of ten weeks Approved Industrial Experience.

- 300655.3** Approved Industrial Experience

Key Program - Zoology**KT3134.1**

A Bachelor of Science (Zoology) recognises the increased demand for scientific knowledge of how to conserve, protect and care for animals, including native wildlife, and companion and production animals. It will enable you to develop an in-depth scientific understanding of how animals function and interact with their environment; from their ecology and evolution; to physiology and biochemistry of tissues and major organs systems, as well as the structure and function of biomolecules and cells. The key learning and research areas embodied in this degree are ecology, evolution, physiology, growth, reproduction, genetics, and conservation biology. On-campus animal facilities include those for reptiles, small marsupials, small rodents, horses, sheep and cattle, as well as over 1,000ha of native, rural and aquatic habitats.

Location

Campus	Mode
Hawkesbury Campus	Multi Modal

Specialisation Structure

Students completing the Bachelor of Science (Advanced Science) (Zoology) will complete the following course structure.

Note: At least 60 credit points must be at Level 3 or above.

Year 1**Autumn session**

- 300802.3** Biodiversity
- 300811.2** Scientific Literacy
- 300813.2** Wildlife Studies

Choose one of

- 300800.3** Essential Chemistry 1
- 300808.3** Introductory Chemistry

Spring session

- 300816.2** Cell Biology
- 300803.2** Essential Chemistry 2

300801.2 Animal Science

Choose one of

- 300830.3** Analysis of Change
- 200263.6** Biometry
- 300672.3** Mathematics 1A
- 300831.4** Quantitative Thinking

Year 2**Autumn session**

- 300937.2** Advanced Science Project A
- 300834.2** Animal Health and Welfare
- 300936.2** Functional Proteins and Genes
- 300980.2** Principles of Evolution

Spring session

- 300938.2** Advanced Science Project B
- 300838.2** Comparative Physiology
- 300839.2** Ecology
- 300979.2** Principles of Zoology

Year 3**Autumn session**

- 300910.2** Advanced Science Project C
- 300878.2** Animal Behaviour
- 300978.2** Marine and Aquatic Ecology

And one elective

Spring session

- 300924.2** Science Research Project
- 300855.2** Conservation Biology
- 300909.2** Biological Adaptation to Climate Change

Choose one of

- 300918.4** Invertebrate Biology
- 300861.2** Vertebrate Biodiversity

Key Program - Environmental Science**KT3148.1****Location**

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students completing the Bachelor of Science (Advanced Science) (Environmental Science) will complete the following course structure.

Year 1**Autumn session**

- 300802.3** Biodiversity
- 300811.2** Scientific Literacy
- 300824.2** Management of Aquatic Environments

Choose one of

- 300800.3** Essential Chemistry 1
- 300808.3** Introductory Chemistry

Spring session

- 300816.2** Cell Biology
- 300803.2** Essential Chemistry 2
- 300810.2** Resource Sustainability

Choose one of

- 101646.3** Analysis of Spatial Data
- 300812.2** Understanding Landscape

Year 2**Autumn session**

- 300937.2** Advanced Science Project A
- 300837.2** Climate Change Science

Choose one of

- 300843.2** Forensic and Environmental Analysis
- 300833.3** Microbiology 1

Choose one of

- 300830.3** Analysis of Change
- 200263.6** Biometry
- 300672.3** Mathematics 1A
- 300831.5** Quantitative Thinking

Spring session

- 300938.2** Advanced Science Project B
- 300839.2** Ecology
- 300841.2** Environmental Regulation and Policy

Choose one of

- 300836.2** Botany
- 300861.2** Vertebrate Biodiversity

Year 3**Autumn session**

- 300910.2** Advanced Science Project C
- 300978.2** Marine and Aquatic Ecology
- 300857.1** Environmental Geochemistry

Please note unit 300857 replaced by 301212 Science of the Anthropocene from 2019.

- 301212.2** Science of the Anthropocene
- 300856.2** Ecosystem Carbon Accounting

Spring session

- 300924.2** Science Research Project
- 300855.2** Conservation Biology
- 300909.2** Biological Adaptation to Climate Change

Choose one of

- 300918.4** Invertebrate Biology
- 300861.2** Vertebrate Biodiversity

Key Program - Forensic Science

KT3149.1

This is a three year program that produces scientists who have a good background in the biological and chemical sciences, coupled with specialised expertise in forensic science, including methods of forensic analysis, crime scene investigation, forensic photography, forensic investigation, crime and criminal justice and complex case. Students may opt to further specialise in forensic biology, chemistry or microbiology by selecting additional electives or studies in a related or unrelated discipline. Career opportunities include forensic scientists, crime scene investigators, private investigators and consultants, police officers, drug analysts, researchers and academics, and specialised forensic science practitioners. The main employers of forensic scientists are State and Federal police services, State and Commonwealth Government Health Departments and analytical chemical laboratories. Graduates will be versatile with a wide skills base with (depending on their choice of electives) potential for employment in analytical chemistry and microbiology, quality control and assurance, biochemistry and molecular biology, scientific research, education and the chemical industry.

Location

Campus	Mode
Hawkesbury Campus	Multi Modal

Specialisation Structure

Students completing the Bachelor of Science (Advanced Science) (Forensic Science) will complete the following course structure.

Year 1

Autumn session

300802.3	Biodiversity
300811.2	Scientific Literacy
300806.2	Forensic Science

Choose one of

300800.3	Essential Chemistry 1
300808.3	Introductory Chemistry

Spring session

300816.2	Cell Biology
300803.2	Essential Chemistry 2
300874.3	Digital Forensic Photography
200263.6	Biometry

Year 2

Autumn session

300937.2	Advanced Science Project A
300843.2	Forensic and Environmental Analysis
300845.2	Genetics

300825.2 Introduction to Anatomy

From 2017: 300825 Introduction to Anatomy replaced with the following unit:

301126.2 Concepts in Human Anatomy

Spring session

300938.2	Advanced Science Project B
300873.3	Crime Scene Investigation
300817.2	Molecular Biology
401171.2	Imaging Science

Year 3

Autumn session

300910.2	Advanced Science Project C
300981.2	Environmental Forensic Investigations
300868.2	Forensic Chemistry
301120.3	Forensic Anthropology

Spring session

300924.2	Science Research Project
300911.2	Complex Forensic Studies
401170.3	Forensic Biology
300883.2	Laboratory Quality Management

Major - Crime Scene Investigation

M4012.1	Crime Scene Investigation
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Key Program - Mathematical Sciences

KT3150.1

A Bachelor of Science (Mathematical Science) provides you with a strong background in key analytical techniques that have contemporary applications such as the treatment and interpretation of data and the modelling of real-world problems such as global warming. You will develop skills that allow you to model and solve real world problems using mathematical techniques and have the opportunity to specialise in mathematics, statistics or a combination of both. This will provide you with a wide range of career options in commercial and government institutions, which require highly-skilled problem-solvers. There are also a range of majors (e.g. biology, chemistry) and sub-majors offered in Science that can add diversity and/or focus to your degree. There are also a range of sub-majors from other disciplines such as the arts, business, humanities and social sciences to choose from, although these may require cross campus study and are subject to availability and timetabling.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students completing the Bachelor of Science (Advanced Science) (Mathematical Sciences) will complete the following course structure.

Year 1

Autumn session

300672.3	Mathematics 1A
300811.2	Scientific Literacy
200025.3	Discrete Mathematics

Choose one of

300802.3	Biodiversity
300800.3	Essential Chemistry 1
300808.3	Introductory Chemistry
300828.2	Physics 1

Spring session

301031.3	Computer Algebra
300673.3	Mathematics 1B
200263.6	Biometry

And one elective

Year 2

Autumn session

300937.2	Advanced Science Project A
200027.4	Linear Algebra
200028.4	Advanced Calculus
301033.2	Introduction to Data Science

Spring session

300938.2	Advanced Science Project B
200030.5	Differential Equations
301032.2	Making Sense of Data

Choose one of

300816.2	Cell Biology
300803.2	Essential Chemistry 2
300829.2	Physics 2

Year 3

Autumn session

300910.2	Advanced Science Project C
200193.3	Abstract Algebra
301034.2	Predictive Modelling
200023.4	Analysis

Spring session

200045.4	Quantitative Project
301035.2	Environmental Informatics
200022.4	Mathematical Modelling

And one elective

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

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
102914.1	Comedy and Tragedy: Dramas of Death and Rebirth
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.

Equivalent Specialisation Unit

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

100900 - Comedy and Tragedy

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
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
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
102908.1	Thought and Action in Greece and Rome
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

Equivalent Specialisation Unit

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

- 101881 - Philosophy and the Good Life

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

Choose one of

102711.1 Prisons, Punishment and Criminal Justice
102916.1 First Peoples and Criminal Justice

Note: from 2022 this unit replaces 102712 First Peoples and Criminal Justice

Year 3

Autumn session

102037.2 Perspectives in Criminology
101561.3 Gender, Crime and Violence

Spring session

Choose one of

102710.1 Crime, Media, Culture
102916.1 First Peoples and Criminal Justice

Note: from 2022 this unit replaces 102712 First Peoples and Criminal Justice

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
102916.1 First Peoples and Criminal Justice

Note: from 2022 this unit replaces 102712 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
102916.1 First Peoples and Criminal Justice

Note: from 2022 this unit replaces 102712 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**102733.2** 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**

Note: the Indonesian major will no longer be available from 2021. 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
100013.5 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
101682.8 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.

Note: Not all units will be offered each year. Units will be offered on a rotational basis.

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.

Level 2 Unit Pool

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
102914.1	Comedy and Tragedy: Dramas of Death and Rebirth
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.

Equivalent Specialisation Unit

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

100900 - Comedy and Tragedy

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
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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
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
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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
102913.1	Introduction to Culture and Society
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.

102913.1	Introduction to Culture and Society
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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 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
102862.1	Migration and Social Change
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
101731.3	Understanding Power
101898.1	Violence in Everyday Life
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.

100897 - Everyday Life

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
Parramatta Campus - Victoria Road	Internal

Campus	Mode		
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
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

102861.1	Medieval Europe from the Fall of the Roman Empire to the Reformation
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 2019 or earlier.

102002 - Religion and the Origins of Modern Science

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.

201099.1	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

Replaced Units

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

200922 - Consumers, Firms and Markets, replaced by 201099 Consumers, Firms and Markets

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 - Aquatic Biology

M3046.1

Aquatic and marine environments play vital roles in providing food, water, recreation and other ecosystem services to human society, as well as providing habitat for important species that make up global biodiversity. This major will equip students with the background knowledge and training to work in aquatic and marine environments, to learn skills in inquiry and problem solving, so that they can contribute beneficially to management and/or conservation of waterways and oceans and the biodiversity within them.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete the following eight units

Level 1

300802.3	Biodiversity
300824.2	Management of Aquatic Environments

Level 2

300838.2	Comparative Physiology
300839.2	Ecology
300877.2	Toxicology

Level 3

300929.1	Aquatic Ecology
300918.4	Invertebrate Biology
300870.2	Water in the Landscape

Major - Chemistry

M3047.1

This major will give students a solid grounding in chemistry as a scientific discipline; units can be selected to specialise in inorganic, organic, analytical or physical chemistry. Completion of the major will also qualify students as secondary school chemistry teachers.

Location

Campus	Mode
Campbelltown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must complete eight units as follows

Level 1

300800.3	Essential Chemistry 1
300803.2	Essential Chemistry 2

Level 2

Choose three of

300899.2	Inorganic Chemistry
300876.2	Organic Chemistry
300849.3	Physical Chemistry

*Students may only choose one of the following two units

300832.2	Analytical Chemistry
300843.2	Forensic and Environmental Analysis

Level 3

Choose one of the following capstone units

300883.2	Laboratory Quality Management
300924.2	Science Research Project

And choose two of

300925.2	Advanced Analytical Chemistry
300907.2	Advanced Inorganic Chemistry
300891.2	Advanced Medicinal Chemistry
300906.2	Advanced Organic Chemistry
300926.2	Advanced Physical Chemistry
300920.2	Pharmacological Chemistry

Major - Conservation Biology**M3049.1**

Conservation biology has emerged as a field of study from a synthesis of the ecological, demographic, genetic and societal risks faced by small natural populations. This major equips students with skills in fundamental biology, in the ecology of populations and communities, in population genetics and in the legal conservation framework to enable them to work in this area.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete eight units as follows. Five units must be from the Level 1 and 2 pools, with no more than

three units at Level 1. Students must also complete three units at Level 3.

Level 1

300802.3	Biodiversity
300816.2	Cell Biology
300824.2	Management of Aquatic Environments
300813.2	Wildlife Studies

Level 2

300836.2	Botany
300839.2	Ecology
300845.2	Genetics

Level 3

Students must complete

300855.2	Conservation Biology
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And choose two of

300929.1	Aquatic Ecology
300918.4	Invertebrate Biology
300861.2	Vertebrate Biodiversity

Major - General Biology**M3052.1**

The major in General Biology gives students a broad training in biology, with the opportunity to select a program that ranges across the scale from macro- to micro- to molecular level processes. Completion of the major meets the requirements for secondary school biology teaching (post-graduate study is required to qualify as a teacher).

Location

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

Specialisation Structure

Students must complete a maximum of three units from Level 1 and at least three units from Level 3.

Students must complete eight units as follows

Level 1

300802.3	Biodiversity
300816.2	Cell Biology

Choose six of the following units, including at least three at Level 3.

Level 1

300800.3	Essential Chemistry 1
300803.2	Essential Chemistry 2

Level 2

300836.2	Botany
300838.2	Comparative Physiology
300839.2	Ecology
300936.2	Functional Proteins and Genes
300845.2	Genetics
300847.2	Immunology
300848.2	Metabolism
300833.3	Microbiology 1
300896.2	Microbiology 2
300817.2	Molecular Biology
300865.2	Plant Physiology

Level 3

300850.2	Advanced Cell Biology
300905.2	Advanced Immunology
300851.1	Advanced Physiology
300866.2	Analytical Microbiology
300929.1	Aquatic Ecology
300855.2	Conservation Biology
300820.3	Genes, Genomics and Human Health
300918.4	Invertebrate Biology
300819.2	Topics in Physiology
300883.2	Laboratory Quality Management
300826.3	Medical Microbiology
300927.3	Molecular Medicine
300919.2	Occupational Health and Safety
300924.2	Science Research Project
300861.2	Vertebrate Biodiversity

Major - Mathematics**M3054.1**

This major covers topics in the traditional areas of calculus and algebra. Single and multivariable calculus are covered, as well as topics in linear algebra, analysis and mathematical modelling. This major is available to all undergraduate students and may meet the NSW Institute of Teachers accreditation requirements for teaching Mathematics as a first subject in NSW state high schools.

Location

Campus	Mode
Campbelltown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students must complete eight units as follows

Level 1

200025.3	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 - Food Science & Technology**M3057.1**

A major in Food Science and Technology explores the science behind food, its preparation and manufacture. The program covers specialised topics in food processing, quality assurance, new product development, postharvest, packaging, microbiological and chemical analysis of foods. The program aims to develop in depth scientific understanding of processes involved in food manufacture and requirements to produce safe, nutritious and palatable food. The major prepares students for a wide range of careers in the food and beverage related industries, including food product development, quality assurance, food regulations, research and development, plus management of fresh food supply. Students seeking to be secondary Food Technology teachers are advised to also select a Sub-major in Education Studies in preparation for Master of Teaching in their fourth year of study. This program will satisfy the requirements of the NSW Institute of Teachers for first teaching areas of 'Food Technology' and 'Biology', with further teaching areas possible in 'chemistry', 'physics', or 'design and technology' depending on the electives selected.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Standard Food Science and Technology Major
Students must complete eight units as follows

300904.2	Advanced Food Science and Technology
300871.2	Culinary Science
300915.2	Food Product Development
300859.2	Food Safety
300883.2	Laboratory Quality Management
300869.2	Postharvest
300922.3	Quality Assurance and Food Analysis

And choose one of

300866.2	Analytical Microbiology
300843.2	Forensic and Environmental Analysis

Food Science and Technology Major for Students undertaking the Education Studies Sub Major

Students must complete eight units as follows, plus be enrolled in the Education Studies sub major

300904.2	Advanced Food Science and Technology
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300871.2	Culinary Science
300915.2	Food Product Development
300859.2	Food Safety
300805.2	Food Science 1
300842.3	Food Science 2
300869.2	Postharvest
300922.3	Quality Assurance and Food Analysis

Major - Human Nutrition

M3059.1

A major in Human Nutrition investigates healthy eating as a vital part of good health. This major offers a human nutrition specialisation for students enrolled in the Nutrition and Food Science degree. The major covers nutrition and health, with specialised studies in community nutrition, public health nutrition, human physiology, health promotion and food studies. The program aims to develop understanding of human nutrition as it applies to the various stages of life, as well as examining the development of Australian dietary practices and diet related disorders. Students will explore the role of community food systems; developing strategies for social research methods and applications in public health nutrition and health promotion. The major prepares students for careers in community nutrition, health promotion and education, or work in a range of food and nutrition related businesses, including new product development of healthy foods. Those students seeking postgraduate studies in dietetics with the objective of becoming an accredited practising dietician should select a double major of 'Nutrition and Physiology' with the 'Human Nutrition' major and complete further studies in metabolism and advanced physiology.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete eight units as follows

Year 2

Autumn session

300933.2	Nutrition and Health 1
300936.2	Functional Proteins and Genes

Spring session

300934.2	Nutrition and Health 2
300818.1	Introduction to Physiology

Year 3

Autumn session

300928.2	Consumer Issues in Nutrition
300871.2	Culinary Science

Spring session

300908.2	Applied Nutrition
300917.2	Global Nutrition, Food and Community

Major - Medicinal Chemistry

M3060.1

Location

Campus	Mode
Campbelltown Campus	Internal

Specialisation Structure

Note - At least 60 credit points must be at Level 3 or above (two electives/Schedule C units must be at least a Level 3 unit)

Year 2

Autumn session

300936.2	Functional Proteins and Genes
300876.2	Organic Chemistry

One schedule C unit
And one elective

Spring session

300848.2	Metabolism
300889.2	Pathological Basis of Disease

One schedule C unit
And one elective

Year 3

Autumn session

300891.2	Advanced Medicinal Chemistry
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Two schedule C units
And one elective

Spring session

300893.2	Topics in Medical Science
300920.2	Pharmacological Chemistry
300906.2	Advanced Organic Chemistry

And one elective

Schedule C Units

Choose four of

300925.2	Advanced Analytical Chemistry
300907.2	Advanced Inorganic Chemistry
300832.2	Analytical Chemistry
300899.2	Inorganic Chemistry
300912.2	Molecular Pharmacokinetics
300849.3	Physical Chemistry

Mid-year Intake

From Autumn 2017, there is a change in unit sequence for the mid year intake.

Note - At least 60 credit points must be at Level 3 or above (two electives/Schedule C units must be at least a Level 3 unit)

Year 1

Spring session

300816.2	Cell Biology
300803.2	Essential Chemistry 2
300818.1	Introduction to Physiology
300811.2	Scientific Literacy

Autumn session

300802.3	Biodiversity
300802.3	Biodiversity
301126.2	Concepts in Human Anatomy

Choose one of

300800.3	Essential Chemistry 1
300808.3	Introductory Chemistry

Please note unit 300800 is no longer available from 2017. Students should take unit 300808 Introductory Chemistry.

Choose one of

300830.3	Analysis of Change
300831.5	Quantitative Thinking
300672.3	Mathematics 1A
200263.6	Biometry

Year 2

Spring session

300889.2	Pathological Basis of Disease
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Two schedule C units

And one elective

Autumn session

300936.2	Functional Proteins and Genes
300876.2	Organic Chemistry

One schedule C unit

And one elective

Year 3

Spring session

300848.2	Metabolism
300920.2	Pharmacological Chemistry
300906.2	Advanced Organic Chemistry

And one elective

Autumn session

300891.2	Advanced Medicinal Chemistry
300893.2	Topics in Medical Science

One schedule C unit

And one elective

Schedule C Units

300925.2	Advanced Analytical Chemistry
300907.2	Advanced Inorganic Chemistry
300832.2	Analytical Chemistry
300899.2	Inorganic Chemistry
300912.2	Molecular Pharmacokinetics
300849.3	Physical Chemistry

Sub-major Elective Spaces

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

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

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

Major - Anatomy and Physiology

M3061.1

Location

Campus	Mode
Campbelltown Campus	Internal

Specialisation Structure

Note - At least 60 credit points must be at Level 3 or above (two electives/Schedule B units must be at least a Level 3 unit)

Year 2

Autumn session

300936.2	Functional Proteins and Genes
300894.3	Anatomy of the Thorax and Abdomen

One schedule B unit

And one elective

Spring session

300848.2	Metabolism
300889.2	Pathological Basis of Disease
300884.3	Pharmacology

And one elective

Year 3

Autumn session

300819.2	Topics in Physiology
300851.1	Advanced Physiology

One schedule B unit

And one elective

Spring session

300754.5	Neuroanatomy
300893.2	Topics in Medical Science

One schedule B unit

And one elective

Schedule B Units

Choose three of

300905.2	Advanced Immunology
300897.3	Anatomy of the Head and Neck
300898.4	Appendicular Skeleton
300838.2	Comparative Physiology
300845.2	Genetics
300820.3	Genes, Genomics and Human Health
300817.2	Molecular Biology
300927.3	Molecular Medicine

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

300816.2	Cell Biology
300803.2	Essential Chemistry 2
300818.1	Introduction to Physiology
300811.2	Scientific Literacy

Autumn session

300936.2	Functional Proteins and Genes
301126.2	Concepts in Human Anatomy

Choose one of

300800.3	Essential Chemistry 1
300808.3	Introductory Chemistry

Please note unit 300800 is no longer available from 2017. Students should take unit 300808 Introductory Chemistry.

Choose one of

300830.3	Analysis of Change
200263.6	Biometry
300672.3	Mathematics 1A
300831.5	Quantitative Thinking

Year 2**Spring session**

300848.2	Metabolism
300889.2	Pathological Basis of Disease
300884.3	Pharmacology

One schedule B unit

Autumn session

300802.3	Biodiversity
300894.3	Anatomy of the Thorax and Abdomen

One schedule B unit

And one elective

Year 3**Spring session**

300893.2	Topics in Medical Science
300754.5	Neuroanatomy

One schedule B unit

And one elective

Autumn session

300819.2	Topics in Physiology
300851.1	Advanced Physiology

One schedule B unit

And one elective

Schedule B Units

Choose three of

300905.2	Advanced Immunology
300897.3	Anatomy of the Head and Neck
300898.4	Appendicular Skeleton
300838.2	Comparative Physiology
300820.3	Genes, Genomics and Human Health
300845.2	Genetics
300817.2	Molecular Biology
300927.3	Molecular Medicine

Sub-major Elective Spaces

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

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

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

Major - Biomedical Science**M3062.1****Location**

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

Specialisation Structure

Note - At least 60 credit points must be at Level 3 or above (five electives/ Schedule A units must be at least a Level 3 unit)

Year 2**Autumn session**

300936.2	Functional Proteins and Genes
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Two schedule A units

And one elective

Spring session

300848.2	Metabolism
300889.2	Pathological Basis of Disease

One schedule A unit

And one elective

Year 3**Autumn session**

Three schedule A units
And one elective

Spring session

300893.2 Topics in Medical Science

Two schedule A units
And one elective

Schedule A Units

Choose eight of

300850.2	Advanced Cell Biology
300905.2	Advanced Immunology
300866.2	Analytical Microbiology
300820.3	Genes, Genomics and Human Health
300845.2	Genetics
300847.2	Immunology
300826.3	Medical Microbiology
300833.3	Microbiology 1
300896.2	Microbiology 2
300817.2	Molecular Biology
300927.3	Molecular Medicine

Mid Year Intake

Note - At least 60 credit points must be at Level 3 or above (five electives/ Schedule A units must be at least a Level 3 unit)

Year 1**Spring session**

300816.2	Cell Biology
300803.2	Essential Chemistry 2
300818.1	Introduction to Physiology
300811.2	Scientific Literacy

Autumn session

300802.3	Biodiversity
301126.2	Concepts in Human Anatomy

Choose one of

300800.3	Essential Chemistry 1
300808.3	Introductory Chemistry

Please note unit 300800 is no longer available from 2017. Students should take unit 300808 Introductory Chemistry.

Choose one of

300830.3	Analysis of Change
200263.6	Biometry
300672.3	Mathematics 1A
300831.5	Quantitative Thinking

Year 2**Spring session**

300889.2 Pathological Basis of Disease

Three schedule A units

Autumn session

300936.2 Functional Proteins and Genes

Two schedule A units
And one elective

Year 3**Spring session**

300848.2 Metabolism
300893.2 Topics in Medical Science

Two schedule A units

Autumn session

Four Schedule A Units

Schedule A Units

Choose eight of

300850.2	Advanced Cell Biology
300905.2	Advanced Immunology
300866.2	Analytical Microbiology
300820.3	Genes, Genomics and Human Health
300845.2	Genetics
300847.2	Immunology
300826.3	Medical Microbiology
300833.3	Microbiology 1
300896.2	Microbiology 2
300817.2	Molecular Biology
300927.3	Molecular Medicine

Mid-year Intake - Alternate pattern

Note - At least 60 credit points must be at Level 3 or above (five electives/ Schedule A units must be at least a Level 3 unit)

Year 1**Spring session**

300816.2	Cell Biology
300803.2	Essential Chemistry 2
300818.1	Introduction to Physiology
300811.2	Scientific Literacy

Autumn session

300936.2 Functional Proteins and Genes
301126.2 Concepts in Human Anatomy

Choose one of

300800.3	Essential Chemistry 1
300808.3	Introductory Chemistry

Choose one of

300830.3	Analysis of Change
200263.6	Biometry
300672.3	Mathematics 1A
300831.5	Quantitative Thinking

Year 2**Spring session**

300848.2 Metabolism
300889.2 Pathological Basis of Disease

One schedule A unit
 And one elective

Autumn session

300802.3 Biodiversity

Two schedule A units
 And one elective

Year 3**Spring session**

300893.2 Topics in Medical Science

Three schedule A units

Autumn session

Two schedule A units
 And two electives

Schedule A Units

Choose eight of

300850.2 Advanced Cell Biology
300905.2 Advanced Immunology
300866.2 Analytical Microbiology
300820.3 Genes, Genomics and Human Health
300845.2 Genetics
300847.2 Immunology
300826.3 Medical Microbiology
300833.3 Microbiology 1
300896.2 Microbiology 2
300817.2 Molecular Biology
300927.3 Molecular Medicine

Sub-major Elective Spaces

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

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

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

Major - Climate Change**M3078.1**

A factual understanding of climate, the components that go to make it up, and how climate has varied in the past, is essential for any person working in the climate change area. This unit will introduce students to the concept of climate, our understanding of how it works, and how it has changed through time. Topics in basic atmospheric science will give students a critical understanding of current environmental concerns and debates about the greenhouse

effect and climate change, and the science behind greenhouse gas accounting. Students will be introduced to current atmosphere-related research at Western Sydney University and elsewhere.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete eight units as follows

Level 1

300802.3 Biodiversity

Choose one of

300800.3 Essential Chemistry 1
300808.3 Introductory Chemistry

Level 2

300837.2 Climate Change Science
300839.2 Ecology

Choose one of

300838.2 Comparative Physiology
300865.2 Plant Physiology
300980.2 Principles of Evolution

Level 3

300909.2 Biological Adaptation to Climate Change
300856.2 Ecosystem Carbon Accounting

Choose one of

300857.1 Environmental Geochemistry

Please note unit 300857 replaced by 301212 Science of the Anthropocene from 2019.

301212.2 Science of the Anthropocene
300855.2 Conservation Biology

Major - Conservation Biology**M3079.1**

Conservation biology has emerged as a field of study from a synthesis of the ecological, demographic, genetic and societal risks faced by small natural populations. This major equips students with skills in fundamental biology, in the ecology of populations and communities, in population genetics and in the legal conservation framework to enable them to work in this area.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete eight units; up to three of these units can come from level 1, and three must come from level 3.

Level 1

300802.3	Biodiversity
300816.2	Cell Biology
300813.2	Wildlife Studies
300824.2	Management of Aquatic Environments

Level 2

300839.2	Ecology
300845.2	Genetics
300836.2	Botany
300980.2	Principles of Evolution

Level 3

300855.2	Conservation Biology
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And choose two of

300909.2	Biological Adaptation to Climate Change
300978.2	Marine and Aquatic Ecology
300861.2	Vertebrate Biodiversity

300929 - Aquatic Ecology replaced by 300978 Marine and Aquatic Ecology from Autumn 2016.

Major - General Biology

M3080.1

The major in General Biology gives students a broad training in biology, with the opportunity to select a program that ranges across the scale from macro- to micro- to molecular level processes. Completion of the major meets the requirements for secondary school biology teaching (post-graduate study is required to qualify as a teacher).

Location

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

Specialisation Structure

Students must complete eight units as follows

Level 1

300802.3	Biodiversity
300816.2	Cell Biology

Choose six of the following units, including at least three units at Level 3.

Level 1

300800.3	Essential Chemistry 1
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300803.2	Essential Chemistry 2
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Level 2

300836.2	Botany
300838.2	Comparative Physiology
300839.2	Ecology
300936.2	Functional Proteins and Genes
300845.2	Genetics
300847.2	Immunology
300848.2	Metabolism
300833.3	Microbiology 1
300896.2	Microbiology 2
300817.2	Molecular Biology
300865.2	Plant Physiology
300980.2	Principles of Evolution
300979.2	Principles of Zoology

Level 3

300850.2	Advanced Cell Biology
300905.2	Advanced Immunology
300851.1	Advanced Physiology
300866.2	Analytical Microbiology
300929.1	Aquatic Ecology
300855.2	Conservation Biology
300819.2	Topics in Physiology
300820.3	Genes, Genomics and Human Health
300918.4	Invertebrate Biology
300883.2	Laboratory Quality Management
300826.3	Medical Microbiology
300927.3	Molecular Medicine
300919.2	Occupational Health and Safety
300924.2	Science Research Project
300861.2	Vertebrate Biodiversity

Major - Marine Biology

M3081.1

Marine environments play vital roles in providing food, water, recreation and other ecosystem services to human society, as well as providing habitat for important species that make up global biodiversity. This major will equip students with the background knowledge and training to work in marine environments, to learn skills in inquiry and problem solving, so that they can contribute beneficially to management and/or conservation of waterways and oceans and the biodiversity within them.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete the following eight units

Level 1

300802.3	Biodiversity
300824.2	Management of Aquatic Environments

Level 2

Choose three of

- 300838.2** Comparative Physiology
- 300839.2** Ecology
- 300979.2** Principles of Zoology
- 300877.2** Toxicology

Level 3

- 300978.2** Marine and Aquatic Ecology
- 300909.2** Biological Adaptation to Climate Change

300929 - Aquatic Ecology replaced by 300978 Marine and Aquatic Ecology from Autumn 2016.

Choose one of

- 300924.2** Science Research Project
- 300861.2** Vertebrate Biodiversity
- 300870.2** Water in the Landscape

Major - Zoology**M3082.1**

This major trains students in how to best care for and protect our animals, by covering scientific knowledge of native wildlife, companion animals, and production animals. This major will allow students to develop scientific understanding of how animals function and interact with their environment; from their ecology and evolution; to physiology and biochemistry of tissues and major organ systems, as well as structure and function of biomolecules and cells. On-campus animal facilities include those for reptiles, small marsupials, small rodents, horses, sheep and cattle, as well as over 1000ha of native, rural and aquatic habitats.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete eight units as follows

Level 1

Choose two of

- 300802.3** Biodiversity
- 300816.2** Cell Biology
- 300813.2** Wildlife Studies

Level 2

- 300979.2** Principles of Zoology

Choose two of

- 300835.2** Animal Reproduction
- 300838.2** Comparative Physiology
- 300839.2** Ecology
- 300845.2** Genetics

- 300980.2** Principles of Evolution

Level 3

- 300909.2** Biological Adaptation to Climate Change

Choose two of

- 300929.1** Aquatic Ecology

300929 - Aquatic Ecology has been replaced by 300978 Marine and Aquatic Ecology from Autumn 2014

- 300878.2** Animal Behaviour
- 300918.4** Invertebrate Biology
- 300978.2** Marine and Aquatic Ecology
- 300861.2** Vertebrate Biodiversity

Major - Environmental Consulting**M3084.1**

This major in Environmental Consulting prepares graduates for jobs in environmental consulting companies, government environmental offices, land and water management agencies or non-government organisations. The natural resources boom and growing human population in Australia have created a demand for environmental specialists to conduct and prepare environmental assessments and impact statements. This major will provide you with broad skills in fauna, flora and habitat assessments, as well as, policy and regulation associated with planning and development in Australia.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete of the following eight units

Level 1

- 300813.2** Wildlife Studies
- 200571.4** Management Dynamics

200912 - Enterprise Leadership replaced 200571 Management Dynamics from 2016.

- 200912.1** Enterprise Leadership

Choose one of

- 200263.6** Biometry
- 300831.5** Quantitative Thinking

Level 2

- 300841.2** Environmental Regulation and Policy

Level 3

- 300858.2** Environmental Risk Management
- 300918.4** Invertebrate Biology
- 300861.2** Vertebrate Biodiversity

Choose one of

- 300914.2** Field Project 2
300924.2 Science Research Project

Major - Nutrition and Physiology

M3089.1

This major addresses the physiological and nutritional foundations for understanding the nature of food and the physiological and epidemiological relationships between food, nutrients and components of food and common diet-related diseases prevalent in Australia. The study of nutrition and human physiology incorporates knowledge of the human biology and biochemistry to understand how the body utilizes nutrients and related substances for optimal health throughout the lifecycle. This major is recommended for students seeking an in-depth understanding of diet-related health issues and are intending to work in allied or community health, education, or seeking postgraduate studies in nutrition, dietetics or public health.

Location

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

Specialisation Structure

Students must complete the following units

Level 2

- 300936.2** Functional Proteins and Genes
300848.2 Metabolism
300933.2 Nutrition and Health 1
300934.2 Nutrition and Health 2

Level 3

- 300851.1** Advanced Physiology
300819.2 Topics in Physiology

Choose two of the following

- 300908.2** Applied Nutrition
300928.2 Consumer Issues in Nutrition
300917.2 Global Nutrition, Food and Community

Major - Biochemistry and Molecular Biology

M3090.1

This major will equip students with knowledge and skills in fundamental biology and chemistry, biochemistry and

molecular biology to allow students to enter industrial or research-based employment in this area (biotech companies, pathology, quality assurance, university and hospital labs and scientific sales, government policy analysis). As this area has expanding knowledge and technologies, outcomes also include the ability to read, critique and evaluate emerging research with the view to becoming a life-long learner in the field. The outcomes of this major would support honours or masters level research in this area.

Location

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

Specialisation Structure

Students must complete eight units as follows
 Three units must be at Level 3

Level 1

- 300816.2** Cell Biology
300803.2 Essential Chemistry 2

Level 2

- 300936.2** Functional Proteins and Genes
300848.2 Metabolism

Choose one of the following

- 300845.2** Genetics
300847.2 Immunology
300817.2 Molecular Biology

Level 3

Choose three of the following

- 300850.2** Advanced Cell Biology
300905.2 Advanced Immunology
300820.3 Genes, Genomics and Human Health
300927.3 Molecular Medicine

Major - Microbiology

M3099.1

Microorganisms impact on all aspects of our lives. A major in microbiology will equip students with the skills and knowledge of microbiology and molecular microbiology relevant to employment in research laboratories and industries including biotechnology companies, medical and environmental laboratories, food, wine and pharmaceutical companies, quality assurance and scientific sales. The major, which includes the study of bacteria, fungi, protists and viruses and their roles in medicine, industry and the environment, will also provide a foundation for research at Honours and postgraduate levels.

Location

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

Specialisation Structure

Students must complete eight units as follows

Level 2

300936.2	Functional Proteins and Genes
300833.3	Microbiology 1
300896.2	Microbiology 2
300817.2	Molecular Biology

Level 3

Choose four of

300905.2	Advanced Immunology
300866.2	Analytical Microbiology
300883.2	Laboratory Quality Management
300826.3	Medical Microbiology
300924.2	Science Research Project

Major - Forensic Chemistry**M3100.1**

This major gives a systematic introduction to the principles and practice of forensic chemistry. Forensic chemistry is the science underlying many forensic investigations from the analysis of toxic material to the detection and identification of illicit drug use. Forensic chemistry also forms the basis of a large portion of the techniques used at the crime scene. This major is designed to complement a science-based degree, but it may also be taken by students who are studying a different discipline or profession as all pre-requisites are included.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete eight units as follows

Level 1

300800.3	Essential Chemistry 1
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Or

300808.3	Introductory Chemistry
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Note: Only one chemistry unit may be chosen. Choose 300800 - Essential Chemistry OR 300803 - Introductory Chemistry.

300803.2	Essential Chemistry 2
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300806.2	Forensic Science
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Level 2

300935.3	Evidence and Crime Scene Management
300843.2	Forensic and Environmental Analysis

Level 3

300981.2	Environmental Forensic Investigations
300868.2	Forensic Chemistry
300883.2	Laboratory Quality Management

Major - Medicinal Chemistry**M3103.1****Location**

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students completing the Bachelor of Medical Science (Advanced) with a major in Medicinal Chemistry will complete the following course structure.

Note: At least 60 credit points must be at Level 3 or above (one Schedule C unit must be at least a Level 3 unit)

Year 1**Autumn session**

300802.3	Biodiversity
300811.2	Scientific Literacy
301126.2	Concepts in Human Anatomy

Choose one of

300800.3	Essential Chemistry 1
300808.3	Introductory Chemistry

Please note unit 300800 is no longer available from 2017. Students should take unit 300808 Introductory Chemistry.

Spring session

300816.2	Cell Biology
300803.2	Essential Chemistry 2
300818.1	Introduction to Physiology

Choose one of

300830.3	Analysis of Change
200263.6	Biometry
300672.3	Mathematics 1A
300831.5	Quantitative Thinking

Year 2**Autumn session**

300936.2	Functional Proteins and Genes
300937.2	Advanced Science Project A
300876.2	Organic Chemistry

One schedule C unit

Spring session

300848.2	Metabolism
300889.2	Pathological Basis of Disease
300938.2	Advanced Science Project B

One schedule C unit

Year 3

Autumn session

300891.2	Advanced Medicinal Chemistry
300910.2	Advanced Science Project C
300893.2	Topics in Medical Science

One schedule C unit

Spring session

300920.2	Pharmacological Chemistry
300906.2	Advanced Organic Chemistry
300892.3	Medical Science Project

From 2022 300892 Medical Science Project will be replaced by 300924 Science Research Project

300924.2	Science Research Project
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One schedule C unit

Schedule C Units

Choose four of

300925.2	Advanced Analytical Chemistry
300907.2	Advanced Inorganic Chemistry
300832.2	Analytical Chemistry
300899.2	Inorganic Chemistry
300912.2	Molecular Pharmacokinetics
300849.3	Physical Chemistry

Major - Anatomy and Physiology

M3104.1

Location

Campus	Mode
Hawkesbury Campus	Multi Modal

Specialisation Structure

Students completing the Bachelor of Medical Science (Advanced) with a major in Anatomy and Physiology will complete the following course structure.

Note: At least 60 credit points must be at Level 3 or above (one Schedule B unit must be at least a Level 3 unit)

Year 1

Autumn session

300802.3	Biodiversity
300811.2	Scientific Literacy
301126.2	Concepts in Human Anatomy

Choose one of

300800.3	Essential Chemistry 1
300808.3	Introductory Chemistry

Please note unit 300800 is no longer available from 2017. Students should take unit 300808 Introductory Chemistry.

Spring session

300816.2	Cell Biology
300803.2	Essential Chemistry 2
300818.1	Introduction to Physiology

Choose one of

300830.3	Analysis of Change
200263.6	Biometry
300672.3	Mathematics 1A
300831.5	Quantitative Thinking

Year 2

Autumn session

300936.2	Functional Proteins and Genes
300894.3	Anatomy of the Thorax and Abdomen
300937.2	Advanced Science Project A

And one schedule B unit

Spring session

300848.2	Metabolism
300889.2	Pathological Basis of Disease
300938.2	Advanced Science Project B
300884.3	Pharmacology

Year 3

Autumn session

300819.2	Topics in Physiology
300851.1	Advanced Physiology
300910.2	Advanced Science Project C
300893.2	Topics in Medical Science

Spring session

300754.5	Neuroanatomy
300892.3	Medical Science Project

From 2022 300892 Medical Science Project will be replaced by 300924 Science Research Project

300924.2	Science Research Project
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Two schedule B units

Schedule B Units

Choose three of

300905.2	Advanced Immunology
300897.3	Anatomy of the Head and Neck
300898.4	Appendicular Skeleton
300838.2	Comparative Physiology
300820.3	Genes, Genomics and Human Health
300845.2	Genetics
300817.2	Molecular Biology
300927.3	Molecular Medicine

Major - Biomedical Science

M3105.1**Location**

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students completing the Bachelor of Medical Science (Advanced) with a major in Biomedical Science will complete the following course structure.

Note: At least 60 credit points must be at Level 3 or above (four Schedule A units must be at least a Level 3 unit)

Year 1**Autumn session**

300802.3	Biodiversity
300811.2	Scientific Literacy
301126.2	Concepts in Human Anatomy

Choose one of

300800.3	Essential Chemistry 1
300808.3	Introductory Chemistry

Please note unit 300800 is no longer available from 2017. Students should take unit 300808 Introductory Chemistry.

Spring session

300816.2	Cell Biology
300803.2	Essential Chemistry 2
300818.1	Introduction to Physiology

Choose one of

300830.3	Analysis of Change
200263.6	Biometry
300831.5	Quantitative Thinking
300672.3	Mathematics 1A

Year 2**Autumn session**

300936.2	Functional Proteins and Genes
300937.2	Advanced Science Project A

Two schedule A units

Spring session

300848.2	Metabolism
300889.2	Pathological Basis of Disease
300938.2	Advanced Science Project B

One schedule A unit

Year 3**Autumn session**

300910.2	Advanced Science Project C
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300893.2 Topics in Medical Science

Two schedule A units

Spring session

300892.3 Medical Science Project

From 2022 300892 Medical Science Project will be replaced by 300924 Science Research Project

300924.2 Science Research Project

Three schedule A units

Schedule A Units

Choose eight of

300850.2	Advanced Cell Biology
300905.2	Advanced Immunology
300866.2	Analytical Microbiology
300820.3	Genes, Genomics and Human Health
300845.2	Genetics
300847.2	Immunology
300826.3	Medical Microbiology
300833.3	Microbiology 1
300896.2	Microbiology 2
300817.2	Molecular Biology
300927.3	Molecular Medicine

Major - Forensic Mortuary Practice

M3106.1

This major is only available to students in 6002 Diploma in Science/Bachelor of Medical Science and will involve study at both Campbelltown and Hawkesbury campuses.

Specialisation Structure

M3106.1 - Forensic Mortuary Practice is not available for selection from 2019 onwards.

Year 2**Autumn session****Campbelltown or Hawkesbury campus**

300806.2	Forensic Science
300936.2	Functional Proteins and Genes
300845.2	Genetics

Choose one of

300832.2	Analytical Chemistry
300843.2	Forensic and Environmental Analysis

Spring session**Campbelltown or Hawkesbury campus**

300817.2	Molecular Biology
300889.2	Pathological Basis of Disease
300898.4	Appendicular Skeleton

(Note: 300898 Appendicular Skeleton is only available at Campbelltown campus)

Summer session**Hawkesbury Campus****300935.3** Evidence and Crime Scene Management**Year 3****Autumn session****Campbelltown and Hawkesbury campus concurrently**

Campbelltown campus

300894.3 Anatomy of the Thorax and Abdomen

Hawkesbury campus

300868.2 Forensic Chemistry
301120.3 Forensic Anthropology
301127.2 Mortuary Practice

Note: 301127 - Mortuary Practice will be offered from 2019

Spring session**Campbelltown and Hawkesbury campus concurrently**

Campbelltown campus

300754.5 Neuroanatomy
300897.3 Anatomy of the Head and Neck

Hawkesbury campus

401170.3 Forensic Biology
301128.2 Advanced Mortuary Practice

Note: 301128 - Advanced Mortuary Practice will be offered from 2019

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 - Environmental Consulting**M4011.1**

This major in Environmental Consulting prepares graduates for jobs in environmental consulting companies, government environmental offices, land and water management agencies or non-government organisations. The natural resources boom and growing human population in Australia have created a demand for environmental specialists to conduct and prepare environmental assessments and impact statements. This major will provide you with broad skills in fauna, flora and habitat assessments, as well as, policy and regulation associated with planning and development in Australia.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete the following eight units

Level 1

200912.1 Enterprise Leadership
300813.2 Wildlife Studies

Choose one of

200263.6 Biometry
300831.5 Quantitative Thinking

Level 2

300841.2 Environmental Regulation and Policy

Level 3

300858.2	Environmental Risk Management
300918.4	Invertebrate Biology
300861.2	Vertebrate Biodiversity

Choose one of

300914.2	Field Project 2
300924.2	Science Research Project

Major - Crime Scene Investigation

M4012.1

This major reinforces the knowledge and practical skills required for crime scene investigation as a core forensic science discipline. It draws on key forensic science concepts such as evidence integrity and continuity, case file management, and the interpretation and presentation of forensic information. After completion of the major, students will be able to correctly document crime scenes through photography, note taking and diagrams, collect and analyse potential forensic evidence, interpret data from observations and scientific analyses, and present findings through written reports. As well as crime scene investigation, the major provides students with a solid grounding across a range of forensic science disciplines that include forensic biology, forensic chemistry and forensic anthropology.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

NOTE: This major is also available to students in Course 3562.9 Bachelor of Science (Advanced Science) - KT3149 - Forensic Science

Students must complete eight units as follows

Level 1

300874.3	Digital Forensic Photography
300806.2	Forensic Science

Level 2

300873.3	Crime Scene Investigation
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Choose one of

300843.2	Forensic and Environmental Analysis
401171.2	Imaging Science

Level 3

Select four of

300911.2	Complex Forensic Studies
300981.2	Environmental Forensic Investigations
301120.3	Forensic Anthropology
401170.3	Forensic Biology
300868.2	Forensic Chemistry

Major - Natural Science

M4013.1

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Start year Intake

Year 1

Autumn session

300804.2	Feeding the Planet
300811.2	Scientific Literacy
300823.2	Soils
301071.3	Introduction to Critical Thinking

Spring session

102421.2	Data, Mediation, Power
301096.2	Horticultural Production Systems
300805.2	Food Science 1

Introduction to Ecological Agriculture (AGR141) - in partnership with Charles Sturt University

Year 2

Autumn session

301097.2	Greenhouse Technology for Food Sustainability
300840.2	Environmental Planning and Climate Change
300931.2	Integrated Science

Choose one of

300808.3	Introductory Chemistry
300800.3	Essential Chemistry 1

Spring session

300791.2	Sustainable Food Production
301389.1	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

300865.2	Plant Physiology
300845.2	Genetics

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**

102421.2	Data, Mediation, Power
301096.2	Horticultural Production Systems
300805.2	Food Science 1
300811.2	Scientific Literacy

Autumn session

300804.2	Feeding the Planet
300802.3	Biodiversity
300823.2	Soils
301071.3	Introduction to Critical Thinking

Year 2**Spring session**

300791.2	Sustainable Food Production
301389.1	Agriculture, Food and Health
300932.2	Natural Science Research Methods

Introduction to Ecological Agriculture (AGR141) - in partnership with Charles Sturt University

1H/Autumn session

300913.2	Field Project 1
301097.2	Greenhouse Technology for Food Sustainability
300931.2	Integrated Science

Choose one of

300808.3	Introductory Chemistry
300800.3	Essential Chemistry 1

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

300865.2	Plant Physiology
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300845.2 Genetics

Replaced Units

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

300790 - Agriculture, Food and Health

Major - Social Sciences**M4014.1****Location**

Campus	Mode
Hawkesbury Campus	Multi Modal

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

300804.2	Feeding the Planet
300811.2	Scientific Literacy
300823.2	Soils
301071.3	Introduction to Critical Thinking

Spring session

102421.2	Data, Mediation, Power
301096.2	Horticultural Production Systems
300805.2	Food Science 1

Introduction to Ecological Agriculture (AGR141) - in partnership with Charles Sturt University

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
301389.1	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

102421.2 Data, Mediation, Power
301096.2 Horticultural Production Systems
300805.2 Food Science 1
300811.2 Scientific Literacy

1H/Autumn session

300804.2 Feeding the Planet
102212.3 Internship and Community Engagement
300823.2 Soils
301071.3 Introduction to Critical Thinking

Year 2

Spring session

300791.2 Sustainable Food Production
301389.1 Agriculture, Food and Health
300932.2 Natural Science Research Methods

Introduction to Ecological Agriculture (AGR141) - in partnership with Charles Sturt University

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

Replaced Units

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

300790 - Agriculture, Food and Health

Major - Business

M4015.1

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Start year Intake

Year 1

Autumn session

300804.2 Feeding the Planet
300811.2 Scientific Literacy
300823.2 Soils
301071.3 Introduction to Critical Thinking

Spring session

102421.2 Data, Mediation, Power
301096.2 Horticultural Production Systems
300805.2 Food Science 1

Introduction to Ecological Agriculture (AGR141) - in partnership with Charles Sturt University

Year 2

Autumn session

301097.2 Greenhouse Technology for Food Sustainability
300840.2 Environmental Planning and Climate Change
200083.3 Marketing Principles
200525.3 Principles of Economics

Spring session

300791.2 Sustainable Food Production
301389.1 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
 200087.3 Strategic Marketing Management
 200086.3 Marketing Communications

Mid-year Intake

Year 1

Spring session

- 300811.2 Scientific Literacy
 301096.2 Horticultural Production Systems
 300805.2 Food Science 1

Introduction to Ecological Agriculture (AGR141) - in partnership with Charles Sturt University

Autumn session

- 300804.2 Feeding the Planet
 200084.2 Consumer Behaviour
 300823.2 Soils
 301071.3 Introduction to Critical Thinking

Year 2

Spring session

- 300791.2 Sustainable Food Production
 301389.1 Agriculture, Food and Health
 300932.2 Natural Science Research Methods
 102421.2 Data, Mediation, Power

1H/Autumn session

- 300913.2 Field Project 1
 301097.2 Greenhouse Technology for Food Sustainability
 200083.3 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

Replaced Units

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

300790 - Agriculture, Food and Health

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
 300831.5 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
 301389.1 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
300831.5	Quantitative Thinking

Year 2**Spring session**

300791.2	Sustainable Food Production
301389.1	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

Replaced Units

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

300790 - Agriculture, Food and Health

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
300811.2	Scientific Literacy
300802.3	Biodiversity
300808.3	Introductory Chemistry

Spring session

300823.2	Soils
300831.5	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
301389.1	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
300831.5	Quantitative Thinking

Year 2**Spring session**

300791.2	Sustainable Food Production
301389.1	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

Replaced Units

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

300790 - Agriculture, Food and Health

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
300831.5	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
200083.3	Marketing Principles
200525.3	Principles of Economics

Spring session

300791.2	Sustainable Food Production
301389.1	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
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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
300831.5 Quantitative Thinking
300802.3 Biodiversity
300808.3 Introductory Chemistry

Year 2

Spring session

300791.2 Sustainable Food Production
301389.1 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
200083.3 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

Replaced Units

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

300790 - Agriculture, Food and Health

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

201099.1	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
201099.1	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
201099.1 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

Replaced Units

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

200922 - Consumers, Firms and Markets, replaced by
 201099 Consumers, Firms and Markets

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

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

Parramatta City Campus-Macquarie Street

Sydney City Campus

Mode

Internal

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

Enterprise Engaged Unit

200590.2 International Business 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
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

Campus	Mode	200865.2	Managing Operations
Sydney City Campus	Internal	200157.4	Organisational Learning and Development
WSU Online	Multi Modal	200376.4	Managing and Developing Careers

And one elective

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

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

And one elective

Year 5

Autumn session

200863.1 Leadership and Entrepreneurship

And one elective

Spring session

200157.4 Organisational Learning and Development

And one elective

Year 6

Autumn session

200919.1 Innovation and Professional Practice

And one elective

Spring session

200587.2 Strategic Management

Enterprise Engaged Unit

200568.3 Contemporary Management Issues

Major - Marketing

MT2027.1

Marketing focuses on the exchange process built around understanding and satisfying the needs and wants of customers. Often this is associated as doing business within a highly competitive business environment, yet marketing strategy is also important for government and not-for-profit organisations. This major introduces students to the core concepts of marketing theory, consumer behaviour, marketing communications, brand management, and marketing strategy. Graduates are equipped with the skills for marketing careers in a range of diverse industries across an international platform. This major satisfies the educational requirements for recognition as a Certified Practising Marketer and eligibility for membership of the Australian Marketing Institute.

Location

Campus	Mode
Bankstown Campus	Internal
Campbelltown Campus	Internal
Parramatta City Campus-Macquarie Street	Internal
Sydney City Campus	Internal
Uni of Economics Ho Chi Minh City	Internal

Campus

WSU Online

Mode

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
200083.3	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
200083.3	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

Enterprise Engaged Unit

200096.3 Marketing Planning Project

And two electives

Part-time

Year 1

Autumn session

200911.1 Enterprise Innovation and Markets
200909.2 Enterprise Law

Spring session

200083.3 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
200991.2	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

200991.2	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
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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

And one elective

Year 6**Autumn session****200991.2** 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
200991.2	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
200991.2	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

200991.2 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 - Biological Sciences

MT3006.1

Students completing the biological sciences program must follow the course structure for 3677 Bachelor of Science (Biological Science) and enrol in the Specialistaion MT3006 - Biological Science

Location

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

Specialisation Structure

Students completing the biological sciences program must follow the course structure for 3677 Bachelor of Science (Biological Science) and enrol in the Specialistaion MT3006 - Biological Science

Major - Chemistry

MT3007.1

Students completing the chemistry program must follow the course structure for 3676 Bachelor of Science (Chemistry) and enrol in the Specialisation MT3007

Location

Campus	Mode
Campbelltown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students completing the chemistry program must follow the course structure for 3676 Bachelor of Science (Chemistry) and enrol in the Specialisation MT3007

Major - Mathematical Science

MT3008.1

Students completing the mathematical sciences program must follow the course structure for 3679 Bachelor of Science (Mathematical Science) and enrol in the Specialistaion MT3008

Location

Campus	Mode
Campbelltown Campus	Internal
Parramatta Campus - Victoria Road	Internal

Specialisation Structure

Students completing the mathematical sciences program must follow the course structure for 3679 Bachelor of Science (Mathematical Science) and enrol in the Specialistaion MT3008

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

300831.5	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
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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

300831.5	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)
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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)
700123.4	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

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

300831.5 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

300831.5	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)
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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)
700123.4	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

- 300831.5** 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

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

300831.5	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)
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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)
700061.4	Introduction to Human Biology (WSTC)
700123.4	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
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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
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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

300831.5	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
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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

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

300831.5	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)

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)
700123.4 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

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
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Choose one of

300831.5	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
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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

300831.5	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)

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)
 700123.4 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

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

Campus	Mode
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

300831.5	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

300826.3	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

300831.5	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**

- 300826.3** 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)
700123.4 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**

- 300826.3** 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

300831.5	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

300831.5	Quantitative Thinking
300672.3	Mathematics 1A
200263.6	Biometry

Year 2**Summer session**

300936.2	Functional Proteins and Genes
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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)
700123.4 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
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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)

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)
700123.4	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)

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)
700123.4	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
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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

Autumn session

300843.2 Forensic and Environmental Analysis
300876.2 Organic Chemistry

And one elective

Spring session

401171.2 Imaging Science

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

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
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

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
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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
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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

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

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)

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)
700123.4	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)
700123.4	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
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Choose one of

300672.3	Mathematics 1A
300831.5	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
300831.5 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)
700123.4 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
300831.5 Quantitative Thinking

And one elective

NOTE: All commencing students must take Essential Chemistry 2 (as the elective unit) and Cell Biology in Spring semester of Year 1.

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
300754.5 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
300831.5 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)
700123.4 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
300754.5 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

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

Choose one of

300803.2 Essential Chemistry 2
300816.2 Cell Biology

Choose one of

300831.5 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

Note: 300899 Inorganic Chemistry is offered in Spring 2021

300876.2 Organic Chemistry

And one elective

Spring session

300884.3 Pharmacology

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

- 300831.5** 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
300831.5 Quantitative Thinking

And one elective

NOTE: All commencing students must take Essential Chemistry 2 (as the elective unit) and Cell Biology in Spring semester of Year 1.

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
300820.3	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
300831.5	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
300820.3	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)
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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)
700123.4	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
300820.3 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

300831.5 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

Part-time

Please Note: Some units require attendance at workshops during mid-semester break.

Year 1

Autumn

300802.3 Biodiversity

300811.2 Scientific Literacy

Spring

300831.5 Quantitative Thinking
301271.1 Environmental Issues and Solutions

Year 2

Autumn

300824.2 Management of Aquatic Environments
300808.3 Introductory Chemistry

Spring

300816.2 Cell Biology

And one elective

Year 3

Autumn

300361.4 Introduction to Human Biology
300833.3 Microbiology 1

Spring

301403.1 Environmental Planning, Policy & Regulation
300877.2 Toxicology

Year 4

Autumn

300872.2 Epidemiology

And one elective

Spring

301273.1 Land Degradation and Contamination
301259.1 Work Internship for Science Professionals

Year 5

Autumn

301276.1 Air Pollution & Control
300919.2 Occupational Health and Safety

Spring

300880.2 Disaster and Emergency Management
300859.2 Food Safety

Year 6

Autumn

300913.2 Field Project 1

And one elective

Spring

300867.2 Disease Prevention and Control

And one elective

Please Note: Some units require attendance at workshops during mid-semester break.

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)
700123.4 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

Part-time**Years one and two: The College units**

Students must consult the Academic Course Advisor to determine their part-time sequence of study for The College units.

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)
700123.4 Quantitative Thinking (WSTC)
700297.1 Management of Aquatic Environments (WSTC)
700296.1 Environmental Issues and Solutions (WSTC)

And one elective

Please Note: Some units require attendance at workshops during mid-semester break.

Year 3**Autumn**

300361.4 Introduction to Human Biology
300833.3 Microbiology 1

Spring

300841.2 Environmental Regulation and Policy
300877.2 Toxicology

Year 4**Autumn**

300872.2 Epidemiology

And one elective

Spring

301273.1 Land Degradation and Contamination
301259.1 Work Internship for Science Professionals

Year 5**Autumn**

301276.1 Air Pollution & Control
300919.2 Occupational Health and Safety

Spring

300880.2 Disaster and Emergency Management
300859.2 Food Safety

Year 6**Autumn**

300913.2 Field Project 1

And one elective

Spring

300867.2 Disease Prevention and Control

And one elective

Please Note: Some units require attendance at workshops during mid-semester break.

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
301109.4 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
301110.2 Applications of Big Data

And two electives

Spring session

301111.3 Discovery Project

And three 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
301109.4 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
301110.2 Applications of Big Data

And one elective

Spring session

301111.3 Discovery Project
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)

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)

700123.4 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
- 301109.4** 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
- 301110.2** Applications of Big Data

And two electives

Spring session

- 301111.3** Discovery Project

And three 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

- 300831.5** 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 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

And one elective

Spring session

300803.2 Essential Chemistry 2
300816.2 Cell Biology

Choose one of

300831.5 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)
700123.4 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
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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

300831.5	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
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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**

300913.2	Field Project 1
300870.2	Water in the Landscape

And two electives

Spring session

301409.1	Sustainable Environments
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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

300831.5	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
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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)
700123.4	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 - Education Studies**SM1067.1**

The Education Studies sub-major comprises a foundation pool of units which addresses key issues in contemporary educational thinking and practice. Education has a key role to play in bridging the gap between social advantage and disadvantage, in transforming the lives of individuals and their families and building capacity within communities.

Location

Campus	Mode
Bankstown Campus	Internal
Penrith Campus	Internal

Specialisation Structure

Students must complete 40 credit points from the following units

- 101263.1** Education and Transformation
101663.2 Education for Sustainability
101661.2 Education in a Cosmopolitan Society
101874.3 Experiential Learning in Communities (ELC)
101259.3 Learning and Creativity
101662.1 Young People, Their Futures and Education

Sub-major - 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

- 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
- 102914.1 Comedy and Tragedy: Dramas of Death and Rebirth
- 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.

Equivalent Specialisation Unit

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

100900 - Comedy and Tragedy

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

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

Campus	Mode
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
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
102908.1	Thought and Action in Greece and Rome
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

Equivalent Specialisation Unit

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

- 101881 - Philosophy and the Good Life

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

Campus	Mode
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 - 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
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

Sub-major - Indonesian**SM1112.1**

Note: the Indonesian sub-major will no longer be available from 2021. 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
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101184.4	Psychology: Human Behaviour
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And

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

Level 2 unit pool

101684.5	Brain and Behaviour
100013.5	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
101682.8	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

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
102914.1	Comedy and Tragedy: Dramas of Death and Rebirth
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.

Equivalent Specialisation Unit

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

100900 - Comedy and Tragedy

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
101906.2	Researching Culture
102913.1	Introduction to Culture and Society
101979.1	Understanding Visual Culture

Bachelor of Creative Industries Students

Creative Industries students will have already completed 100897 Everyday Life (2021 and prior) or 102913 Introduction to Culture and Society (from 2022) 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

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
102862.1	Migration and Social Change
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
101731.3	Understanding Power
101898.1	Violence in Everyday Life
101010.3	What is the Human?

Equivalent Specialisation Units

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

100897 - Everyday Life

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
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- 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
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
102861.1 Medieval Europe from the Fall of the Roman Empire to the Reformation
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 2019 or earlier.

102002 - Religion and the Origins of Modern Science

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 - Food Technology - Secondary Teaching

SM3038.1

The food technology sub-major brings together food science and nutrition with education studies to meet the graduate requirements for teaching in food technology as a second teaching area. This sub-major includes specialised studies in food processing, new food product development, nutrition, contemporary food issues, and the food marketplace relevant to the Australian food industry. The program has strong industry links, well-equipped facilities including food processing pilot plant and modern kitchen facilities.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete four units as follows

Year 1

Spring session

300805.2 Food Science 1

Year 2**Autumn session****300842.3** Food Science 2

Choose two of

Year 2**Autumn session****300933.2** Nutrition and Health 1**Year 2****Spring session****300879.2** Experimental Foods**Year 3****Autumn session****300871.2** Culinary Science**Year 3****Spring session****300915.2** Food Product Development
300904.2 Advanced Food Science and Technology**Sub-major - Statistics****SM3039.1**

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. Thus students contemplating honours in any discipline should seriously consider taking this sub-major as part of their undergraduate degree. It 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 undergraduate students except those enrolled in Bachelor of Science (Mathematical Science).

Students must complete four units as follows

200033.5 Applied Statistics
200037.4 Regression Analysis & Experimental Design
200038.3 Time Series and Forecasting

Choose one of

200263.6 Biometry

200032.7 Statistics for Business
300700.7 Statistical Decision Making

Sub-major - Biochemistry and Molecular Biology**SM3041.1**

This sub-major will develop knowledge and skills in biochemistry and molecular biology important in industrial or research-based employment (biotech companies, pathology, quality assurance, university and hospital labs and scientific sales, government policy analysis). Students will read, critique and evaluate research so that they develop independent learning skills and the confidence needed to deal with the rapid expansion of content in this area of Biology.

Location

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

Specialisation Structure

The Biochemistry and Molecular Biology sub-major is available to all undergraduate students except those enrolled in the Biochemistry and Molecular Biology major. Students must complete four units as follows

Level 2

300936.2 Functional Proteins and Genes
300848.2 Metabolism
300817.2 Molecular Biology

Level 3

Choose one of

300820.3 Genes, Genomics and Human Health
300927.3 Molecular Medicine

Sub-major - Conservation Biology**SM3042.1**

Conservation biology has emerged as a field of study from a synthesis of the ecological, demographic, genetic and societal risks faced by small natural populations. This sub-major equips students with skills in fundamental biology, in the ecology of populations and communities, in population genetics and in the legal conservation framework to enable them to work in this area.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

The Conservation Biology sub-major is available to all undergraduate students except those enrolled in the Conservation Biology major

Students must complete four units as follows

Level 1

Choose one of

300802.3	Biodiversity
300813.2	Wildlife Studies

Level 2

300839.2	Ecology
300845.2	Genetics

Level 3

300855.2	Conservation Biology
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Sub-major - Microbiology**SM3044.1**

Microorganisms impact on all aspects of our lives. A microbiology sub-major will equip students with the skills and knowledge of microbiology and molecular microbiology relevant to employment in research laboratories and industries including biotechnology companies, medical and environmental laboratories, food, wine and pharmaceutical companies, quality assurance and scientific sales.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

The Microbiology sub-major is available to all undergraduate students except those enrolled in the Microbiology major.

Students must complete four units as follows

Level 2

300833.3	Microbiology 1
300896.2	Microbiology 2

Level 3

300866.2	Analytical Microbiology
300826.3	Medical Microbiology

Sub-major - Zoology**SM3045.1**

This sub-major will allow students to develop scientific understanding of how animals function and interact with their environment; from their ecology and evolution; to physiology and biochemistry of tissues and major organ systems, as well as down to structure and function of biomolecules and cells.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

The Zoology sub-major is available to all undergraduate students except those enrolled in the Zoology Major.

Students must complete four units as follows

Level 1

300813.2	Wildlife Studies
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Level 2

300834.2	Animal Health and Welfare
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Level 3

Choose two of

300878.2	Animal Behaviour
300855.2	Conservation Biology
300918.4	Invertebrate Biology
300861.2	Vertebrate Biodiversity

Sub-major - Sustainable Environmental Management**SM3046.1**

Solution to environmental problems requires both a technical/scientific 'fix', and an agreed social implementation, or management 'fix'. This sub-major covers the essentials of environmental management as an academic discipline, giving students knowledge and skills in the social, legislative and planning frameworks within which environmental practitioners must work to implement solutions to environmental problems.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

The Sustainable Environmental Management sub-major is available to all undergraduate students except those enrolled in the Environmental Management major.

Students must complete four units as follows

Level 2

300840.2 Environmental Planning and Climate Change
300841.2 Environmental Regulation and Policy

Level 3

300858.2 Environmental Risk Management
300860.2 Urban Environment

Sub-major - Climate Change

SM3048.1

One of the major problems society faces is how to move to an economy and way of life that is sustainable for our planet. This submajor equips students with the skills to address the scientific issues behind global climate change; what makes it happen, and how we can reduce or mitigate its impacts on the earth and its biota.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

The Climate Change sub-major is available to all undergraduate students except those enrolled in the Climate Change major.

Students must complete four units as follows

Level 2

300837.2 Climate Change Science
300840.2 Environmental Planning and Climate Change

Level 3

300909.2 Biological Adaptation to Climate Change
300856.2 Ecosystem Carbon Accounting

Sub-major - Immunology and Cell Biology

SM3049.1

This sub-major will equip students with knowledge and skills in immunology, cell and molecular biology to allow students to enter industrial or research-based employment in this area (biotech companies, pathology, quality assurance, university and hospital labs and scientific sales, government policy analysis). As this area has expanding knowledge and technologies, outcomes also include the

ability to read, critique and evaluate emerging research with the view to becoming a life-long learner in the field.

Location

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

Specialisation Structure

Students must complete four units as follows

Level 2

300847.2 Immunology
300817.2 Molecular Biology

Level 3

300850.2 Advanced Cell Biology
300905.2 Advanced Immunology

Sub-major - Physics

SM3050.1

The physics sub-major is designed to provide the basic curriculum for students who have an interest in physics while intending to pursue a degree in some other field. The sub-major offers units that practicing physicists would normally be expected to have studied. Consequently, those who already have in mind a career in teaching, research, industry or education will graduate with a basic, solid preparation in Physics.

Location

Campus	Mode
Campbelltown Campus	Internal

Specialisation Structure

The Physics sub-major is available to all undergraduate students. These are core units from 3674 Bachelor of Medical Science (Nanotechnology).

Students must complete four units as follows

Level 1

300828.2 Physics 1
300829.2 Physics 2

Level 3

301392.1 Quantum Physics

Note: from 2021 this unit replaces 300923 Quantum Physics

301262.1 Classical Physics

Note: from 2022 this unit replaces 300930 Classical Physics and Advanced Technologies

Sub-major - Aquatic Environments

SM3062.1

Aquatic and marine environments play vital roles in providing food, water, recreation and other ecosystem services to human society, as well as providing habitat for important species that make up global biodiversity. This sub-major will equip students with the background knowledge and training to work in aquatic and marine environments, assess water quality to learn skills in inquiry and problem solving and understand legislation on water, so that they can contribute beneficially to management and/or conservation of waterways and oceans and the biodiversity within them.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

The Aquatic Environments sub-major is available to all Western Sydney University undergraduate students except those enrolled in the Aquatic Biology major

Students must complete the following four units

Level 1

300824.2	Management of Aquatic Environments
300814.2	Water Quality Assessment and Management

Level 3

300929.1	Aquatic Ecology
300978.2	Marine and Aquatic Ecology
300870.2	Water in the Landscape

Sub-major - Zoology

SM3063.1

This sub-major will allow students to develop scientific understanding of how animals function and interact with their environment; from their ecology and evolution; to physiology and biochemistry of tissues and major organ systems, as well as structure and function of biomolecules and cells.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete four units as follows

Level 1

300813.2	Wildlife Studies
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Level 2

300980.2	Principles of Evolution
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Level 3

Choose two of

300878.2	Animal Behaviour
300855.2	Conservation Biology
300918.4	Invertebrate Biology
300861.2	Vertebrate Biodiversity

Sub-major - Environmental Management

SM3079.1

Solution to environmental problems requires both a technical/scientific 'fix', and an agreed social implementation, or management 'fix'. This sub-major covers environmental management as an academic discipline, giving students knowledge and skills in the social, legislative and planning frameworks within which environmental practitioners must work to implement solutions to environmental problems.

Location

Campus	Mode
Hawkesbury Campus	Internal

Specialisation Structure

Students must complete four units as follows

Level 2

Choose two of the following

300840.2	Environmental Planning and Climate Change
300841.2	Environmental Regulation and Policy
101878.2	Indigenous Landscapes
300875.2	Landuse and the Environment

Level 3

Choose two of the following

300858.2	Environmental Risk Management
300860.2	Urban Environment

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 - 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
300826.3	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.

.....

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.

.....

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.

301247.3 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.

.....

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.

101882.1 A History of Modern Global Buddhism

Credit Points 10 **Level** 2

Equivalent Units

63120 - Communication and Culture in Asia 2: Performing Asian Cultures and Identities

Incompatible Units

100850 - Buddhism in the Contemporary World

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

.....

A history of Buddhism and its spread through Asian and more recently to the West, introducing its principal beliefs and practices, the diversity of its manifestations, its political, cultural, and social impact. This unit is a history of this current global religion in its social, cultural and political context.

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)

.....

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

.....

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.

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.

.....

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.

.....

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

.....

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.

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

.....

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.

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.

.....

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.

101981.1 Activism, Engagement and Social Change

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

.....

This unit is designed for students interested in the politics, processes and ethics of social change. It covers the topics of Internet activism, NGO politics and ethics, identity politics, legal lobbying, revolutions and regime changes, and the role of art in consciousness raising. We will explore the efficacy of different social change strategies, the ethics of various modes of activism, the role that national and transnational politics plays in campaigning, the importance of identity for engagement with social change processes, and the ideologies informing theories of change.

200897.2 Advanced Analysis and Interpretation

Credit Points 10 **Level** 4

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.

.....

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.

301010.3 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.

300850.2 Advanced Cell Biology

Credit Points 10 **Level** 3

Prerequisite

300848.1 Metabolism OR **300936.1** Functional Proteins and Genes OR **300817.1** Molecular Biology OR **300847.1** Immunology

Equivalent Units

300408 - Mammalian Cell Biology and Biotechnology;
300544 - Cell Signalling

Incompatible Units

300223 - Cell Signalling and Molecular Immunology

Special Requirements - Essential Equipment

Lab coat, enclosed footwear

Cells of the body are studied in the context of health and disease, including mechanisms by which cells respond to the environment and integrate in and around tissue. Fundamental cellular processes are discussed that are important in embryonic development, stem cells, haematology and cancer. This unit investigates the action of hormones, growth factors and morphogens; their receptors and signalling pathways and the cellular responses they trigger. This unit covers modern techniques in cell culture, tissue engineering, advanced microscopy and other modern experimental approaches that enable dynamic understanding of live cell function.

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.

301008.3 Advanced Composite Structures

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

This unit enables students to gain an in-depth knowledge into composite structures based on Australian Standards and International Standards. Recent advances in the design of composite beams, slabs, columns and connections will be introduced.

301023.3 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

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.

301022.3 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

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.

900076.2 Advanced Computer Studies (WSTC)

Credit Points 10 **Level** Z

300603.5 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.

300173.5 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.

301019.3 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.

300601.5 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.

300904.2 Advanced Food Science and Technology

Credit Points 10 **Level** 3

Prerequisite

300842.1 Food Science 2 AND 300922.1 Quality Assurance and Food Analysis

Equivalent Units

300780 - Advanced Food Science and Technology

Incompatible Units

300636 - Food Processing and Analysis, 300641 - Packaging Science and Technology

Special Requirements - Essential Equipment

Students required to have Personal Protection Equipment e. g. Laboratory coat, safety goggles, enclosed shoes.

.....

This unit will extend student understanding of current and emerging food processes and packaging technologies. Students will gain an appreciation of the physicochemical processes involved in food manufacture and their integration to produce safe, nutritious and palatable food. Students will become familiar with methods to monitor shelf life of foods, learn about packaging science and be able to select the most appropriate packaging solution for a range of food applications. The environmental impact of food processing and packaging will also be explored, along with the factors affecting the sustainability of food manufacture. Practical workshops will be conducted to produce and analyse food products, plus factory tours to food manufacturing and packaging sites.

300604.5 Advanced Geotechnical Engineering

Credit Points 10 **Level** 7

Assumed Knowledge

Fundamental knowledge of soil mechanics.

Equivalent Units

300520 - Foundation Engineering (PG)

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

.....

This unit will provide an overview of soil mechanics concepts required for the solution of practical geotechnical engineering problems. Students will be taught soil and foundation analysis including design techniques. The topics will cover shallow foundations, pile foundations, the stability of earth retaining structures, excavations, soft soils,

groundwater flow and stability of slopes. Practical engineering cases will be emphasized.

301011.4 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.

.....

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

.....

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.

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

.....

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.

301020.3 Advanced Mobile Robotics

Credit Points 10 **Level** 7

Assumed Knowledge

Some basic skills in MATLAB and C/C++ programming.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

.....

This unit is designed to develop an understanding of the concepts involved in Mobile Robotics. The areas of mobile robot mechanics, localisation, map building and path planning will be introduced. Various sensors and their applications in mobile robotics are also to be introduced.

301128.2 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.

301024.3 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.

300851.1 Advanced Physiology

Credit Points 10 **Level** 3

Assumed Knowledge

Demonstrated sound understanding of physiological systems of the human body.

Prerequisite

300818.1 Introduction to Physiology OR **300838.1** Comparative Physiology

Equivalent Units

300622 - Human Physiology, 300326 - Topics in Physiology, 301355 - Advanced Physiology

Special Requirements - Essential Equipment

Laboratory coat, safety goggles, enclosed footwear.

.....

From 2020 this unit is replaced by 301355 - 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.

301025.3 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.

.....

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 the research methods and statistics in the prerequisite unit, Experimental Design and Analysis. It introduces students to non-experimental, correlational research design, and survey research, including questionnaire design, sampling and administration, with reference to ethics particularly related to cultural contexts and specific groups. Knowledge and skills in the construction and evaluation of psychological tests are also taught. Related 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 and provides an introduction to qualitative research.

300599.5 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.

300910.2 Advanced Science Project C

Credit Points 10 **Level** 3

Prerequisite

300938.1 Advanced Science Project B

Equivalent Units

300593 - Advanced Science Research Project C

Unit Enrolment Restrictions

Students must be enrolled in 3562 - Bachelor of Science (Advanced Science), 3682 - Bachelor of Medical Science (Advanced) or 3683 - Bachelor of Natural Science (Advanced).

.....

This unit advances the students' training in thinking as a research scientist whilst developing practical skills in a particular area of interest. The student undertakes a minor research project under supervision, during which they plan how to answer a research problem, conduct research and present their findings in a research paper format and seminar.

300596.5 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.

301026.3 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.

301013.3 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.

300594.6 Advanced Structural Analysis

Credit Points 10 **Level** 7

Assumed Knowledge

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

Incompatible Units

300205 - Linear and Nonlinear Analysis of Structures, 300367 - Advanced Structural Engineering, 300195 - Numerical and Finite Element Methods

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit will introduce students at postgraduate level to structural analysis of trusses, beams, frames and plates. It covers the slope deflection method and matrix method for analysis of beams, trusses and frames, and the bending and buckling analysis of beams and plates under various loading conditions. The theories learned in classes will be reinforced in practical sessions by using computer software packages.

301021.3 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.

301009.3 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

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.

301017.3 Advanced Waste Management

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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.

300595.5 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.

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.

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.

301389.1 Agriculture, Food and Health

Credit Points 10 **Level** 2

Assumed Knowledge

Basic understanding of resource sustainability issues

Incompatible Units

300619 - 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.

300852.2 Air Quality and Climate Change

Credit Points 10 **Level** 3

Equivalent Units

300777 - Air Quality and Climate Change, 300628 - Air Quality Management

Unit Enrolment Restrictions

Successful completion of 60 credit points at Level 1 and 40 credit points at Level 2. Students must wear enclosed footwear during field visit.

Special Requirements - Essential Equipment

Students must wear enclosed footwear during field visit.

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Deteriorating air quality and climate change are two major challenges facing humanity and threatening environmental sustainability and human health. As such, air quality and climate change are of International, National, State and local community concern. This unit critically analyses the many issues that relate to air pollution, including its nature, extent, impacts and monitoring. Students will examine an air pollution issue of their choice.

100985.2 American Foreign Policy Since 1945

Credit Points 10 **Level** 3

Equivalent Units

B3845 - American Foreign Policy, 100907 - American Foreign Policy Since 1945

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit will analyse both the major international issues and crises which America confronted after 1945 and how successive American presidents and their policy makers responded to these problems

100966.3 American History, 1898-1945

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit offers a history of the United States of America from 1898 until 1945. It examines the key events and issues from the Spanish-American War to the New Deal and Isolationism which shaped the course of modern America.

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.

300830.3 Analysis of Change

Credit Points 10 **Level** 1

Assumed Knowledge

General Mathematics background achieved at bands 5 or 6, or Mathematics, achieved at band 4, or equivalent or 300831 Quantitative Thinking.

Equivalent Units

200191 - Fundamentals of Mathematics; 700108 - Analysis of Change (WSTC)

Incompatible Units

300672 - Mathematics 1A

Unit Enrolment Restrictions

Students may complete the three units Quantitative Thinking, Analysis of Change and Maths 1A in the following order: 300831 Quantitative Thinking, 300830 Analysis of Change, 300672 Mathematics 1A. This means that students may complete 300831 before attempting 300830, but not after. 300830 and 300831 may be attempted before 300672, but not after. Students may not enrol in 300831 and 300830 or 300831 and 300672 or 300830 and 300672 in the same teaching session. Students enrolled in the Bachelor of Engineering (Honours), Bachelor of Engineering or Bachelor of Engineering Science may not enrol in any of the units 300830, 300831 or 300672.

Special Requirements - Essential Equipment

Scientific calculator, access to a computer with mathematical software packages eg Excel, Mathematica, MathCad installed.

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This Level 1 unit introduces students to the mathematical modelling techniques that are used to formulate and solve problems in the physical and biological sciences. To use these techniques successfully, students must develop the ability to formulate a problem mathematically and then be able to use the appropriate knowledge to test conclusions by analytical and numerical means. These skills will be emphasized as each technique is introduced. Apart from some introductory work on logarithms and exponentials (essential concepts in the sciences), the main techniques developed involve aspects of differential calculus, culminating in the use of differential equations to model real phenomena in the sciences.

101646.3 Analysis of Spatial Data

Credit Points 10 **Level** 2

Equivalent Units

400343 - Analysis of Spatial Data

Unit Enrolment Restrictions

Successful completion of 40 credit points.

The making and the use of maps. This unit involves the critical examination of the way geographical data is produced, analysed, mapped and used to inform both private and public decisions. Natural environment, health, accessibility and residential amenity are examples of phenomena that have an important geographical dimension. Policy responses to these phenomena need to be specific with regard to locations and places. Geographic information systems software and census will be used to produce maps based on the analysis and interpretation of data relating to the student's field of interest.

401175.1 Analytic Approaches in Epidemiology

Credit Points 10 **Level** 7

Assumed Knowledge

Introductory skills in epidemiology, including measures of disease frequency and association, epidemiologic study designs, and principles of bias and confounding.

Prerequisite

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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

This unit extends the basic principles of epidemiology introduced in 401076 'Introduction to Epidemiology' and equips students with practical analytical skills to design and conduct epidemiological studies. The unit considers the principle models of causation and analytical approaches to epidemiological study design and analysis. Students will use causal diagrams and evidence from the literature to develop analytic strategies for specific study designs, develop practical skills in calculating and interpreting measures of association and effect modification, and be introduced to principles and strategies for quantitative bias analysis.

100846.2 Analytical Reading and Writing

Credit Points 10 **Level** 1

Equivalent Units

700131 - Analytical Reading and Writing (WSTC), 102735 - Foundations of Academic English, 700291 - Foundations of Academic English (WSTC)

In 2020 this unit replaced by 102735 - Foundations of Academic English. This unit aims to develop and refine students' communication skills in analytical reading, writing, critical reasoning and the analysis of argument. It aims to develop students' understanding of how arguments are made, along with their ability to analyse and evaluate arguments, while at the same time developing students' capacity to make sophisticated arguments in essay form.

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.

100244.2 Ancient Western Culture: Periclean Athens

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points in the students' current enrolled course

The Athens of Pericles is studied from three perspectives: philosophy, politics, and history. The use of reason and rhetoric is examined through the works of some pre-Socratics, Sophists and Socrates. The focus on philosophy and politics will be placed in the context of the history of the city-state and democratic citizenship.

300834.2 Animal Health and Welfare

Credit Points 10 **Level** 2

Prerequisite

[300802.1](#) Biodiversity

Equivalent Units

300424 - Animal Health and Welfare

Special Requirements - Essential Equipment

Outdoor attire / Lab coats, enclosed footwear for indoor labs

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This unit will introduce students to the major issues related to animal health and welfare that form essential knowledge for those working with animals. In particular, students will gain an understanding of disease and methods for disease control as well as an introduction to disease diagnosis. In addition, students will gain knowledge about the relationships between animal management and the health and welfare expectations for domesticated and wild animals. The causes of common animal diseases will be introduced as well as the legal obligations of those owning, working or observing animals with respect to maintaining and monitoring their health and welfare.

300898.4 Appendicular Skeleton

Credit Points 10 **Level** 2

Prerequisite

[300825.2](#) Introduction to Anatomy OR [301126.1](#) Concepts in Human Anatomy

Equivalent Units

300755 - The Appendicular Skeleton, 300325 - The Appendicular Skeleton

Incompatible Units

400881 - Functional Anatomy

Unit Enrolment Restrictions

Students must be enrolled in 3673 Bachelor of Medical Science, 3682 Bachelor of Medical Science (Advanced), 3733 Bachelor of Medical Science (Forensic Mortuary Practice) or 6002 Diploma in Science/Bachelor of Medical Science. Students must also have a laboratory coat in this unit.

Special Requirements - Essential Equipment

Students must have a laboratory coat.

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This musculoskeletal unit builds on the basic anatomy taught during the first year, offering a regional study of the human upper and lower limbs, including their respective girdles. Emphasis is placed on the identification and description of the structures, including the correlation of structure and function. Cadaveric specimens are used to aid the learning of these regions and their three-dimensional aspect, including the anatomical variation found in these regions.

301110.2 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

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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.

301312.1 Applied Machine Learning

Credit Points 10 **Level** 7

Assumed Knowledge

Some probability and statistics knowledge would be advantageous.

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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.

800215.1 Applied research with marginalised populations and sensitive health topics

Credit Points 10 **Level** 7

Assumed Knowledge

Students will need basic knowledge of research design/ approaches e.g. 800166 'Research Design 1: Theories of Enquiry' or 401076 'Introduction to Epidemiology' or 401080 'Research Protocol Design and Practice' or similar.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit will teach students practical knowledge and skills for conducting research with marginalised populations and on sensitive health topics. Students will learn ethical,

methodological, and practical considerations in applied qualitative and mixed method research. Upon completion of the unit students will be able to develop a theoretically coherent qualitative or mixed method research protocol and justify their decision making at every stage of the research process. The skills developed in this unit will enable students to adapt research methods to ensure the integrity of the research process with marginalised populations and sensitive health topics.

200033.5 Applied Statistics

Credit Points 10 **Level** 2

Prerequisite

200032.5 Statistics for Business OR 300700.5 Statistical Decision Making OR 200263.4 Biometry OR 200052.4 Introduction to Economic Methods

Unit Enrolment Restrictions

Scientific calculator and access to a computer with appropriate software, using Minitab, Excel and SPSS.

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From 2016 this unit has been replaced by 301032 Making Sense of Data. The unit builds on the basic statistical concepts introduced in first year, and also prepares students for broader application of statistics for those majoring in science or business. Topics include some common probability distributions; revision of hypothesis testing; analysis of categorical data; analysis of variance; simple and multiple linear regression analysis and correlation; some nonparametric methods; and fundamentals of time-series analysis.

100641.3 Approaches to Text

Credit Points 10 **Level** 1

Equivalent Units

63165 - Approaches to Text, 700136 - Approaches to Text (WSTC)

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Why do we read books? Reading literary texts is crucial to our ways of understanding the world and ourselves. In this unit students learn that reading resilience, close reading skills and the ability to identify specific literary techniques are foundational to studying literature. Students will read a range of Australian texts including fiction, poetry, short stories, drama and criticism. They will analyse how meanings in those texts are shaped by diverse cultural and international contexts. This unit builds reading capacity while engaging students in key debates about literature today: what it means, how it works, and why it matters.

300655.3 Approved Industrial Experience

Credit Points 0 **Level** 2

Equivalent Units

SC204A - Approved Industrial Experience, EH218A - Approved Industrial Experience

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This is a "Work Experience" unit, for which no student contribution fee is charged, nor will it consume Student Learning Entitlement (SLE). Students are required to obtain

at least ten weeks, vocationally relevant, industrial experience during their course of study. The aim of this is to provide students with opportunities to apply theoretical concepts to real world situations, assisting their personal and professional development. Approved industrial experience aims to provide flexibility for students to pursue areas of interest and to assist in their selection of appropriate elective units in their course and to meet the professional accreditation requirements as maybe required in your key program. Students are required to organise, formalise and validate at least ten weeks of university approved industry experience within an industrial, commercial or government situation during the course of their study.

300929.1 Aquatic Ecology

Credit Points 10 **Level** 3

Assumed Knowledge

Concepts of classification, evolution, taxonomy, cellular processes plant and animal structure and function, normal distribution, representative sampling, probability and uncertainty.

Equivalent Units

300465 - Aquatic Ecology, 300978 Marine and Aquatic Ecology

Unit Enrolment Restrictions

Successful completion of 80 Credit Points at Level 1 and 40 credit points at Level 2.

Special Requirements - Essential Equipment

Students must have covered footwear for field excursions.

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Temperate freshwater, estuarine and marine aquatic ecosystems play vital roles in providing food, water, recreation and other ecosystem services to human society and habitats for important species that make up global biodiversity. Yet aquatic habitats are the most threatened ecosystems on earth, under threat from global climate change and urbanisation. Through inquiry and problem solving this unit will equip students with the necessary techniques in experimental design and analysis needed to investigate aquatic ecosystems and knowledge of the main animal and plants in aquatic and marine ecosystems. The logic and philosophy of science, scientific studies and experimental analyses will be used to understand temperate aquatic ecosystems throughout this unit. On completion students will have the background knowledge and skills communicate to a range of audiences, so that they can contribute beneficially to management and/or conservation of waterways and oceans and the biodiversity within.

100041.2 Arabic 101

Credit Points 10 **Level** 1

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This unit is designed as an introduction to the Arabic language as well as the contemporary and popular culture of the Arabic-speaking people. It is intended for students who are at beginner level in Modern Standard Arabic in all four skills -listening, speaking, reading and writing. Components of this unit may be presented in English.

Students with a background of study in the language need to obtain advice on their appropriate level of language study. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher class. Students should consult the Languages Academic Course Advisor or Unit Coordinator if they are unsure of their entry level.

100042.2 Arabic 102

Credit Points 10 **Level** 1

Assumed Knowledge

100041 Arabic 101 or equivalent knowledge

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This is a post beginner level unit in Arabic building on the knowledge and skills developed in Arabic 101. It aims to further develop listening, speaking, reading and writing skills in elementary Arabic. The unit includes a socio-cultural component which will examine aspects of the contemporary Arab world and its culture with a particular emphasis on the Arabic-speaking community in Australia. Students with a background of study in the language need to obtain advice on their appropriate level of language study. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher class. Students should consult the Languages Academic Course Advisor or Unit Coordinator if they are unsure of their entry level.

102019.1 Arabic 201

Credit Points 10 **Level** 2

Assumed Knowledge

100042 - Arabic 102 or equivalent knowledge

Equivalent Units

101699 - Language and Communication Skills 2A: Arabic

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This is an intermediate level unit in Arabic intended for two groups of students: (a) students of English speaking backgrounds or other language backgrounds who have achieved a degree of competence in the language at least at the HSC Level; and (b) Arabic language background students whose education has been in English as the medium of instruction in all subjects other than Arabic and who, therefore, have some gaps in their knowledge of Arabic, particularly in situations requiring a more formal language register. The unit is designed to consolidate and advance the acquisition of Modern Standard Arabic for post beginner learners of the language. While consolidating language skills, students will also develop further knowledge of the Arab culture. A range of DELL (Digitally Enhanced Language Learning) activities are utilised as part of the blended learning mode of delivery for this unit. NOTE: Students enrolling in this unit as part of a major or sub major in Arabic must enrol in Arabic 202 at the same time. Students with a background of study in the language may need to take higher level units. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher class. Students should consult the Languages Academic Course Advisor or Unit Coordinator if they are unsure of their appropriate level.

102020.1 Arabic 202

Credit Points 10 **Level** 2

Assumed Knowledge

100042 Arabic 102 or equivalent knowledge

Equivalent Units

101699 - Language and Communication Skills 2A: Arabic

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This unit further develops students' language skills acquired in Arabic 201 to equip students with more sophisticated language skills and knowledge. It aims to extend learners' skills within a range of topics and to cover basic structural aspects of the language, at a post-beginner level. A range of DELL (Digitally Enhanced Language Learning) activities are utilised as part of the blended learning mode of delivery for this unit. NOTE: Students enrolling in this unit as part of a major or sub major in Arabic must enrol in Arabic 201 at the same time. Students with a background of study in the language may need to take higher level units. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher class. Students should consult the Languages Academic Course Advisor or Unit Coordinator if they are unsure of their appropriate level.

102021.1 Arabic 203

Credit Points 10 **Level** 2

Assumed Knowledge

Arabic 102 or equivalent knowledge

Equivalent Units

101704 - Language and Communication Skills 2B: Arabic

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This is one of the components of the Arabic major and sub-major. It assumes an intermediate level of competence in the language. It aims to extend (intermediate) learners' skills with a particular focus on listening, speaking and oral interaction in Arabic, in a range of situations, by exposing students to realistic interactions, including the Arabic-Australian community. The unit also aims to extend the learners' lexicon and structures, particularly those used in talking about current personal experiences as well as events, and popular Arab personalities. A range of DELL (Digitally Enhanced Language Learning) activities are utilised as part of the blended learning mode of delivery for this unit. NOTE: Students enrolling in this unit as part of a major or sub major in Arabic must enrol in Arabic 204 at the same time. Students with a background of study in the language may need to take higher level units. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher class. Students should consult the Languages Academic Course Advisor or Unit Coordinator if they are unsure of their appropriate level.

102022.1 Arabic 204

Credit Points 10 **Level** 2

Assumed Knowledge

Arabic 201/202 or equivalent knowledge

Equivalent Units

101704 - Language and Communication Skills 2B: Arabic

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This is an intermediate unit in the Arabic major or sub-major. It provides an extension and consolidation of reading comprehension, and writing skills, as well as lexical enrichment in Modern Standard Arabic, particularly its range of written registers and their linguistic characteristics. The content for reading and writing activities will be selected from newspapers, magazines, short stories and other printed media. NOTE: Students enrolling in this unit as part of a major or sub-major in Arabic must enrol in Arabic 203 at the same time. Students with a background of study in the language may need to take higher level units. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher class. Students should consult the Languages Academic Course Advisor or Unit Coordinator if they are unsure of their appropriate level.

101949.2 Arabic 301

Credit Points 10 **Level** 3

Assumed Knowledge

All level 2 Arabic units or equivalent knowledge.

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This is the first of a series of two units that aim to provide a thorough review of comprehension, speaking, reading and writing skills, as well as grammar and vocabulary of Modern Standard Arabic, its range of registers and its linguistic characteristics. This unit is intended for students who have knowledge and skills in Arabic equivalent to two years of tertiary education in the language and who wish to consolidate, develop and improve these skills. A range of DELL (Digitally Enhanced Language Learning) Activities are utilised as part of the Blended Learning mode of delivery for this unit.

100048.2 Arabic 302 - Arabic Advanced Language and Grammar

Credit Points 10 **Level** 3

Assumed Knowledge

Arabic 301 or equivalent

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This is the second of a series of two units that aim to provide a thorough and more advanced review of comprehension, speaking, reading and writing skills, as well as grammar and vocabulary of modern Standard Arabic, its range of registers and its linguistic characteristics. This unit is intended for students who have knowledge and skills in Arabic equivalent to Arabic 301 and who wish to consolidate, develop and improve these skills. This unit is mandatory for students who wish to pursue a specialisation in Arabic.

100049.2 Arabic 303: Advanced Writing Skills

Credit Points 10 **Level** 3

Assumed Knowledge

Assumed knowledge: Arabic 204 or equivalent knowledge.

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This unit is aimed at those who have successfully finished 100044 - Arabic 202, or have an advanced speaking and writing proficiency in Modern Standard Arabic. It is one of the obligatory units for students intending to graduate with Arabic as a major or sub-major. It seeks to develop the writing skills to prepare students to make professional use of the language, and it is particularly recommended for those who wish to involve themselves in areas such as language teaching and translation. Students will be introduced to a full range of text types and language purposes. They will be guided to analyse, interpret and evaluate passages provided, and will be encouraged to extend their ability by experimenting with a variety of writing styles.

100050.2 Arabic 304: Arabic Advanced Speaking

Credit Points 10 **Level** 3

Assumed Knowledge

Arabic 204 or equivalent knowledge

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This is an advanced Arabic unit for students undertaking a major in Arabic or the Bachelor of Arts (Interpreting & Translation) (Arabic stream). As a companion unit of Arabic 303 (Advanced Writing Skills), it aims at preparing students to make a professional use of the language, in this case by placing particular emphasis on oral skills, and it is also specially recommended for those wishing to pursue careers in areas such as language teaching, interpreting and translation. Students will be introduced to a full range of oral text types and language purposes. They will be guided to analyse, interpret and evaluate examples of oral discourse, and be encouraged to develop effective public speaking skills.

100052.2 Arabic 306: Arabic Novel and Short Story

Credit Points 10 **Level** 3

Assumed Knowledge

Arabic 204 or equivalent

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This is an optional unit in the Arabic major program, which aims to introduce students to the study of the Arabic novel and short story, and which examines the historical, political, social and cultural context that this literature reflects. This will be done by studying selected novels and short stories. Students will be able to do a research component on a novel of their choice. This unit will also examine children's literature, including traditional children stories and contemporary Arabic literature, as well as translated western traditional stories.

100054.2 Arabic 308: Language Past and Present

Credit Points 10 **Level** 3

Assumed Knowledge

Assumed knowledge Arabic 204 or equivalent knowledge

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This unit aims to give students an understanding of the phonological, morpho-syntactic, semantic and pragmatic changes that have occurred to the Arabic language both spoken and written in the last century. Particular attention will be paid to the different dialects spoken in some of the Arab countries and their relation to Modern Standard Arabic. A special study will be made of the Australian Arabic used by migrant communities.

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, politics and communities of Asia and how they have related to each other and the world beyond.

100958.2 Australia and the World

Credit Points 10 **Level** 1

Equivalent Units

700130 - Australia and the World (WSTC), 102738 - Australian Politics and Active Citizenship, 700294 - Australian Politics and Active Citizenship (WSTC)

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In 2020 this unit replaced by 102738 - Australian Politics and Active Citizenship. An appreciation of Australia's history, political structures and relationships with the world is essential for an informed graduate. The unit introduces students to the patterns of human settlement of the continent before and after 1788 beginning with the distinctive culture of the indigenous people of Australia. From an understanding of a worldwide process of colonisation, the origins of Australia's social and political systems are described through Australia's development as part of British colonisation and decolonisation. The unit explores Australia's engagement with Asia and its historical and contemporary relations with Japan, China, Indonesia, the United States, Great Britain, New Zealand and the Pacific.

102004.1 Australian Colonial History

Credit Points 10 **Level** 3

Equivalent Units

100868 - Foundations of Modern Australia, 100986 - Australian History 1860-1920.

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit introduces students to the 18th and 19th century foundations of modern Australia, and to the social, economic, political and cultural events that shaped Australian history. Students will be encouraged to consider the process of historical change within an historiographical framework and will use primary sources to explore some of these debates. Some of the themes explored will be colonisation, convictism, class, urbanisation, gender, land, indigenous society, culture and political developments leading to the federation of the Australian colonies in 1901.

102516.1 Australian History Around Us

Credit Points 10 **Level** 3

Equivalent Units

100254 - Exploring Local History

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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Historians are detectives, searching for clues and unravelling the puzzles of the past. A walk down your local street holds many clues about the history of a local area – from the name of the street, the architecture of the buildings, the trees planted by the road, even the new building that indicates a recent change. Local studies are used as the foundation for socio-economic studies across many disciplines while an understanding of local history contributes to establishing personal and community identities. In this unit students will learn research skills to uncover the lives of people from the past, re-imagine familiar places and consider events long forgotten that happened in the streets of their suburbs. The final assignment is a chance to turn these discoveries into a new history for their community.

101872.1 Australian Indigenous History from Federation to Reconciliation

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit aims to explore the history of the relationship between Indigenous and non-Indigenous Australians from Federation (1901) to the present. At the beginning of the twentieth century, Australia became a nation without paying much attention to the first Australians. It was widely

assumed that they would die out or at least remain an insignificant welfare problem. Instead, these first Australians survived and grew as a minority population; they also increasingly made themselves heard as a people - so successfully that in 2008 the Parliament of Australia felt obliged formally to apologise for their years of mistreatment. This unit highlights two stories: the non-Indigenous transition from complacency to engagement, and the survival and increasing political effectiveness of the descendants of Australia's first peoples.

101919.1 Australian Indigenous History: From first contact to 'dying race'

Credit Points 10 **Level** 3

Equivalent Units

101685 - Australian Indigenous History

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

Until 1788, Australia was peopled by those who we now call Aborigines. Then Europeans arrived and began to spread across the continent, displacing and marginalising the Aborigines. This unit will tell the stories of that transformation, beginning with an account of the ideas and motivations of British authority in the late eighteenth century and concluding at the moment when six British colonies formed a federated nation. Topics to be covered will include: violence, humanitarianism, Christian missions, institutional authority. The course will emphasise and explain regional and temporal differences in the ways that Indigenous and non-Indigenous interacted. Students will study primary sources and learn to understand them in context.

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.

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.

101449.2 Bilingualism and Biculturalism

Credit Points 10 **Level** 3

Equivalent Units

A2014 - Bilingualism and Biculturalism

Bilingualism and biculturalism are important aspects of life in Australia: many Australian residents are, were, or could be, bilingual and/or bicultural. This unit aims to give students an understanding and appreciation of the most important facets and manifestations of bilingualism and

biculturalism, in the linguistic, cognitive, personal, societal and educational spheres, particularly with regard to the Australian context. It also aims to show students how this unit relates to broader studies in education, humanities, linguistics, and social sciences.

102525.1 Bilingualism and Education

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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.

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

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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.

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.

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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

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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.

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This unit involves an in-depth study of a philosophical text that has reshaped our understanding about the world we live in. The close reading and discussion will develop the students' capacity to read and think deeply about particular problems. Students will follow the text step by step, gaining insights as to why it has had such a lasting influence.

300836.2 Botany

Credit Points 10 **Level** 2

Assumed Knowledge

Basic knowledge of biology, chemistry and ecology.

Prerequisite

300802.1 Biodiversity

Equivalent Units

BI103A - Botany; 300328 - Botany

Special Requirements - Essential Equipment

Lab coat, enclosed footwear

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From microscopic algae to giant flowering angiosperms, this unit develops students knowledge and understanding of plants on earth. The unit covers the topics of plant anatomy and morphology, classification and systematics, and evolution. Students will examine the major groups of plants: green algae, bryophytes, lycophytes, monilophytes, gymnosperms and angiosperms. Laboratory and field work involves the study of common Australian plants and economically significant plants.

101684.5 Brain and Behaviour

Credit Points 10 **Level** 2

Equivalent Units

100931 - Neuroscience

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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

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Brand and Product Management focuses on the role brands and products play in the planning and execution of marketing strategies. Aspects of brand and product management include the building, implementation and maintenance of brands within a range of different contexts are covered in this unit. Students will develop a critical view of the inherent challenges firms encounter in creating and maintaining brands from a marketing perspective. This unit uses workshop sessions and online activities to create an interactive learning environment and bring the content to life.

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

Credit Points 10 **Level** 1

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The discipline of Sociology has witnessed a transformation reflecting significant changes in society and social life. This unit re-examines the sociological dimensions of a variety of social concerns, for example: environmental issues, global migration, health, religion, indigeneity, gender, ethnic conflict and sub-cultural groups and asks: In the 'brave new world' of contemporary society we need to re-evaluate the conventional sociological concern of social structure and inequality in the face of these broad social changes. This unit will examine the social transformations which characterise contemporary social life; in particular the pace of social change and the implications of social media. In exploring these social concerns the links are drawn between more recent theoretical constructs and the more traditional focus on national social structures and inequalities. The unit will place special emphasis on concepts such as risk, individualism and uncertainty.

101756.2 Bridging the Gap: Re-engaging Indigenous Learners

Credit Points 10 **Level** 3

Equivalent Units

101116 - Issues in Aboriginal Education

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit is available to all undergraduate students who have open electives. Bridging the Gap: Re-engaging Indigenous Australian Learners will provide students with knowledge and skills to develop teaching strategies that will bridge the education gaps existing for many Indigenous

Australian (Indigenous) learners. Students will gain knowledge of quality teaching frameworks to engage all learners and in particular Indigenous learners. The unit will also increase students' awareness of the complexities of the cultural inter-relationships between many Indigenous and non-Indigenous learners. The unit focuses on empowering students to effectively teach: Indigenous Australians; Indigenous studies in consultation with Indigenous communities; and assess as well as evaluate resources for use in teaching Indigenous studies.

102079.1 Britain in the Age of Botany Bay, 1760-1815

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

Special Requirements - Essential Equipment

All students will need access to a device capable of recording a 5-10 minute video and uploading it vUWS. All students will need access to software / apps to do record and (if they wish) edit this video.

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This unit introduces the social, economic, political and cultural forces that shaped the society from which the first white Australians came. It considers processes of historical change and uses primary sources to explore historical debates concerning these changes. Themes covered include social class; sex and gender; crime and punishment; industrial revolution, urbanisation, and public health; the public sphere; political life; war, militarisation, and empire. This unit places special emphasis on the use of digitised primary sources, training students in their use. It also requires an extended piece of original primary source-based historical research. The unit spans the period 1760-1815.

200896.3 Business Analysis Seminars

Credit Points 10 **Level** 4

Unit Enrolment Restrictions

Students must be enrolled in course 8083 Bachelor of Research Studies/Master of Research.

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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.

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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

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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.

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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.

102492.1 Catastrophe: The Environmental History of the Ancient and Modern World

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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In 2021 this unit replaced by unit 102835 - Catastrophe: The Environmental History of the Ancient world. This unit examines past human interactions with the environment with its primary focus on the ancient Mediterranean and Near East between 2000 BC to 600 AD. Case studies include Sumer, the lost civilisations of the Sahara, Egypt, Greece, Rome, the Maya and later European colonial empires. Students will assess, evaluate and synthesize data drawn from environmental history to analyse how the limits of natural resources constrain civilisations. The unit asks how catastrophic collapse of civilisations informs the sustainability of our own societies. Key topics will be soil fertility, deforestation, desertification, and climate change from ancient times to the Anthropocene.

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.

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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.

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

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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.

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This unit explores a wide range of fictional texts created for children, teenagers and young adults from folktales, fairytales and myths to contemporary examples. It focuses on the relationship between young people, the texts created for them and the cultures in which these texts are produced and read. The unit will examine a variety of genres and themes, for example, the experience of childhood as constructed by adult authors of children's texts; post-colonial children's literature; the emergence and development of distinctly Australian children's texts; the development of young adult; literature; the impact of new technologies on children's literature; and role of art in children's literature.

101265.3 Children's Culture

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit explores the concept of children's culture and the diversity of cultures to which children belong. The unit focuses on current debates about childhood and children's culture, including the rise of children's consumer culture. Students will gain insights into children's lives and culture by critically engaging with a variety of objects and institutions that are part of children's lives, for example, toys, videogames, children's television programs, films and books. The unit will also examine the role of adults in children's culture, including in marketing and advertising to children.

101626.5 Children's Literature: Image and Text

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit focuses on the interrelationships between image and text in children's literature. The unit examines both picture books and other image-based children's texts, including electronic texts and graphic novels. The unit will examine children's texts as cultural artefacts, theories of visual literacy and how image and text combine to create meaning. Students will have the opportunity to create their own picture book for their final project.

100056.2 Chinese 101

Credit Points 10 **Level** 1

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This unit is an introduction to the (Mandarin) Chinese language as well as aspects of Chinese culture which are necessary for language competency, using Pinyin and simplified characters. It is intended for students who are not from a Chinese-speaking background and who are at beginner level in all four skills -listening, speaking, reading and writing in Modern Standard Chinese. Components of this unit may be presented in English. Students with a background of study in the language need to obtain advice on their appropriate level of language study. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher class. Students should consult the Languages Academic Course Advisor or Unit Coordinator if they are unsure of their entry level.

100057.2 Chinese 102

Credit Points 10 **Level** 1

Assumed Knowledge

100056 Chinese 101 or equivalent knowledge

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This is a post-beginner level unit in (Mandarin) Chinese intended for those with knowledge of Chinese 101 or equivalent. This unit builds on the knowledge and skills developed in (Mandarin) Chinese 101 and aims to further develop listening, speaking, reading and writing skills in elementary Modern Standard Chinese. The unit includes a socio-cultural component which will examine some aspects of China and Chinese culture as well as the Chinese community in Australia. Students with a background of study in the language need to obtain advice on their appropriate level of language study. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a higher class. Students should consult the Languages Academic Course Advisor or Unit Coordinator if they are unsure of their entry level.

102024.1 Chinese 201

Credit Points 10 **Level** 2

Assumed Knowledge

Successful completion of 20 credit points of Chinese Language at Level 1 or equivalent.

Equivalent Units

101700 - Language and Communication Skills 2A: Chinese

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This is a post-beginner unit for intermediate level study of modern Chinese (Mandarin) language and its culture, suitable for Post HSC entry or an equivalent level. This unit is designed for students who take it as part of the Chinese major/sub-major or as an elective unit. It will further develop the Pinyin system and the four core skills (listening, speaking, reading and writing), with a particular focus on core vocabulary and fundamental structures, using approximately 500 simplified Chinese characters. Aspects of culture and language acquisition strategies are explored through research projects. Differentiated learning and assessment tasks and multimedia activities are utilised to cater to non-background and quasi-background learners. The unit is not suitable for background speakers (i.e., who have completed formal secondary education where Mandarin Chinese is used as an official language and also the language of instruction at the School). Note: Students enrolling in this unit as part of a major or sub major in Chinese are encouraged to enrol in Chinese 202 at the same time.

102025.1 Chinese 202

Credit Points 10 **Level** 2

Assumed Knowledge

Successful completion of 20 credit points of Chinese Language at Level 1 or equivalent.

Equivalent Units

101700 - Language and Communication Skills 2A: Chinese

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This is a post-beginner unit for intermediate level study of modern Chinese (Mandarin) language and its culture suitable for Post 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

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.

102192.1 Cinema and Censorship

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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Censorship of the arts has long been a contentious issue. This unit examines the cultural contexts and debates surrounding censorship, as well as the institutions, policies, and people that figure prominently in the history of cinema censorship. Censorship discourses reveal shifts in how 'national morality' is constructed, and often display cultural anxieties about changing meanings of gender, sexuality, race, and class. This unit offers an historical survey of film censorship from the 1890s to today, utilising various theoretical approaches (feminist theory, critical race theory, queer theory, and cultural theory), with an emphasis on topics such as obscenity, pornography, violence, and blasphemy.

101984.1 Cinema and Experience

Credit Points 10 **Level** 3

Equivalent Units

63062 - Film, Genre and Affect, 100256 - Film and Affect

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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Film Studies and Literary Studies share some common theoretical foundations and analytical methods. However, considered in its cultural contexts, the question of how a film is experienced by spectators becomes critical. Films engage spectators in an embodied and affective way. The unit will argue that we cannot understand how a film takes up thematic and cultural questions without exploring the dynamics of spectatorship. This unit will explore some key approaches to film spectatorship and will look at how cinematic techniques shape narrative, genre, character, and thematic and cultural questions into embodied and affective experience.

101589.3 Cities: Introduction to Urban Studies

Credit Points 10 **Level** 1

Equivalent Units

101342 - The Urban Context

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This unit is a keystone in the Geography and Urban Studies major. It aims to introduce students to the major urban challenges that will shape our society in the future and to the major substantive concerns in the field of urban management and planning. It will develop students' understanding of how their own urban experiences are shaped by broader historical, cultural, economic, and social forces, and will enable students to compare the Australian urban context and issues with those in other world regions.

101968.1 Civil Society in Contemporary China

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

.....

This unit is intended to give students an understanding of the social development of the People's Republic of China (PRC). It will engage with some of the key concepts that scholars have utilised to understand social changes. In this vein, the unit will consider China's socio-political transformation from a civil society perspective. It will consider a range of stakeholders - from non-governmental organisations to trade associations - and examine the events that have contributed to the development of China's civil society.

102420.1 Classics of Modern Philosophy

Credit Points 10 **Level** 3

Equivalent Units

100852 - Classics of Modern Philosophy

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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Classics of Modern Philosophy introduces students to a selected number of 'great' (highly influential) philosophical texts from the seventeenth up to the twentieth century. Addressing fundamental issues such as human freedom, the nature of truth and knowledge, technological progress, problems of modern life, this unit guides students through key statements with supporting explanation of the philosophers, their projects and careers, and relevant social contexts.

101870.1 Climate Change and Culture

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit introduces climate change as a complex social, cultural and political phenomenon, one that is re-shaping the way we live in the world and future lifestyles. Because

climate change is highly contested, the course critically examines the issue from different theoretical, disciplinary, social and cultural perspectives. Topics range from cultural theory and forms of social action to the history and construction of climate change as concepts and debates around nature, culture, science, economics and consumption; to social justice, Indigenous knowledge systems, popular culture, the media and Australian politics, global governance, cities and urban planning.

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.

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.

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

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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.

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

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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.

102003.1 Comparative Nationalism

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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Nationalism, an ideology considered by many to have passed its peak, now dominates world politics and permeates political discourse. This phenomenon is crucial to understanding Trump's America First campaign, the problems affecting the EU and secession, the tensions and conflicts that are garbed in a religious rhetorical veil, and which constitute much of the agenda of today's "war on terror." What is nationalism? What is national identity? What are the main forms of its articulation in history and in the present, across geographical borders, class boundaries, gender and generational cleavages? This unit will survey the major theories of nationalism, and examine diverse examples of historical and contemporary nationalisms, predominantly within the European context. This is an upper level unit whose readings draw on a variety of approaches and examples and aim at providing a solid introduction to the scholarly literature.

102509.2 Computational Thinking across the STEM Curriculum

Credit Points 10 **Level** 7

Assumed Knowledge

An understanding of at least one STEM (science, technology, engineering or mathematics) school syllabus.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit will enable students to develop knowledge of computational thinking as it can be applied across the STEM curriculum in schools. Students will learn about the

nature of computational thinking as a problem solving approach which can be applied to produce digital solutions. The unit will allow students to undertake a critical examination of innovative, interdisciplinary approaches to the development of computational thinking and relevant pedagogical strategies to maximise student learning and engagement with STEM disciplines.

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.

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.

900028.3 Computer Studies (WSTC)

Credit Points 10 **Level** Z

Assumed Knowledge

This unit is only available to UWSCollege students enrolled in Foundation Studies.

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.

200084.2 Consumer Behaviour

Credit Points 10 **Level** 1

Equivalent Units

61721 - Consumer Behaviour, MK105A - Buyer Behaviour, 700027 Consumer Behaviour

A focus on the consumer is critical in marketing philosophy. Effective marketing strategies are necessarily formulated as a result of the understanding of basic consumer behaviour. The aim of the unit Consumer Behaviour is to introduce students to consumer behaviour as a critical component in marketing philosophy, and fundamental to the development of effective marketing strategies. This unit applies concepts, theories and models derived from disciplines such as sociology, anthropology, psychology, economics, and mass communications theory to a consumer context. Students will learn to apply such concepts, theories and models through a range of individual and collaborative means using a blended learning design that draws on current and future consumer trends in various marketplaces.

102413.1 Consumer Culture

Credit Points 10 **Level** 3

Equivalent Units

100994 - Consumer Culture

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course

Consumption and consumerism are words that frequently have negative connotations in popular usage, yet globally, rates of consumption and consumerism continue to grow. This unit presents cultural research that investigates the range of consequences - positive, negative or otherwise - that the rise of consumer culture has brought to contemporary global societies. Students analyse a range of cultural products and practices, and consider topics including the ethics of consumption, the role of consumption in forming identities, how consumer culture relates to class, gender, race and ethnicity, the rise of brands, and consumer culture in the digital age.

300928.2 Consumer Issues in Nutrition

Credit Points 10 **Level** 3

Assumed Knowledge

An understanding of human nutrition and health. Computer literacy.

Equivalent Units

300360 - Consumer Issues in Nutrition

This unit explores current food and nutrition issues. It introduces students to the factors that influence public health nutrition and explores (a) the contribution food systems and food security makes to consumer wellbeing; (b) the changing global marketplace and the impact of globalisation on food security and ecological sustainability; and (c) the complex inter-connections between government policy, globalisation, consumerism and human health. Students will assess nutritional status from available data and explore the role of community food systems. Students will also be introduced to social research methods and plan a social research study to address a nutrition related issue.

201099.1 Consumers, Firms and Markets

Credit Points 10 **Level** 1

Equivalent Units

700249 - Consumers, Firms and Markets (WSTC), 200922 - Consumers, Firms and Markets

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This unit is an introduction to microeconomics. It provides students with an understanding of basic concepts such as value, rational consumer behaviour, the behaviour of firms in various market structures, the efficiency and failings of markets, the distribution of wealth and income, and the role of government regulation and intervention. It illuminates these concepts by considering and debating their application to contemporary economic and social issues such as: the influence of marketing on consumer choices, the concentration of market power in Australian industries, rising income and wealth inequality, minimum wage laws, and governmental responses to environmental problems and climate change.

102048.1 Contemporary Childhoods

Credit Points 10 **Level** 2

Equivalent Units

101649 - Contemporary Perspectives of Childhoods, 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 how 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.

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.

100960.2 Contemporary Society

Credit Points 10 **Level** 1

Equivalent Units

700132 - Contemporary Society (WSTC), 102736 - Diversity, Language and Culture, 700292 - Diversity, Language and Culture (WSTC)

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In 2020 this unit replaced by 102736 - Diversity, Language and Culture. The unit introduces to students the socio-political organisation and cultural forms of the contemporary world focused on the production and structure of social relations, building on students' social and cultural experience. The unit will focus on the production and operation of social inequalities specifically gender, race/ethnicity and class and draw on key sociological and cultural studies approaches highlighting the role of culture and language in the production and maintenance of social inequalities with an emphasis on bilingualism and biculturalism in the consideration of race/ethnicity in contemporary Australia.

101751.2 Contextualising Indigenous Australia (Day Mode)

Credit Points 10 **Level** 1

Equivalent Units

300455 - Indigenous Australia: Back to the Future

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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.

401178.1 Controversies in Epidemiology

Credit Points 10 **Level** 7

Prerequisite

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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit offers students an opportunity to synthesise theories and methodologies from epidemiology. It highlights current controversies and practices in epidemiology. Students attend weekly presentations on topics related to content area interests, and other relevant seminars. Students will convene with faculty to reflect on and critique components of research presentations relevant to the students' interest and to the contemporaneous topics being covered in the core epidemiology curriculum. Course assignments involve critical appraisal of conceptual and methodological issues presented in the seminars, and related issues relevant to student's own research.

101799.2 Convicts and Settlers - Australian History 1788 - 1840

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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In little more than half a century Australia was transformed from a convict prison to a parliamentary democracy. The people who made this transformation were the ex-convicts, free settlers and first generation of colonial born children. The survival of data about ordinary people between 1788-1840 makes it possible to investigate families, communities, employment, law and order and the daily experiences of urban and frontier life in these formative years. Using family history resources on the internet and sophisticated digital archives of historical records in Australia and overseas, this unit will challenge assumptions about "who do you think we were?"

102853.1 Cool Green Cities

Credit Points 10 **Level** 7

Equivalent Units

102698 - Green Urbanscapes: Bio-physical Functions and Services

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Climate change, urban expansion and densification result in hotter microclimates and loss of green infrastructure. The increasing frequency and severity of heatwaves, floods and droughts require changes to how we design and retrofit existing neighbourhoods and build new suburbs. Contemporary urban planning and design principles recognise blue and green infrastructure as a 'must have'. Blue and green infrastructure is key to building cool and resilient cities capable of functioning well within the social, environmental and economic challenges of the 21st century. This unit provides knowledge about what it takes to deliver cool green cities. Focusing on practical applications at precinct or suburb scale, it enables students to implement learned principles in their professional practice.

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

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Students will learn and apply Cost Benefit Analysis, the most commonly used economic tool in business, consultancy and government organisations. The unit is a core unit in the Economics major but is open to all students who have a basic understanding of economics and a desire to improve their analytical skills and employability. At the completion of the unit, students will be able to explain the economic foundations of cost-benefit analysis and they will have experience with analysing, critically evaluating and developing a cost-benefit analysis for a specific proposal. Students will also consider risk analysis and cost-effectiveness analysis.

200862.1 Creating Change and Innovation

Credit Points 10 **Level** 3

Equivalent Units

200570 Management of Change, H3741 Management of Change

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This unit introduces the concepts of change and innovation as they relate to organisational transformation. It explores change as a human and social process, looking at the vital roles of leadership, entrepreneurship, and creativity in change management. In doing so, it provides the

theoretical and practical understandings that you will need as both a student of change and a future manager.

100856.4 Creative Non-Fiction

Credit Points 10 **Level** 3

Assumed Knowledge

A good standard of written expression

Equivalent Units

CT209A - Texts and Techniques

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit provides students with an advanced understanding of the issues, processes and practical questions involved in the writing of creative non-fiction. It is intended that students will gain both enhanced theoretical knowledge of writing practices and, through workshop participation and practical exercises, develop both their own writing skills and the ability to critique the writing of others on the basis of sound understanding of the characteristics of the genre.

100859.3 Creative Writing Project

Credit Points 10 **Level** 3

Assumed Knowledge

It is highly desirable that students should have successfully completed one of the following Level 2 units: 100896 - Writing Fiction, 100856 - Creative Non-Fiction or 101011 - Writing Poetry

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit extends students beyond the writing of individual stories and poems into larger areas of creative writing, such as the discontinuous narrative, the novella, and the cycle of related poems and/or stories. It involves students in the process of developing a major project from an initial set of ideas, through the stages of drafting to a "finished" product, using workshop techniques, individual interviews and peer critiquing. It aims to give each student some experience of a relationship with readers (fellow students) and an editor (the tutor).

102437.1 Creative Writing: Practical Skills and Knowledge

Credit Points 10 **Level** 1

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This is the second of two Level 1 foundation units in the Creative Writing Major. The unit focuses on developing students into writers by giving them the practical skills and theoretical knowledge needed to become published writers. Students will develop a body of original creative work while reflecting critically upon writing practice. The unit is built around participation in writing workshops, which emphasise improving your work via practical feedback from tutors and

peers. Themes covered include writing the personal, writing about place, experimentation, specificity, originality, voice and starting a career in writing. No previous creative writing experience is necessary.

102436.2 Creative Writing: The Imaginative Life

Credit Points 10 **Level** 1

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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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From 1H 2022 this unit replaced by 800237 Creativity, Design Thinking and Visualisation. 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.

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.

102710.1 Crime, Media, Culture

Credit Points 10 **Level** 3

Assumed Knowledge

A basic understanding of foundational criminological theory.

Equivalent Units

101562 - Culture and Crime

Unit Enrolment Restrictions

Successful completion of 80 credit points

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There is a close relationship between representations of crime in mass and social media, and policy and legal responses to crime. Media consumers are producing and circulating content about crime and criminality through new media technologies, and some are using social media and the internet to engage in new forms of criminality. In this unit, we explore the complex role of mass media and 'new' media in debates over crime and crime control, and the facilitation of criminality by media technologies. This means studying contemporary media theory and its relevance for criminology, and the effects of social media and computing technology on representations and practices of criminality. The unit maintains a strong focus on the ways in which media and culture informs crime policy and criminal justice processes.

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.

101590.3 Cultural and Social Geographies

Credit Points 10 **Level** 2

Equivalent Units

700055 - Cultural and Social Geographies (UWSC)

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Examines the nexus between society, culture and place. Considers contemporary social and cultural planning issues including: local community relations, place management, place redefinitions, ethnic concentration, cultural precincts, and the spatial politics of gender and sexuality. The roles of cultural products in carrying spatial information and reinforcing identity are examined. Introduction to cultural and social geography, and developments in cognate fields of cultural studies and anthropology. Key theories of identity. Case studies range across ethnicity, religion, age, gender, sexuality, class and nationalism. The analysis and assessment advances an appreciation of social and cultural difference and social justice.

101967.1 Cultural History of Books and Reading

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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This unit examines the development of the book as a material and cultural object, and the evolution of cultures of reading from codex and clay tablet to digital book and e-Reader. Exploring the historical and technical change taking the book from singular object (painstakingly copied by hand and read by a learned elite) to 'book' as notional object (deliverable 'content', in a range of formats, to readers on demand), this unit focuses on moments of contestation and crisis in reading, writing and print culture: copyright and the role of authorship, censorship, the plundering of libraries, and that most radical proscription, book-burning.

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

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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.

102185.1 Culture, Discourse and Meaning

Credit Points 10 **Level** 3

Incompatible Units

101408 - Critical Discourse Analysis

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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In Culture, Discourse and Meaning students explore our culture by looking closely at how we make and share meaning. You look at how power operates by supporting and promoting some ideas and ways of life but not others. In Culture, Discourse and Meaning you also consider how students might change our culture. In your work in the unit, you will develop analytical, interpretive, and critical skills for

culture analysis. Through project-based work, students will develop the capacity to analyse and critique the production and operations of power and consider changes in cultural practice.

102479.1 Cultures of Crime and Punishment

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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The focus of this unit is on the ways in which crime and punishment are defined and practiced in a range of different cultures, and how different countries' social customs and cultural values influence the evolution of their understanding of, and response to, criminal behaviour. Drawing on both theoretical frameworks and practical examples, the unit will provide students with an opportunity to work in a collaborative learning environment, working with both instructors and other students to undertake and communicate research logically.

102529.2 Cyber Justice (UG)

Credit Points 10 **Level** 3

Assumed Knowledge

Successful completion of second-year subjects in cultural and society, history and political thought, law, psychology or criminology would be useful, but are not required.

Experience of using social media would also be useful but not required.

Incompatible Units

201018 - Cyber Law and Justice

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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The world is being transformed by digital technologies. The same technologies that make life more comfortable for some can unleash violence and destruction for others. Cyber war and cyber terrorism offer new risks for the international community. Bullying, identity theft and bank fraud, on a more local level, are given a new life in the cyber world. Cyber technologies also provide enhanced opportunities for detecting and apprehending criminals, resolving disputes and modernising justice processes. New social spaces are opened up (social media networks, the 'dark web'), and new identities made possible (online grooming profile, avatars). How does the law keep up with the emergence of new crimes and technology-enhanced versions of old ones, and how do the cultural worlds of hackers, crackers and trackers work? The subject examines how justice processes and spaces, as well as criminal networks and strategies, are being reimagined to take advantage of the new technologies.

401179.2 Data Management and Programming for Epidemiology

Credit Points 10 **Level** 7

Assumed Knowledge

High school mathematics (arithmetic, formulas and algebra, reading graphs). Basic computer competency and basic programming skills.

Corequisite

401077.1 Introduction to Biostatistics

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Home computer or laptop or access to a machine on which software can be installed. (Necessary for assignments). Software required includes Git (free, open-source, multi-platform) and R (free, open-source, multi-platform).

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Modern epidemiology deals with ever increasing volumes of data and complexity of analysis. This course is aimed at equipping students with effective practices for managing data and programme code and ensuring the security of their data. Students will be taught the fundamentals of managing code and data in a revision control system as well as good programming practices and techniques which can form a basis for a robust, repeatable and test-driven research methodology. Programming instruction and exercises will use the SAS and R languages, and SQL databases.

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.

100996.3 Death and Culture

Credit Points 10 **Level** 3

Equivalent Units

SS240A - Death and Culture, 100902 - Death and Culture

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit is a critical introduction to the social practices surrounding death in modernity. Although primarily addressing social arrangements in the West, the unit examines the bio-politics of death in a wider cultural framework, with attention to geographies of power and economic influence. The unit traces the historical development of concepts of the individual; the impact on Western ideas around death of genocide and modern warfare; and assesses contemporary ethical, social and medical controversies (like euthanasia and the trade in body parts). The unit attempts to demonstrate the relationship of death to: social institutions; ideas of community and the construction of self in modernity.

301015.3 Deep Foundations

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

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This unit covers advanced analysis and design criteria for deep foundations. Both statically and dynamically loaded deep foundations are covered including the site investigation methods and field testing methods adopted in practice for determining integrity and load carrying capacity. Appropriate computer software will be introduced to carry out the deep foundation design according to the Australian Standards.

100903.2 Democracy in Asia

Credit Points 10 **Level** 3

Equivalent Units

63033 - Democracy in Asia.

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit is concerned with the theory and practice of democracy in modern and contemporary history of Asia. It explores a range of issues relating to liberalism, human rights, political reform and democratization. It seeks to explain the differences in the ways in which democracy has been conceived, understood and practiced in different cultures and societies. It also examines the East-West debate on "Asian values" and the suitability of Western-style democracy to Asia. Finally, it discusses the prospects for democracy in Asia.

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.

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.

101682.8 Developmental Psychology

Credit Points 10 **Level** 3

Assumed Knowledge

Basic understanding of core concepts of personality, social and developmental psychology

Prerequisite

101184.4 Psychology: Human Behaviour

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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 individual wellbeing. Indigenous Australian knowledges and perspectives are integrated into the unit alongside an appreciation of the richness of diverse cultural contexts.

102188.1 Dictators, Democrats and Dreamers: Indonesia 1942 to now

Credit Points 10 **Level** 3

Incompatible Units

101972 - The History of Modern Indonesia

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit surveys the post-independence history of Indonesia, Australia's nearest and most important Asian neighbour. Commencing with the Japanese Occupation during World War II, it traces Indonesia's often turbulent contemporary history through dictatorship and poverty to democracy and prosperity, bringing the story up to the latest developments at the time of teaching. Students will study Indonesia's struggle for independence and then equally challenging struggle to build a new nation able to take its place in the world amidst serious economic problems and profound political differences. The unit is also concerned with the historiographical problems confronting students of Indonesian history.

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

Credit Points 10 **Level** 1

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The key and foundational focus of Social Anthropology is the relationship between people and their cultures. This unit provides an introduction to key concepts, methods and theories of classical and contemporary Social Anthropology. It will guide the students to an informed and critical understanding of the nature and extent of human diversity and differences, as well as the similarities which unite us as people. The unit has two parts. The first part introduces students to the history and scope of Social Anthropology

through selected work of some classical anthropologists, introducing key concepts and conceptual frameworks. The second part is designed around selected case studies of Indigenous Peoples in Australia, the Asia Pacific, and the Americas, providing the students with critical insight into the application of anthropological theory and the epistemological contribution of the discipline of Social Anthropology.

102410.2 Digital Cultures

Credit Points 10 **Level** 3

Equivalent Units

101980 - Culture, Society and Globalisation

Unit Enrolment Restrictions

Successful completion of 60 credit points in currently enrolled course.

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This is the compulsory Level 3 capstone unit for the Cultural and Society major and a compulsory unit in the Digital Cultures major. It gives students essential skills for researching and analysing contemporary cultural and social processes through a digital lens. Key topics include youth and digital culture, digital citizenship, racism and the digital, film and games, and digital work and economies. Through this unit, students gain an understanding of how digital technologies transform everyday practices, meanings and identities, create new opportunities and problems for addressing societal challenges and explore what it means to participate in a digital society, now and in the future.

101250.3 Digital Futures

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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This unit examines the role of digital technologies in contemporary cultural production, exploring the impact digital technologies have had on the design and construction of images, spaces and bodies in the late 20th and early 21st centuries. The unit traces the development of technologies from analogue, to electronic, to digital, and analyses key topics in media studies including the cyborg, virtual reality, artificial life and simulation. The unit contextualizes conceptual issues with reference to design, film, art and new media works.

102425.1 Digital Humanities and Research Methods (UG)

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 60 credit points at Level 1.

Special Requirements - Essential Equipment

Access to a laptop or tablet device to bring to class.

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This unit investigates the methodological possibilities of digital technologies for interdisciplinary humanities and

social sciences research. It covers several major digital research methods, exploring previous applications and examining their orientations and implications. Digital research methods and applications may include digitisation, online curation, visualisation, network analysis, geographical information systems, data mining and simulation. In the context of these, the unit will probe histories of technology and knowledge production, the evolution of digital texts and practices, and issues in contemporary culture such as digital design, gamification, virtual identity, and digital rights.

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.

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.

301111.3 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.

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.

102787.1 Doing Sociology

Credit Points 10 **Level** 1

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With a focus on what it is that sociologists 'do' and why, this unit considers how sociology contributes to a better understanding of everyday life. That is, to the routine engagements, interactions and practices that make up our individual and social worlds. Where we live, what we consume, how we feel and the meanings we give our work, leisure, environments and relationships will all be analysed with reference to academic and popular content. Serving as an introduction to the discipline of sociology and its various sub-fields and methods, 'Doing Sociology' places emphasis on how sociological knowledge can be applied. In this way, the unit provides students with the opportunity to consider what they might do with sociology; how a sociological perspective might help them better understand the social world and contribute in a meaningful way to resolving contemporary social issues.

200916.1 Economic and Financial Modelling

Credit Points 10 **Level** 3

Prerequisite

200032.5 Statistics for Business OR **200052.5** Introduction to Economic Methods

Equivalent Units

200053 - Economic Modelling

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Economic and Financial Modelling examines regression analysis and its use in business especially in economics, finance and accounting. Topics will include the properties of estimators, hypothesis testing, specification error, multicollinearity, dummy variables, heteroskedasticity, serial correlation. It also introduces other modelling techniques in finance and economics. Empirical assignments undertaken by the student form an integral part of the unit. The emphasis is on learning by doing in small group workshops.

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.

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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.

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This unit will provide students with exposure to problems with which economists and finance professionals are confronted in their daily work. They will learn about and examine the multi-dimensional nature of the issues addressed by economists and finance professionals in real-life. Students will need to consider the nature of the problems, propose solutions, as well as address how realistic the solutions they are proposing are. They will learn how to systematically reflect on their contribution to the industry or community setting with which they engage.

300856.2 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.

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.

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.

100860.3 Emotions, Culture and Community

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit examines forms of cultural expression and collective selfunderstanding articulated as emotional identifications. Topics covered may include shame, pride, responsibility, forgiveness, resentment, hope, disgust, generosity, happiness, hate and love. The unit explores how these have been taken up in contemporary cultural analysis as a focus for understanding affinities and conflicts between individuals and communities and for how Australians imagine their historical interconnectedness. It introduces some key theoretical perspectives that have been, and might be, applied to the study of emotions, culture and community.

100861.3 Empire: European Colonial Rule and its Subjects, 1750-1920

Credit Points 10 **Level** 2

Equivalent Units

63125 - The World Encircled 1100 - 1600

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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A historical investigation of the experience of the 19th century European empires from the perspectives of both the colonised and colonisers. It examines the combination of domination and cultural negotiation between colonisers and colonised. It examines both how peoples were managed as imperial subjects and how they responded to this management. It looks both at the effect of imperial rule on the colonised, and of empire upon the colonisers. It draws upon historical literature from a variety of sources and perspectives, and within European and Asian history. The focus is chiefly, though not exclusively, upon the British empire and its subject peoples.

102438.1 English as an International Language

Credit Points 10 **Level** 1

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English is the first Global Language and the most important international Lingua Franca today. The teaching of English as a second or foreign language is a huge industry internationally, and a driver of export dollars in the Australian economy. The teaching of English as an International Language (EIL) is a new area of study and it is indispensable for any student seeking to gain a competitive edge in an international career. This unit is a key introductory unit in the International English Major. It is designed to equip graduates with marketable skills across multiple areas, including International Relations, Marketing and Business, Interpreting and Translation, and TESOL.

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 2

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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.

102439.1 English Language Analysis

Credit Points 10 Level 2

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In this unit, students will develop a thorough understanding of the structure of English and the use of English across contexts. Students will study the workings of the English language, including its sounds, grammar, syntax and textual forms, through the analysis of diverse texts. The skills developed through the analysis of real-world texts throughout the unit will prepare students for effective participation in a range of personal and professional contexts, enhancing their capacity for study and for employment.

102476.1 English Language Linguistics

Credit Points 10 Level 3

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In 2021, this unit replaced by 102813 - English Talk. This unit offers students a formal study of the workings of the English language as it is used around the world. Using real-world examples, this unit builds on the content and skills which students have developed in the unit: English as an International Language. It prepares students with a thorough knowledge of variations in English across the globe, introducing them to the ways in which English varies at phonological, grammatical and register levels across contexts. This unit is essential for a student's development of more formal skills in the English language, developing their English knowledge and skill into a professional and personal asset.

102813.1 English Talk

Credit Points 10 Level 3

Equivalent Units

102476 - English Language Linguistics

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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

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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.

101974.1 Enlightenment and Revolution

Credit Points 10 Level 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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The Enlightenment and Age of Revolutions are pivotal moments in Western and global history and had lasting political and cultural repercussions. This module seeks to explore links between them and to place them in wider intellectual and cultural context. Particular focus will be placed upon the paradigmatic French revolution, but within a framework emphasising other revolutions of the period. Hence individual classes treat society and government in Europe; the moderate and radical strands of enlightenment; precursors to the French revolution in the Atlantic world; the public sphere; the French revolution and Terror; Revolutionary Imperialism and Napoleonic rule; the revolutionary legacy.

200614.3 Enterprise Industrial Relations

Credit Points 10 Level 2

Prerequisite

200300.2 Managing People at Work

Equivalent Units

61432 - Enterprise Industrial Relations

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Enterprise Industrial Relations builds participants' analytical and research abilities, developing capacity to identify, diagnose and engage with industrial relations challenges from different stakeholder perspectives. Participants work with real-world industrial relations, looking at individual

employees' workplace and labour market experiences; the goals and activities of managers; and the role and practices of tribunals, enforcement agencies, employer associations and trade unions. This is done through activities that require working collaboratively on problems using online research to investigate contemporary practice, such as the drivers behind enterprise agreements and the implications of institutional arrangements and trade unions for productivity, equity and human resource utilisation. It is a core unit for the human resource management undergraduate program.

200911.1 Enterprise Innovation and Markets

Credit Points 10 **Level** 1

Enterprise Innovation and Markets introduces students to key concepts, business models and issues surrounding contemporary business. Students will develop an understanding of the private enterprise system and business ownership, the implications of marketing and economics on market structure together with managing innovation. Building on the foundation knowledge of the key principles of markets, students will be able to transfer this knowledge into their subsequent study of specialist areas. The unit also aims to develop students' communication skills by working in teams to enhance their literacy proficiency and enhance their critical thinking in preparation for the more advanced units of the degree.

200909.2 Enterprise Law

Credit Points 10 **Level** 1

Equivalent Units

61511 - Introduction to Legal Principles, 200184 - Introduction to Business Law, 700004 - Introduction to Business Law (UWSC), 700079 - Introduction to Business Law (Creative Industries), 700254 - Enterprise Law (UWSC)

Unit Enrolment Restrictions

This unit is not to be taken as part of a Bachelor of Laws course attempt. External offerings are only available to students enrolled in a Property Major and to students enrolled in WSU Online Bachelor of Business. UEH offerings are only available to students enrolled in the Bachelor of Business or Bachelor of Business and Commerce, attending offshore on-campus, at the University of Economics, Ho Chi Minh City.

Special Requirements - Essential Equipment

Property students enrolled in the external offerings are required to have regular access to a computer with reliable internet.

This is an introductory law unit designed to introduce the fundamentals of law in a commercial context. The unit introduces students to the basic principles of law and the legal system as well as examining some of the major areas of law that impact on commercial dealings. This unit examines the legal system, the way law is made and the main areas of law relevant to starting and running a business including contracts, negligence and consumer protection.

200912.1 Enterprise Leadership

Credit Points 10 **Level** 1

Equivalent Units

200571 - Management Dynamics, 700252 - Enterprise Leadership (WSTC)

Incompatible Units

200879 - Introduction to Business Studies

Enterprise Leadership begins the development of the understanding of the role and function of business management and enterprise leadership concepts. Enterprise leaders need to balance a range of stakeholder perspectives in dynamic internal and external environments at local and global levels. Students are introduced to people, managerial and organisational processes designed to achieve enterprise leadership. Problem solving scenarios and experiential learning provide students with a foundation to develop personal and professional skills required to effectively manage their careers.

300821.2 Environment and Health

Credit Points 10 **Level** 1

Equivalent Units

300362 - Environment and Health, 300625 - Noise Assessment, 301271 - Environmental Issues and Solutions

This unit introduces students to the holistic and socio-ecological nature of human health and its linkages with the socio-cultural and physical environment, focussing specifically on environmental noise as a significant risk to both physical and mental health. Students are challenged to identify and reflect on the underlying causes of traditional and contemporary environmental health issues and to explore the changing nature of environmental health, its professional practice, associated policy and the changing roles and responsibilities in government, business and industry. The unit introduces a range of health promotion and community education models for the design and evaluation of environmental health interventions.

300857.1 Environmental Geochemistry

Credit Points 10 **Level** 3

Prerequisite

300808.1 Introductory Chemistry OR **300800.1** Essential Chemistry 1 AND **300803.1** Essential Chemistry 2

Equivalent Units

300614 - Environmental Geochemistry

Special Requirements - Essential Equipment

Safety glasses and laboratory coat, laboratory book, enclosed footwear

In 2019 this unit replaced by 301212 Science of the Anthropocene. The unit deals with how the lithosphere, hydrosphere, biosphere and atmosphere are interconnected through global biogeochemical processes.

Topics include the composition of ocean, ground and surface waters and their interactions with the atmosphere, rocks, soils, sediments and man-made pollutants; transfer of dissolved material between environments, and detection and control of toxic waste materials; environmental quality criteria, field sampling and modelling of selected environmental systems. These topics will be brought to life in a two-day field trip to Sunny Corner undertaken in the mid-session break.

50053.1 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

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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.

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.

300858.2 Environmental Risk Management

Credit Points 10 **Level** 3

Equivalent Units

300284 - Environment Risk Management; 300532 - Agriculture Risk

Unit Enrolment Restrictions

Successful completion of 120 credit points

Special Requirements - Essential Equipment

Enclosed footwear for field visit

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This unit examines the world of environmental risk management and will introduce students to environmental management systems including Environmental Impact Assessment and Environmental Auditing. The unit considers and examines the application of the precautionary principle in real world situations. Students will also be introduced to methods of quantitative risk assessment as applied to environmental and agricultural risks such as urban, peri-urban and rural growth; industrial and agricultural land use; contaminated land, and climate change.

300872.2 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.

401174.1 Epidemiology of Non-Communicable Diseases

Credit Points 10 **Level** 7

Corequisite

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

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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This unit will document the fundamental concepts in epidemiology and control of non-communicable diseases (NCDs), common research methods used in NCD epidemiology, and unique applications of these methods in key NCD areas, including reproductive epidemiology,

behavioural epidemiology, epidemiology of ageing and epidemiology of specific NCDs (including cardiovascular disease, diabetes, cancer, chronic respiratory diseases, musculoskeletal problems and mental health problems). The principal goals of this unit are to provide a broad overview of the field, and to develop the knowledge and skills needed to (i) critically evaluate published research in NCD epidemiology and (ii) design an epidemiological study to address an NCD topic.

300800.3 Essential Chemistry 1

Credit Points 10 **Level** 1

Assumed Knowledge

HSC Chemistry (2 unit) or HSC Multi-strand Science (3 or 4 unit) or equivalent. General Mathematics bands 5 and 6 or Mathematics band 4 or equivalent.

Equivalent Units

300224 - Chemistry 1, 300554 - Principles of Chemistry, 700121 Essential Chemistry 1

Special Requirements - Essential Equipment

Safety goggles, cloth laboratory coat, enclosed footwear.

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This unit provides an introduction to some of the essential knowledge, concepts and skills of chemistry, to serve the needs of students majoring in chemistry and those requiring a working knowledge of chemistry. Observable chemical facts and phenomena including structure, dynamics, and energetics, are explained in terms of current mathematical and visual models and further developed in Essential Chemistry 2. Evidence for chemical understanding is provided using IR spectroscopy, mass spectrometry, and computer molecular modelling. Laboratory skills relate theory to practice through the development of practical skills required to determine the concentration of an analyte using volumetric and spectrophotometric analysis.

700121.4 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.

.....

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.

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.

102250.3 Ethical Leadership

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Students must have successfully completed 40 credit points of study in their course with a minimum GPA of 5.0 to enrol in this unit. Students who are enrolled in the Bachelor of Creative Leadership (BCL) must enrol in the unit under the BCL. Enrolment in the unit for students enrolled in the BCL is at the discretion of the Academy or the Director of Academic Program.

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This unit focuses on major ethical theories, challenges, and concepts in a cross disciplinary environment. Students' knowledge and understanding of ethics will be further developed through interdisciplinary lenses on critical ethical thinking and decision-making. Students will be required to analyse ethical frameworks and systemic failure to discuss and reflect on various cross disciplinary challenges in diverse settings. By applying ethical concepts to personal journeys as citizen scholars and future professionals, students will develop their own ethical framework and gain skills required for future success as emergent leaders.

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.

101915.1 Ethics and Philosophy

Credit Points 10 **Level** 1

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This unit introduces students to ethical enquiry - the ways in which we explain what is right and wrong behaviour, perceive good and evil, and try to deal with the different values people hold. Philosophy has long traditions of debating ethical matters, and offers perspectives for trying to answer our ethical questions: this unit introduces the most important and established of those fundamental perspectives, and explains how they arose in their social and historical contexts. The philosophical material will be also be explored through practical examples and questions from contemporary life, in order to enable students to consider ethics today and the sorts of issues they might face.

102007.1 Ethics in Historical Perspective

Credit Points 10 **Level** 3

Equivalent Units

100863 - Ethical Cultures

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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The unit provides an historical overview of the different types of ethical beliefs and practices that have been used in specific social settings from the classical world to the modern West. It looks at different types of spiritual and secular ethical behaviours, and the doctrines associated with each. It focuses upon the types of ethical argument and judgment-making specific to particular professions, occupations and social statuses over time. It concludes by surveying the different types of ethics taught to

professionals today in the West, and on the differences between each, as well as the specific requirements of each. It will be of interest both to students with an interest in the history of ideas, and to students who want to learn more about ethics and moral decision-making.

102346.2 Ethnographies of Southeast Asia and the Pacific

Credit Points 10 **Level** 2

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This unit will introduce students to ethnographic field study through a close examination of the anthropology of two regions with which Australia is geographically and politically aligned; the Pacific Islands and South-east Asia. Drawing upon classic and contemporary ethnography the unit will provide opportunities for comparative and trans-historical studies of how cultures in these regions have been constructed and changed in relation to larger global dynamics. It will also provide an insight into the ways in which anthropological theory is developed in the context of attempts to explain and interpret cultural difference. Key topics of study, explored through case studies, will include the colonial experience, traditions and modernities, nations and nationalism, transnationalism, religion, social conflict, and material cultures. The unit will include ethnographic films.

100897.2 Everyday Life

Credit Points 10 **Level** 1

Equivalent Units

63234 - Introduction to Cultural Studies, 700135 - Everyday Life (WSTC)

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In 2022, this unit replaced by 102913 - Introduction to Culture and Society. This unit introduces students to key themes and issues in the study of everyday life. It draws on different disciplinary areas - especially anthropology, sociology and cultural studies - and different theoretical and methodological perspectives to examine the ways cultural practices and meanings are used to shape human identities and societies in everyday life. It will focus on rituals and routines in the different spaces of everyday life, and the ways these contribute to the production of local worlds and the key cultural categories that give meaning to these worlds. It will include a focus on how we research everyday life.

300935.3 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.

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Evidence and Crime Scene Management is a unit designed to provide students with an understanding and knowledge of critical principles associated with the management of evidence and sites considered as crime scenes. The unit is particularly designed for students wishing to enter professional domains involving; policing, nursing, animal welfare, workplace investigators, health inspectors, WHS officers, fire investigation, council and park rangers, social welfare, environmental protection, fraud and insurance investigation and others where the collection of evidence is a component of professional practice within the discipline. The unit covers topics such as; recognition of various evidence, the recording and documentation of evidence, crime scene or site photography, managing scenes, maintaining evidence integrity, sexual assault evidence, the reporting and presentation of evidence in court and others.

401168.1 Evidence Based Health Care

Credit Points 10 **Level** 7

Assumed Knowledge

A basic knowledge of research methods at undergraduate level plus basic nursing knowledge and clinical nursing experience.

Equivalent Units

400206 Evidence Based Nursing

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

Special Requirements - Essential Equipment

Access to the internet and computer.

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

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.

101874.3 Experiential Learning in Communities (ELC)

Credit Points 10 **Level** 2

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Experiential Learning in Communities (ELC) is a unit in which students come to understand the value of service learning within the university student community as part of the Equity Buddies Support Network. As this unit explores a service learning approach to teaching and learning it includes a participation component which comprises a combination of lectures, tutorials, debriefing group meetings and peer mentoring partnerships. Enrolment in ELC is open to first, second and third year students. Students will develop skills in pedagogy and practice within the unit through supporting fellow students' learning experiences and transition to university. The unit develops students' understandings about communities of practice, peer learning, interpersonal and intercultural communication, meta-cognition, reflection and the reflection process, and academic literacy.

100013.5 Experimental Design and Analysis

Credit Points 10 **Level** 2

Prerequisite

101190.4 Introduction to Research Methods

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. Research design and methodology and ethical issues, statistical concepts and techniques, computer analysis of data, and communicating research findings are all features of this unit, which build on the content in its prerequisite.

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 NOTE: Co-Requisite units removed from Spring 2021

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 NOTE: Co-Requisite units removed from Spring 2021

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

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Experimental Writing and Electronic Publication is a practical and experiential exploration of modernist writing practices. Students will be introduced to a range of innovative writing techniques designed to stimulate creative thinking and assist in the development of a regular writing practice. Areas of study include: exploration of pre-writing processes; experimental writing genres; power of language; evaluative process; and the development of individual and collaborative techniques for planning and executing writing projects. A primary component of this unit includes working on writing exercises both at home and in class. These exercises will be used to develop the end-of-unit major project.

100254.3 Exploring Local History

Credit Points 10 **Level** 3

Equivalent Units

63153 - Exploring the History of Western Sydney

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

From 2017 this unit replaced by 102516 - Australian History Around Us. Understanding local history is an integral part of establishing personal and community identities. Local studies are used as the foundation for many socio-economic studies across various disciplines as well as in school curricula. The University of Western Sydney is part of a region rich in history, little of which has been researched or published. Local history techniques involve understanding a variety of physical and documentary sources. Students learn the history of the Sydney region by assembling data from original historical sources, based at the Archives in Kingswood and Villawood and from on-line data repositories. There are opportunities for site visits to historical and archaeological sites and local museums.

200589.3 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

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Australia's export opportunities have yet to be fully realised. In other words, of all the firms that could be considered as having an export potential, only a very small percentage of them actually do (export). This unit teaches students about the management perspectives and the operational requirements needed for a successful export initiative. Specific topics include strategic intent, capability assessment, information gathering, export entry models evaluation, market mix factors, risk management, export finance, logistics and sales management. The overriding aim of the unit is to enable students to be confident in working in an international business environment and to seek out and undertake management and operational tasks necessary to the global development of the firm.

102143.2 Families and Intimate Life

Credit Points 10 **Level** 2

Equivalent Units

400510 - Sociology of the Family, 101609 - Comparative Studies of Families and Kinship

Unit Enrolment Restrictions

Successful completion of 40 credit points

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This unit will critically examine sociological perspectives on families and intimate life, building on the approaches and theories introduced in the first year of Sociology studies. The familiarity of families and intimate relationships will be thrown into question. Students will be asked to examine their beliefs, unpack myths of the 'naturalness' of family, and question the 'personal'. Families and intimate relationships will be viewed as part of the wider social structure, their constitutions shaped by culture, economies,

social policy, technology and globalisation. The unit will demonstrate the historical and cultural specificity of the nuclear family and its role in the creation and reproduction of social inequality and social difference.

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.

.....

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.

100866.3 Film and Drama

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit offers a survey of one or more of the following: drama, drama on film and film drama. It will examine key concepts in cinema theory, dramatic form and film production. Comparison may be made between theatre texts and film adaptations related to the work of specific dramatists; or drama texts may be considered in themselves (often with the screening of filmed versions of these dramas). Alternatively, film itself will be considered as a distinct dramatic form whose contours will be traced in relation to the work of important directors. Viewing films will form an integral part of this unit and students will be expected to attend screenings of films as well as a lecture and tutorial.

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.

.....

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.

102916.1 First Peoples and Criminal Justice

Credit Points 10 **Level** 2

Equivalent Units

102712 - First Peoples and Criminal Justice

Incompatible Units

400195 - Human Rights, Human Services and the Law

Unit Enrolment Restrictions

Successful completion of 40 credit points.

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How does colonialism underscore the foundational narratives, knowledges and operation of the legal and criminal justice institutions of colonised nations? Focusing primarily on the Australian context of colonial invasion and settlement, this unit explores the plight of Indigenous peoples and their severe over-representation in the Australian criminal justice system. Studying the impact of colonisation and exploring Indigenous narratives, students will critically examine issues faced by Aboriginal and/or Torres Strait Islander people and their experience of criminal justice in Australia. Overall, the unit will equip students with an understanding of the relationship between dominant colonial narratives of race and institutional racism, while considering how Indigenous knowledge can inform better social and criminal justice outcomes for Indigenous populations. Comparative examples of criminal (in)justice for Indigenous populations in other colonised nations will also be considered.

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.

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.

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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.

102305.1 Food: A Cultural History

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points in the currently enrolled course.

.....

The modern world seems obsessed by food. This unit will look at the historical development of sources of food, from archaeological evidence of the earliest human meals through the emergence of agriculture and its scientific modifications to the physical and cultural evidence of technological changes in methods of preservation, preparation, cooking and eating various foods. Food is also integral to our social, religious and cultural lives and the unit will investigate the historical origins of some of these customs. Students will have the opportunity to range across time and place (through readings, recipes and field trips) to explore foods that are part of their cultural heritage - or feasts that they wish they could have eaten from centuries long past.

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.

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.

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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.

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.

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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.

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.

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.

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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.

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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.

102520.1 From Vindication to Liberation: A Comparative History of Feminism

Credit Points 10 Level 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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Beginning with Mary Wollstonecraft's A Vindication of the Rights of Woman, this historical survey analyses the Western feminist ideas and action over the past two centuries, exploring examples from Australia, France, the UK and the US. Important stages in the history of Western feminism will be studied, from the early equality feminism of the eighteenth century, to domestic feminism and the woman suffrage campaigns of the nineteenth. Aspects of

the history of more recent feminism will include such developments as the role of maternalism in the creation of the welfare state, and the shift to an emphasis on liberation in the 1960s and 1970s.

400881.3 Functional Anatomy

Credit Points 10 **Level** 1

Prerequisite

400868.2 Human Anatomy and Physiology 1

Equivalent Units

400134 - Human Medical Sciences 3, 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.

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.

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.

102733.2 Genders and sexualities: beyond the binary

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 80 credit points.

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This unit encourages students to critically reflect on how their own identities and experiences of genders and sexualities are shaped by broader social practices that define what is natural and what is normal. The unit focuses on two substantive topics: the body and institutions. Bodies are usually understood through biological explanations of gender and sexuality. However, this unit will consider how the body is shaped by the social discourses and practices through which genders and sexualities are produced. The unit investigates how age, race, class and ability are coded differently in terms of gender and sexuality. Institutions - families, schools, workplaces and religions - will be studied as sites where genders and sexualities may be observed but also produced and negotiated.

300844.2 General Microbiology

Credit Points 10 **Level** 2

Assumed Knowledge

Knowledge of introductory biology, especially an understanding of the diversity of living organisms and basic concepts of cell structure and function is essential for students undertaking this unit.

Prerequisite

300816.1 Cell Biology OR **300802.1** Biodiversity

Equivalent Units

300331 - General Microbiology

Incompatible Units

MI104A - Microbiology 1.1; 300300 - Microbiology 1; 300833 - Microbiology 1

Special Requirements - Essential Equipment

Students are required to purchase a laboratory manual, lab coat, safety goggles and enclosed shoes.

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Microorganisms play a crucial role in soil and water ecosystems, in health and disease of plants and animals, including humans, as well as in industries such as the food and brewing industries. The unit builds on students existing knowledge of cell biology and biodiversity, and explores the characteristics of micro-organisms, the conditions required for their growth and survival, methods of control and their significance in the environment, health and industry. The theory and practice of microbiology are integrated in the laboratory component in which students learn techniques of handling, observing, growing and counting microorganisms.

101694.3 Geographies of Migration

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 80 credit points.

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An international and cross-institutional discussion of immigration and settlement. Covering the theory and experience of immigration. Considers the international and national regulation of immigration and settlement policies, as well as refugee policy. Case studies are from Australia and Canada, and Singapore. Within mixed tutorial groups (with students from Singapore, Vancouver & Sydney) students will exchange experiences and opinions of immigration.

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.

301218.2 Global Citizenship and Engagement

Credit Points 10 **Level** 3

Prerequisite

Students must have completed 120cp in their currently enrolled course prior to enrolling in this unit.

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The unit aims to engage students with current global contexts to integrate professional knowledge and develop skills, attitudes and behaviours that support them to be global citizens with inter-cultural competence. As part of the unit students will be required to undertake a global learning experience relevant to their studies. This experience may involve travel to an overseas organisation and/or community, or participation with a local or online globally focused organisation. The unit is completed across a year of study, with the first semester a preparatory experience, mid-semester the opportunity to complete an global short program, and the final semester a time to reflect. Students will immerse themselves in their new global environment, make sense of the organisation's or a community's modes of action and meaning, and negotiate their ways of acting and being in the process of becoming a member and contributing to the organisation and/or community with which they engage. Students in this unit

will reflect on global engagement experiences to discuss self-learning and how this learning informs personal and professional development.

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.

300917.2 Global Nutrition, Food and Community

Credit Points 10 **Level** 3

Assumed Knowledge

Understanding of human nutrition and associated health issues

Prerequisite

300933.1 Nutrition and Health 1

Equivalent Units

300651 - Nutrition and Community Health, 300786 - Global Nutrition Food and Community

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This unit aims to develop an understanding of the inter relationship between nutrition and health in Australian and Global contexts. The aim is to provide the student with a sound foundation in nutritional anthropology, public health nutrition and health promotion in order that they can systematically analyse nutritional problems associated with world food issues; including those affecting minority and culturally and linguistically diverse groups within Australia; diseases of affluence and current health and nutrition issues in the community. An important objective of the unit is that students learn the principles of health promotion and how to apply effective nutrition promotion strategies in community and population settings in order to reduce the burdens of various nutritional and lifestyle related disorders and diseases like: obesity, some cancers, diabetes and cardiovascular disease and malnourishment.

101735.2 Global Politics

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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The experiences of globalization are explored from a variety of levels across time and space, from the individual to the local, the national to the international. The focus in this course will be on issues of politics, both domestic and international, but we will keep in mind that globalization is a phenomenon that is explored and assessed by a wide range of disciplines, including history, sociology, politics, law, economics, anthropology, gender studies, human geography, economics, regional and area studies, science and technology, health and epidemiology.

102345.2 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.

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.

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 practice", which is the body of traditional social and legal custom and practice of the Islamic community. The specialised documentation of Hadith (sayings or actions attributed to the Prophet) made this body of text a reliable and favoured method of knowing the sunnah of the Prophet Muhammad. In this unit students will explore the origin and development of hadith, its sources, and function in Muslim life.

101716.3 Healing and Culture

Credit Points 10 **Level** 3

Incompatible Units

100886 - Special Topics in Cultural and Social Analysis

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

This unit takes as its starting point the idea that disease has social and cultural as well as biological origins. What people define as good health and illness, and how they treat the latter are profoundly shaped by cultural frameworks. Healing practices, including biomedicine, are underpinned by cultural understandings and larger configurations of power. We will examine notions of disease causality across cultures and explore the argument that good and ill health are about more than just the body. Popular understandings of illness and its origins, and techniques for responding to and seeking to remedy illness can be a reflection of how different societies imagine their place in the world.

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

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.

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.

101610.3 Health, Illness and Biomedicine: A Sociological Perspective

Credit Points 10 **Level** 2

Equivalent Units

101361 Sociology of Medicine and Health Care

Unit Enrolment Restrictions

Successful completion of 40 credit points.

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The Sociology of Medicine and Health Care starts from the basic premise that illness and health are social as well as biological processes. Traditional areas of the discipline are

explored and in each case their applicability to public health is stressed. At the same time, an important goal is to suggest how that field is being redefined and reinvigorated by social and cultural studies of science and technology. The theoretical perspectives and substantive issues raised and developed to study them are critically examined. The provision and organisation of health care are examined with emphasis on the social and political context in which public health is pursued and ill health treated within Australia.

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 prerequisite 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.

102766.1 Historical Methodologies

Credit Points 10 **Level** 3

Assumed Knowledge

Students are expected to have completed prior study in either the History and Political Thought or Modern History majors and to understand the conventions of essay writing and referencing in history.

Prerequisite

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

Students are required to have completed two of the three Level 1 and 2 History and Political Thought or Modern History core units.

Equivalent Units

102001 - Theories and Methods of History

Unit Enrolment Restrictions

Successful completion of 80 credit points of study in currently enrolled course.

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The unit is an overview of Western historical thought and writing, from Herodotus to Foucault, demonstrating different approaches to historical knowledge. We examine some of the many ideas and sources that have influenced historical writing as well as some of the enduring questions, such as 'What is historical truth?' and 'Can history ever be objective?' Our exploration will include both close reading of texts and more 'hands-on' exercises to gain insight into different historical methodologies.

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 periods, places and perspectives, then this is the unit for you. The history of ideas is concerned with exploring and understanding the lived experience, the reality of ideas. We consider how the history of ideas can help us to interpret key thinkers and their ideas and how these ideas have shaped societies past and present.

100507.4 History of Modern China to 1949

Credit Points 10 **Level** 3

Equivalent Units

63177 - History of Modern China 1850-1949: Reform and Revolution.

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This Asian history unit is concerned with the transformation of China in a social, political and intellectual context since the late eighteenth century. The unit focuses on China's modern transformation in the first half of the twentieth century and its relevance for contemporary China. The scope is broad, encompassing changes from the last phases of the Qing Dynasty to the Republican era and the rise to power of the Communists in 1949. The approach is issue-oriented, thematic and, where appropriate, chronological.

102184.1 History of Muslim Civilisations and Ideas

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit focuses on intellectual, societal, institutional and technological developments within the Muslim world. It looks at comparisons and interconnections between regions and peoples and outlines the history and context of Muslim political thought from the death of Mohamed to the contemporary period. The unit will have a strong historiographical focus that examines 'Islamic data-sets' and assesses the concepts of primary and secondary source materials which conventionally are used to construct interpretations of the past.

102734.1 History 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 will investigate 'religion' as an object of historical study. Students will consider a variety of approaches to historical considerations about beliefs, scriptures, and rituals that have come to be defined as religion, as well as those that have not. The unit will examine the development of various religious traditions from its foundation to its present state by exploring them in light of their cultural, political, and social context.

101991.1 History of Sexuality

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit introduces students to some key debates about the definition and origin of sexuality as a concept, and to

the historical origins of particular sexual identities and the political values attributed to them. It teaches students to take account of the differing ways that forms of desire, pleasure, obscenity, pornography, perversion, sin and transgression have been articulated across time and place. In the unit we traverse an array of temporal moments and geographic loci, drawn to the 'hotspots' of historiographic contention.

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

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.

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.

101611.3 Home and Away: Ethnicity and Migration in Australia

Credit Points 10 **Level** 3

Equivalent Units

101320 - Sociology of Ethnicity and Migration

Unit Enrolment Restrictions

Successful completion of 80 credit points.

Using contemporary and historical sociological accounts of migration and ethnicity, this unit analyses the social, cultural and economic impact of international migration, with specific reference to Australia. It further introduces students to major sociological issues, both theoretical and empirical, relating to the construction of migrant groups within settler societies through interviews and qualitative analysis. Key concerns of the unit include the position of indigenous peoples, race and racism, ethnic identity, and ethnic conflict and cooperation in society.

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.

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.

101676.4 Human Learning

Credit Points 10 **Level** 2

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

Students in 'Human Resource and Industrial Relations Strategy' analyse the human resource and industrial relations strategies of the major employment relations stakeholders. While the principal focus is on the organisational level of analysis and on the strategic interventions introduced by management, the unit also analyses the strategic roles of government, trade unions, and employer associations. Through a range of learning activities, students examine the relationship between business strategies and HR/IR strategies, strategic HR/IR interventions, the concept of strategic choice as it concerns stakeholders and the evaluation of strategy. Students also engage with the development of human resource

management and industrial relations as a professional field and consider ethics and professional standards.

200859.1 Human Resource Development

Credit Points 10 **Level** 2

Prerequisite

200300.2 Managing People at Work

Students enrolled in 1735 Bachelor of Humanitarian and Development studies are exempt from having to complete 200300 Managing People at Work.

Equivalent Units

61422 - Employee Training and Development, 200610 - Employee Training and Development

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'Human Resource Development' (HRD) looks at how the development of people and their skills is essential to the 21st century workplace. By examining the key processes of employee learning, development and career management, participants will understand HRD's impacts on workers' employability and careers, organisational effectiveness and economic sustainability. The unit introduces concepts of workplace learning and engages participants in case study discussion and research into current HRD trends in Australian and international workplaces. The goal of Human Resource Development is to support participants to ask questions about current practice and to encourage critical understanding of the field.

101988.1 Human Rights and Culture

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit examines the cultural consequences of the rise of the global human rights regime. It introduces debates about cultural relativism and universal human rights and explores a number of areas of contemporary conflict between cultural practices and human rights norms. It also examines the role of human rights NGOs in creating a new global human rights culture, and asks what it means to be a subject of human rights.

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.

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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.

101612.4 Identity and Belonging

Credit Points 10 **Level** 2

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Identity and belonging are foundational concepts in sociology. This unit commences with an overview of the ways in which these concepts are understood in the social sciences and how these understandings have been impacted more recently by processes of globalisation. Through engagement with films, documentaries and academic texts the unit explores different modes and sites of identity and belonging as they circulate on both local and global scales. Specifically, we will examine topics like gender and sexuality, home and neighbourhood, the nation state and nationality, social class, consumption, work and leisure, ethnicity, youth cultures and new media. The unit equips students with the concepts and theories necessary for an understanding of social continuity and social change and encourages them to reflect on their own identities and social and cultural positionings.

300847.2 Immunology

Credit Points 10 **Level** 2

Prerequisite

300936.1 Functional Proteins and Genes

Equivalent Units

300229 - Immunology, 301354 - Immunology

Incompatible Units

300223 - Cell Signalling and Molecular Immunology

Unit Enrolment Restrictions

Successful completion of 60 credit points at Level 1 and 20 credit points at Level 2.

Special Requirements - Essential Equipment

Lab coat, enclosed footwear, safety goggles.

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From 2020 this unit is replaced by 301354 - Immunology. This unit aims to provide students with an understanding of the structure and function of the immune system, and particularly highlights common and unique systems that exist across kingdoms and phyla. A foundation is built by examining the organs and cells of the human immune system. The peculiarities associated with the immune systems of marsupials, due to their early developmental stage at birth, will also be examined. Students will also develop laboratory expertise that involves immunological principles, investigative proficiency, and science communication skills, leading to understanding the knowledge base through self-learning and group work.

101905.3 Indigenous Cultures: A Global Perspective

Credit Points 10 **Level** 3

Equivalent Units

300113 - Indigenous Tourism, 100600 - Indigenous Cultures and Tourism: A Global Perspective

Unit Enrolment Restrictions

Successful completion of 60 credit points.

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Drawing on global case studies, this unit aims to introduce students to some of the pressing socio-cultural issues facing indigenous peoples around the world. The unit examines the complex relationships between globalisation, colonialism and post-colonialism and contemporary indigenous cultures and identities. It draws attention to the way in which issues of representation, cultural autonomy, cultural commodification, development and human rights play out with respect to indigenous peoples' lives. More specifically, the unit interrogates the power relations and politics central to many of these issues and examines the nature of contemporary indigenous and non-indigenous interactions, particularly in the contexts of tourism and heritage, the cultural industries, the environment, development and urbanisation.

101878.2 Indigenous Landscapes

Credit Points 10 **Level** 1

Equivalent Units

300631 - Indigenous Landscape

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In 2020 this unit replaced by 102805 - Indigenous Landscapes. Indigenous Landscapes aims to explore 'traditional' Indigenous Australian ways of knowing landscape. Specifically, the unit acknowledges and values pre-colonial Australian history and land-use practices. Content includes 'traditional' land management practices; protected area management, joint management /co-management; Native Title; Land Rights; Indigenous versus statute law; sustainable land use; cultural heritage and heritage landscapes. This unit also aims to equip students with cultural competency in order to address issues of dispossession and disadvantage brought about by the historical destruction and disruption of ecological integrity.

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

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.

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.

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.

From 2022 this unit replaced by 800243 Changemakers and Entrepreneurship. 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.

200917.2 Innovation, Enterprise and Society

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 80 credit points.

Innovation, Enterprise and Society focuses on forces driving innovation, creativity and technical change at the levels of entrepreneurship, enterprise, economy and society. It also examines the effects of innovation at these various levels. This unit is a professional core unit in the Bachelor of Business. The unit takes a multi-disciplinary approach utilising critical thinking, debates, problem solving, policy analysis and case studies. Students will understand the professional, social, public policy and global networks and systems informing and surrounding innovation. Successful completion of the unit equips students to appreciate the entrepreneurial, political and social dimensions of innovation.

300515.6 Instrumentation and Measurement (PG)

Credit Points 10 **Level** 7

Assumed Knowledge

Assumed knowledge for 300515 Instrumentation and Measurement (PG) is: 1) Basic electronics including amplifier, circuit theory and circuit design; 2) A basic understanding of statistics. Computational skills (SPICE) and a basic understanding of circuit simulation are desirable.

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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

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.

101950.1 Intercultural Communication

Credit Points 10 **Level** 3

Equivalent Units

101454 - Intercultural Pragmatics

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This unit aims to develop the communicative competence of students in intercultural contexts and raise their awareness of issues in the use of languages. It helps the students understand hidden socio-cultural dimensions and equips them with the knowledge and skills necessary for intercultural communication. It also prepares them to critically analyse linguistic and cultural differences around them, appreciate linguistic and cultural diversity, and integrate the unit contents into their future careers. The impact of intercultural communication is highlighted in a

range of real-life sectors, such as second language teaching and learning, translation and interpreting services, international business, tourism, community services, and organisational communication. Lectures will be delivered in English and depending on demand, language-specific tutorials will be delivered in Arabic, Chinese, Indonesian and Japanese as well as English.

200590.2 International Business Project

Credit Points 10 **Level** 3

Assumed Knowledge

This is a capstone International Business unit. It is assumed that students have basic international business knowledge and research skills.

Prerequisite

200591.2 Introduction to International Business

Equivalent Units

61125 - International Business Project 1

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This is a capstone unit in International Business. The aim of the unit is to give students a real-life action learning project in which they undertake an international business strategic planning and analysis exercise for a client organisation. This project usually involves students working in small teams for a client organisation under the direct supervision of the lecturer.

200626.3 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.

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.

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.

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'International Human Resource Management' examines the implications for human resource management that arise from the internationalisation of organisations. Through portfolio reports and case studies, students analyse a range of comparative systems and structures of employment relations and the strategic management of global organisations. This analysis includes a focus on key human resource functions including recruitment, training, reward and evaluation of the impact of society, politics, economics and culture of host countries on human resource strategies. Students examine also the role of global stakeholders and assess the implications for human rights that arise from globalisation.

200961.2 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.

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This unit examines the foundations of the concept of human rights under international law, how international law became concerned with the rights of individuals and the development of international measures for the protection of human rights. It examines the extent of compromise of

international human rights where sovereignty, cultural relativism and political resistance preclude comprehensive incorporation of some fundamental human rights principles in domestic law. Instruments such as The Charter of the United Nations, The Universal Declaration of Human Rights, The International Covenant on Civil and Political Rights and International Covenant on Economic, Social and Cultural Rights are also examined.

200094.4 International Marketing

Credit Points 10 **Level** 3

Assumed Knowledge

Students should have a good understanding of marketing research, brand management and the foundations of economics.

Prerequisite

200083.2 Marketing Principles OR **200591.2** Introduction to International Business

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Marketing internationally has become a necessity for many firms that wish to survive and grow in today's dynamic and increasingly linked world economy. International Marketing is concerned with understanding and successfully managing the different international economic, cultural, political and legal environments as they affect the marketing activities of companies. International Marketing examines the role of marketing research, international finance, overseas market entry and expansion strategies and the marketing mix in international markets. On completion of this unit students will have acquired a sound theoretical basis and, particularly, a practical understanding of how companies operate in international markets.

102189.1 International Organisations and Global Governance

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit addresses the competing concepts inherent in global governance through an examination of the existing international society of states whose principle is based on respect for state sovereignty. It also addresses the complex process of global governance in which states, non-governmental organisations, multinational corporations, and intergovernmental organisations participate and pursue their goals. It will specifically look at the complex role of the United Nations, the United Nations Security Council, and the role of international organisations aimed at addressing issues, such as security, human rights, humanitarian intervention, trade, the environment, health, migration, and labour rights.

102190.1 International Relations of Southeast Asia

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit focuses on the key international relations issues and challenges facing the Southeast Asian region in the 21st century. Commencing with the historical issues that have shaped the nations of Southeast Asia it will then consider the issues, such as the war on terrorism; the economic demands of globalism; maritime security; and social and political demands centred around issues such as democracy, human rights, the environment, and transnational crime. Finally, it will consider the shifting power structure within the Asian region and whether this will result in Southeast Asia gaining genuine autonomy and the impact this has on regionalism.

200963.2 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

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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.

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.

From 2H 2022 this unit replaced by 800238 Citizenship and Community Engagement. 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.

700287.1 Interpreting Data In Science (WSTC Prep)

Credit Points 10 **Level** Z

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

Science is a way of knowing about the world. It is a process of discovery whose product, an evolving body of scientific knowledge and technology, is a significant determinant of modern Western societies. Engaging with the content, process, and social functions of science requires foundational scientific literacy, including the ability to access multiple textual forms, to construct meaning, and to critically evaluate new information in a scientific framework. In this unit students will develop skills in scientific literacy through undertaking case studies of contemporary relevance. Emphasis is placed on key competencies in scientific academic writing – collecting, analysing, organising, interpreting and communicating information – as well as solving problems related to mathematical ideas and techniques.

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

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.

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.

300825.2 Introduction to Anatomy

Credit Points 10 **Level** 1

Assumed Knowledge

HSC Biology

Equivalent Units

300319 - Introduction to Anatomy and Histology, 300752 - Introduction to Anatomy and Histology, 300778 - Introduction to Anatomy, 700097 - Introduction to Anatomy (WSTC)

Incompatible Units

300361 - Introduction to Human Biology, 400130 - Human Medical Sciences 1, 400256 - Human Medical Sciences 2, 400134 - Human Medical Sciences 3, 400868 - Human Anatomy & Physiology 1, 400869 - Human Anatomy & Physiology 2

Unit Enrolment Restrictions

Due to space and resource limitations, this unit will be restricted to students enrolled in 3673 Bachelor of Medical Science and 3682 Bachelor of Medical Science (Advanced), 3562 - Bachelor of Science (Advanced Science), 3589 - Bachelor of Science (Forensic Science)

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This unit provides a basic understanding of human anatomy. It undertakes this by utilising a systems approach (in contrast to a regional approach), emphasising the special relationship between form and function.

401077.2 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.

102709.2 Introduction to Criminal Justice

Credit Points 10 **Level** 1

Equivalent Units

101560 - Introduction to Crime and Criminal Justice, 400680 - Crime and Criminal Justice, 700127 - Introduction to Crime and Criminal Justice (WSTC), 700300 - Introduction to Criminal Justice (WSTC)

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This unit introduces students to criminal justice issues and practices through an examination of the Australian criminal justice system and its processes. This is achieved through

a court visit (either virtual or physical) as a method of unobtrusive participant observation. Students will examine how the criminal justice system works (and sometimes fails to work), and how police, courts, and corrections influence the processes of criminalisation, victimisation, and (in) justice.

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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From 1H 2022 this unit replaced by 800242 Critical and Systems Thinking. 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.

102913.1 Introduction to Culture and Society

Credit Points 10 **Level** 1

Equivalent Units

100897 - Everyday Life, 700135 - Everyday Life (WSTC)

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Introduction to Culture and Society examines the ways culture – as both representation and practice – shapes individual and collective identities. It will focus on the rituals and routines of everyday life, and their connection to our wider social relationships. The unit will also explore inequality both in Australia and globally, the social structures that generate this inequality and the cultural processes by which we mark status and social distinction.

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.

100964.3 Introduction to Film Studies

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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The unit will introduce students to the key theoretical strands of film studies and key concepts in the analysis of film. The unit will explore techniques of narrative, performance, genre, realism and spectatorship, as well as introducing methods to analyse the use of editing, cinematography and sound. A case study of a key historical film movement or genre will introduce students to the study of cinema in its cultural contexts. The unit will also address the transformations in screen cultures as a result of digital technologies and new media.

300134.3 Introduction to Information Technology

Credit Points 10 **Level** 1

Equivalent Units

B1582 - Introduction to Computers, J1742 - Computer Fundamentals, 61211 - Information Technology

Unit Enrolment Restrictions

Permission required for students enrolled in 3562 Bachelor of Science (Advanced Science).

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This introductory unit gives students an insight into the history, structure, operations and uses of computers, and their impact on society. This will be complemented by hands-on use of computers and popular application software packages in a graphical user interface environment. Students gain a basic understanding of the uses of computers, and the skills necessary to use popular applications software, including word processing, spreadsheet and database packages, and Internet tools and services.

200591.2 Introduction to International Business

Credit Points 10 **Level** 1

Equivalent Units

61128 - International Business and Asian Environment

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)

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This is a foundation unit for the major in International Relations and Asian Studies. As such, this unit will introduce students to key topics and debates in the field of International Relations (IR). The unit will familiarise students with leading IR theories and their explanation of political events, phenomena, and processes which cross the territorial boundaries of the state. Students will be exposed to the interplay between power, interest, ideas, identity, and resistance, in explaining continuity and change in international relations. The unit is designed to provide students with the analytical tools and intellectual frameworks needed to understand the behaviour of different international actors in contemporary global affairs.

100194.2 Introduction to Interpreting

Credit Points 10 **Level** 1

Assumed Knowledge

Proficiency in English and other language (LOTE) at native or near-native level

Equivalent Units

A1335 - Interpreting 1, A1336 - Interpreting 2, A3395 - Introduction to Interpreting

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This is a core unit for students in the Bachelor of Arts (Interpreting and Translation) course and an elective foundation unit for language key field of study in the BA. It introduces students to the theory and practice of Interpreting. Lectures are held in English for students of all the languages available. The tutorials are language specific in Arabic, Japanese, Mandarin or Spanish. This unit requires native or near-native proficiency in English and one of the languages offered in the unit.

101945.2 Introduction to Linguistics

Credit Points 10 **Level** 1

Equivalent Units

100928 - Linguistics

Language is an integral component of human experience. This unit is designed to raise students' awareness of the nature, structures and functions of language and language use. Students will gain the conceptual tools to do basic analysis of language at the levels of phonology, morphology, syntax, semantics and pragmatics. By providing a basic understanding and appreciation of language from different perspectives, the unit establishes points of contact between language, the humanities, and beyond.

101907.1 Introduction to Literary Studies

Credit Points 10 **Level** 1

Equivalent Units

100862 - English, Text and Writing, 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.

300818.1 Introduction to Physiology

Credit Points 10 **Level** 1

Equivalent Units

300753 - Introduction to Human Physiology, 300620 - Physiology 1, 700098 - Introduction to Physiology (WSTC), 301353 - Introduction to Physiology

Incompatible Units

300361 - Introduction to Human Biology

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From 2020 this unit is replaced by 301353 - Introduction to Physiology. This unit introduces the concept of homeostasis and critically examines examples of how the body systems are regulated and homeostatically controlled. The unit uses a body-systems approach to examine the physiology of tissues, organs and systems in order to

develop an integrated view of the regulated functioning of the human body.

301353.1 Introduction to Physiology

Credit Points 10 **Level** 1

Equivalent Units

300753 - Introduction to Human Physiology, 300620 - Physiology 1, 700098 - Introduction to Physiology (WSTC), 300818 - Introduction to Physiology

Incompatible Units

300361 - Introduction to Human Biology

.....

From 2020 this unit replaces 300818 - Introduction to Physiology. This unit introduces the concept of homeostasis and critically examines examples of how the body systems are regulated and homeostatically controlled. The unit uses a body-systems approach to examine the physiology of tissues, organs and systems in order to develop an integrated view of the regulated functioning of the human body.

700098.3 Introduction to Physiology (WSTC)

Credit Points 10 **Level** 1

Equivalent Units

300753 - Introduction to Human Physiology, 300620 - Physiology 1, 300818 - Introduction to Physiology

Incompatible Units

300361 - Introduction to Human Biology, 700061 - Introduction to Human Biology (WSTC)

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College. Students enrolled in Extended Diplomas must pass 40 credit points from the preparatory units listed in the course structure prior to enrolling in this University level unit. Students enrolled in the combined Diploma/Bachelor courses listed below must pass all College Preparatory units listed in the course structure before progressing to the Year 2 units.

Special Requirements - Essential Equipment

Safety glasses, lab coat, lab book

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NOTE: From Term 3 2020 this unit is replaced by 700295 - Concepts in Human Physiology (WSTC) - This unit introduces the concept of homeostasis and critically examines examples of how the body systems are regulated and homeostatically controlled. The unit uses a body-systems approach to examine the physiology of tissues, organs and systems in order to develop an integrated view of the regulated functioning of the human body.

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.

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.

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.

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This unit is designed to develop an understanding of the Australian legal system for students whose courses involve law units relevant to their area of study, such as Business, Construction, Policing and Criminology. Students will investigate the role of the Australian legal system in contemporary society, and explore its relevance to their chosen career path through project-based assessments. The unit will also help students develop the language and communication skills necessary for further tertiary study.

100195.2 Introduction to Translation

Credit Points 10 **Level** 1

Assumed Knowledge

Proficiency in English and other language (LOTE) at native or near-native level

Equivalent Units

A1345 - Translation 1, A1346 - Translation 2, A3394 - Introduction to Translation

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This is a core unit for students in the Bachelor of Arts (Interpreting and Translation) course and an elective foundation unit for language key field of study in the BA. It introduces students to translation theory and practice. Lectures are held in English for students of all languages. The tutorials are language specific in Arabic, Japanese, Mandarin and Spanish. The unit is only available to students with a high level of proficiency (native or near-native level) in one of the languages offered. The languages offered, subject to demand, are: Arabic, Chinese, Japanese, and Spanish.

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.

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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.

900084.2 Introductory Programming (WSTC)

Credit Points 10 **Level** Z

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300918.4 Invertebrate Biology

Credit Points 10 **Level** 3

Assumed Knowledge

A basic understanding of core concepts of biology and/or zoology is desirable.

Equivalent Units

300334 - Invertebrate Biology, 401170 - Forensic Biology

Unit Enrolment Restrictions

Students must have completed 120 credit points, with at least 40 credit points at level 2.

Special Requirements - Essential Equipment

Students must have covered footwear for practical classes and field excursions; laboratory coat and safety glasses.

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Invertebrates are the most diverse and abundant organisms in aquatic and terrestrial environments. Due to their key role in many ecosystems, biologist E. O. Wilson coined the phrase of invertebrates as the 'little things that run the world'. Besides their ecological importance, many invertebrates are useful to humans, whereas others are harmful to agriculture, human and veterinary health. This unit highlights invertebrate diversity and life histories as well as their key ecological and economic importance. It also includes hands-on laboratory and field studies. This unit is designed for students with career pathways in science (e.g. animal, environmental, forensic and medical sciences) as well as agriculture, environmental management and education.

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.

101468.2 Islam, Media and Conflict

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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Provides students with an understanding of global, regional and local news media production and representations of Islam and Muslim societies. It discusses new, emerging and alternative forms of media discourses of conflict in the Muslim world, and analyses selected news reports as forms of case studies. Taking the notion of 'Orientalism' as its starting point, the subject/unit critically examines the extent to which the mediatisation of conflict impacts relations between Islam and the West vis-a-vis debates on Orientalism, 'Asian values' and Islamic world views.

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.

101331.3 Issues in World Development: Rich World, Poor World

Credit Points 10 **Level** 2

Equivalent Units

400677 - Issues in Third World Development

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This unit introduces students to the field of international development, where the divide between the rich world and poor world takes a centre stage. While development has created prosperity around the world, it is not without discontents. Social and economic inequality at the global level is a real problem and has been increasing. The 'developed' and 'developing' world paradigm will be critically examined. Students will be equipped with theories and practicum examining development, underdevelopment and their related issues within a contemporary political, economic and social framework. Students will also have exposure to current global development debates such as poverty, global inequality, sustainable development, democracy and security.

100085.2 Japanese 101

Credit Points 10 **Level** 1

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This unit is an introduction to the Japanese language and some related culture. It is intended for beginner students only, who have never studied Japanese. This unit will cover the most basic level of the Japanese language in all four skills: listening, speaking, reading, and writing. The Japanese characters covered in this unit include the hiragana and katakana. Students with a background of study in the language need to obtain advice on their appropriate level of language study. During the first two weeks of class, the lecturer will monitor the performance of students and advise students who need to transfer to a

higher class. Students should consult the Languages Academic Course Advisor or Unit Coordinator if they are unsure of their entry level.

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 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.

.....
 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.

100001.3 Keeping the Past

Credit Points 10 **Level** 2

Equivalent Units

53403 - Keeping the Past

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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 Legislation requires the preservation of natural, built and movable heritage, but choices about what to keep often produce controversy and reveal starkly varying opinions about what is historic. From the choice of people commemorated in statues to modest buildings on the site of new developments, local communities and central governments are divided about whose past is protected and praised. The historian's investigation of places and objects is an important part of the formal assessment process and may be part of controversial debates. Parramatta has a rich selection of heritage places. How does heritage fit in a modern CBD? Site visits around the city will identify archaeological and architectural heritage to promote discussions, museums will showcase objects from the past, documents preserved in archives will offer insights and historical research techniques will help to answer the questions "What should be kept from the past?" and "Why should it be kept?"

900109.1 Key Ideas in Arts and Social Sciences (WSTC)

Credit Points 10 **Level** Z

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.

102781.1 Labour and Culture

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points in currently enrolled course.

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In recent history, social, economic, political and technological forces have produced profound changes to work and working life, undermining the stability of jobs and vocational skills, and disrupting and fragmenting career structures. This unit traces 1) the history of work, from pre-industrial to post-industrial times, 2) the rise of the factory system, 'Fordism' and scientific management of production, 3) the modern idea and experience of leisure and recreation as an adjunct to wage labour, and, in post-Fordist times, of culture and creativity as a central part of work, 4) the influence of technology on skills, and the rise of the 'knowledge economy' in the digital era, 5) the role of worker organisations in securing and protecting conditions of work.

300875.2 Landuse and the Environment

Credit Points 10 **Level** 2

Equivalent Units

300624 - Landuse and the Environment

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This unit will assist students develop a sound framework for the analysis of land use and its interactions with the environment. The skills gained will assist in the evaluation of land use at various levels from household to international level. Particular emphasis will be placed on students gaining a sound conceptual framework from which to examine sustainability at the environmental, economic, social, and production levels. Emphasis will be placed on the use of ecological footprinting as a tool.

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.

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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From 1H 2022 this unit replaced by 800239 Leadership in Complexity. 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.

102161.2 Leading Change

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 explores change and leadership through a range of contexts. In this unit we critically analyse cultural, structural and political dimensions of change in organisations, systems and communities. This unit is grounded in leadership models that feature collaborative and relationship enhancing approaches to enable purposeful change.

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.

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.

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.

101724.2 Literary Animals

Credit Points 10 **Level** 3

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.

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.

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.

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.

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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From 2H 2022 this unit replaced by 800241 - Logic, Argumentation and Post-Truth. This unit is designed for high-achieving students who may be enrolled in Advanced degrees or the Bachelor of Applied Leadership and Critical Thinking. This unit provides students with a detailed understanding of logical and rhetorical arguments in order to prepare them for leadership roles in the future. Throughout the unit, students will appraise the structure of logical and rhetorical arguments, evaluate classical arguments and critiques and assess the structure, validity and soundness of philosophical arguments.

101733.2 Looking at Global Politics Through Film

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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Popular representations of world politics shape our collective understanding of political history and international relations. This unit examines the ways in which film can communicate political messages to its audience, as well as the far more difficult issue of the effects that those messages might have on viewers. Although the discipline of International Relations (IR) has overwhelmingly ignored popular culture, it is the argument of this unit that popular culture actually provides us with a wealth of significant representations of world politics.

200926.1 Macroeconomic Measures and Models

Credit Points 10 **Level** 3

Assumed Knowledge

Knowledge acquired in introductory microeconomics, macroeconomics and accounting.

Equivalent Units

200546 - Macroeconomic Issues

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The unit equips students with formal tools to analyse macroeconomic problems. Students learn to use

macroeconomic terms and measures competently in discussion, and interpret data from the income, product, external and government accounts, and labour force surveys. Through hands-on experience constructing and applying price indices, deflators and productivity measures, they acquire practical skills and a sound conceptual understanding of economic variables and the accounting framework. Students come to appreciate the power of macroeconomic models, learning how to capture myriad mechanisms and feedbacks in a single framework, for example to define and quantify multipliers and crowding-out effects. Finally, students gain an understanding of fundamental external constraints, such as international parity and balance of payments equilibrium conditions.

401075.2 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.

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.

200571.4 Management Dynamics

Credit Points 10 **Level** 1

Equivalent Units

700080 - Management Dynamics, 700003 - Management Dynamics (UWSC), 200912 - Enterprise Leadership

Incompatible Units

MG102A - Management Foundations, 200879 - Introduction to Business Studies

Unit Enrolment Restrictions

External offerings for this unit are only available to students who are enrolled in a Property course or specialisation.

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In 2016, this unit is replaced by 200912 - Enterprise Leadership. The unit provides an opportunity for students to engage with the fundamental issues and theories of management as well as understand that management itself is dynamic and evolving. Students will be introduced to how work and management systems are organised and managed, and how these impact upon individuals, other organisations or society as a whole. The unit covers both the theory and the practice of management and employment relations and is an essential unit for business students in order that they achieve a broad initial understanding of management and employment relations.

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.

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.

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.

300959.2 Mangamai'bangawarra: Indigenous Science

Credit Points 10 **Level** 2

Assumed Knowledge

Equivalent to a basic understanding of Level 1 introductory biology and chemistry.

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This unit explores aspects of Aboriginal science and medical science in the treatment and prevention of illness. The unit has a particular focus on the knowledge of the local D'harawal People. The culture and history of Indigenous Australians is introduced to provide a contextual backdrop to the study of Indigenous medical remedies from eastern Australia, the deserts, and the tropics. To complement this study, Indigenous perspectives on the seasons, weather and land management will be studied.

300978.2 Marine and Aquatic Ecology

Credit Points 10 **Level** 3

Assumed Knowledge

Concepts of classification, evolution, taxonomy, cellular processes plant and animal structure and function, normal distribution, representative sampling, probability and uncertainty

Equivalent Units

300465 - Aquatic Ecology, 300929 - Aquatic Ecology

Unit Enrolment Restrictions

Successful completion of 80 credit points at Level 1 and 40 credit points at Level 2.

Special Requirements - Essential Equipment

Students must wear covered footwear for field excursions.

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Temperate freshwater, estuarine and marine aquatic ecosystems play vital roles in providing food, water, recreation and other ecosystem services to human society and habitats for important species that make up global

biodiversity. Yet aquatic habitats are the most threatened ecosystems on earth, under threat from global climate change and urbanisation. Through inquiry and problem solving this unit will equip students with the necessary techniques in experimental design and analysis needed to investigate aquatic ecosystems and knowledge of the main animal and plants in aquatic and marine ecosystems. The logic and philosophy of science, scientific studies and experimental analyses will be used to understand temperate aquatic ecosystems throughout this unit. On completion students will have the background knowledge and skills communicate to a range of audiences, so that they can contribute beneficially to management and/or conservation of waterways and oceans and the biodiversity within.

200086.3 Marketing Communications

Credit Points 10 **Level** 2

Assumed Knowledge

Basic principles of marketing

Prerequisite

200083.2 Marketing Principles

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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

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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.

200083.3 Marketing Principles

Credit Points 10 **Level** 1

Equivalent Units

700001 - Marketing Principles (UWSC), 700089 - Marketing Principles (Creative Industries)

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, with a focus on the impact of digital technology. Areas of study include market segmentation and positioning; product decisions and branding; customer decision processes, omnichannel marketing; digital marketing communications; pricing strategies; and customer insights. 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 marketing practice and theory.

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.

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.

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.

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

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.

102489.1 Meaning in Language

Credit Points 10 **Level** 2

Assumed Knowledge

Knowledge of introductory linguistic terminology, specifically in morphology and syntax.

Prerequisite

101945.2 Introduction to Linguistics

Equivalent Units

101947 - Pragmatics

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This unit introduces students to how meaning is constructed in language. It gives an overview of context-free meaning (semantics) and context-dependent meaning (pragmatics). Students will learn how we can encode and access meaning in communication and how this can be studied scientifically. This unit builds on and expands knowledge and methods developed in other linguistics units, especially Structure of Language and Pragmatics. It further connects to more advanced units, in particular Historical Linguistics, Second Language Acquisition, Bilingualism, Sociolinguistics and Discourse Analysis.

301018.3 Mechanical System Design

Credit Points 10 **Level** 7

Assumed Knowledge

The students are assumed to have a good understanding on basics of mechanical design, fundamentals and advanced topics in mechanics of materials, fundamentals on fluid mechanics and heat transfer and thermal dynamics.

Unit Enrolment Restrictions

Students must be enrolled in the Master of Engineering, Graduate Certificate in Engineering or Bachelor of Research Studies / Master of Research.

Special Requirements - Essential Equipment

Engineering analysis package - SolidWorks available in SCEM Computer Labs

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This unit advances students understanding on product design and development of machine components and assemblies using systems engineering approaches. The unit covers a review on the design of main components of machinery to ensure their functionality, strength and durability, which includes drive components - gears, shafts, belt drives, and bearings, and structural components - welds and treaded fasteners. The machine assembly design is delivered based on systems engineering.

Academic skills on research and communication are ensured to be achieved through conducting systems engineering approached-based mechanical system design projects.

300600.5 Mechatronic System Design

Credit Points 10 **Level** 7

Assumed Knowledge

Equivalent Bachelor of Engineering degree.

Incompatible Units

300512 - Servo Systems Design (PG), 300191 - Mechatronic System Design

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course

Special Requirements - Essential Equipment

vUWS site SCEM Computer Lab SolidWorks MS Office Suite ANSYS MDSIGN

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This unit will advance the skills of mechanics, mechanical systems and automation in the practice of engineering design as applied to mechatronic devices and systems. The ability to perform detailed design analysis of machine elements as well as control systems as applicable to manufacturing and process machinery is the intended outcome of undertaking this unit and project-based tasks will form part of the learning process and team work experience.

300892.3 Medical Science Project

Credit Points 10 **Level** 3

Equivalent Units

300542 - Biomolecular Science Project, 300924 Science Research Project

Unit Enrolment Restrictions

Students must be enrolled in 3577 Bachelor of Medical Science, 3673 Bachelor of Medical Science, 3674 Bachelor of Medical Science (Nanotechnology) or 3682 Bachelor of Medical Science (Advanced). Successful completion of 80 credit points at Level 2 or 3. Students must have a GPA of 5.5 or above.

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Students will undertake a short research project specific to the field of Medical Science. This will involve undertaking a review of the literature and generating appropriate hypotheses that will subsequently be tested and analysed. Findings will be presented orally and as a written manuscript.

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.

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.

102861.1 Medieval Europe from the Fall of the Roman Empire to the Reformation

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit is an introductory survey of European history from the Middle Ages to the Early Modern period. It begins chronologically with the fall of the Roman Empire, and concludes with the Protestant Reformation. Students will be introduced to three core themes. The first is the gradual emergence of a distinction between church and state in the Christian west, the second is the feudal organization of medieval societies, and the third is the development of intellectual life, including the origin of universities, natural law, and the Renaissance. Students will develop their knowledge as well as their skills in interpreting a variety of primary sources, including Medieval epic, theology, Renaissance art, political tracts, and archival documents including the Domesday book.

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.

102862.1 Migration and Social Change

Credit Points 10 **Level** 3

Equivalent Units

101687 - Transnational Migration, 101848 - Transnationalism and Migration

Unit Enrolment Restrictions

Successful completion of 60 credit points in currently enrolled course.

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This unit will address the key concepts and issues of migration particular to settler colonies like Australia as well as nations in Europe and the Asia Pacific. It will consider the lives of first and second generation migrants and the spaces they inhabit, that is, rapidly growing suburbs and urban fringes. Attention will be paid to how migrant identities intersect with their class, gender and other categories. This includes a close examination of how their livelihoods are impacted by increasing gentrification, health and environmental crises, and intensified forms of border control and anti-immigration sentiment. Finally, the unit will encourage student to understand the contemporary influences such as solidarity movements and online cultures that impact our understanding of migration and prompt social change.

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.

102000.1 Modern European History and Politics

Credit Points 10 **Level** 1

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This unit introduces students to the major events and ideas that have shaped Europe in the late modern period. There is a strong focus on the dramatic events of the twentieth century following the demise of empire, and the subsequent rise of competing nationalisms and radical politics. The unit is concerned equally with the cultural and social contexts in which these events occurred. Students will study the diverse ways in which historians have approached the history of the twentieth century from the study of high politics to the focus on daily life. Methodological questions that will be addressed include the relative role of individual agency and of structural constraints in explaining historical

change. The unit will encourage students to evaluate the period as a whole drawing on scholarship which engages the modernity - democracy - violence nexus.

100271.3 Modern Japanese History

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit considers Japan's trajectory from the battle of Sekigahara in 1600 until the atomic bombings in 1945. We will examine the samurai and ritual suicide, the tea ceremony and Zen Buddhism. We will read tales told by those who frequented the "floating world," populated by wealthy merchants, geisha, and sumo wrestlers. We will consider the creation of Imperial Japan, and we will study its emergence as the only non-Western Great Power. We will enquire into Japan's fledgling democracy in the 1920s, and its descent into militarism and aggression in the 1930s. Finally, we will consider Japan's participation in World War II: its victories, its losses, its propaganda, and its abject defeat.

101033.4 Modernism

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit aims to introduce students to important works of literature from the earlier part of the 20th century. Throughout the course we will be concentrating on literature but will make reference to other art forms (in particular the visual arts) to provide the intellectual context necessary to understanding the ideas of the period. There will be a close study of a small number of important novels or works of poetry from the period, with a close consideration of techniques of writing and the way these techniques contribute to an understanding of the themes in the works.

101001.3 Modernity and Cinema

Credit Points 10 **Level** 3

Equivalent Units

VP215A - Modernity and Cinema

Unit Enrolment Restrictions

Successful completion of 60 credit points

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This unit will engage with the question of how social and aesthetic issues interact in films by examining specific questions which are related to cinema history. Issues of identity will be used to focus upon the ways in which historical contexts interrelate with artistic practice. The unit will consider the process of creating emotions, the consideration of techniques of production and the manipulation of cinema language, the use of narrative or

non-narrative form to convey the sense of reality, (or the unreal, the uncertain).

300817.2 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

300912.2 Molecular Pharmacokinetics

Credit Points 10 **Level** 3

Prerequisite

300849.1 Physical Chemistry

Equivalent Units

300475 - Molecular Pharmacokinetics

Special Requirements - Essential Equipment

Students are required to have a lab coat, a pair of splash proof safety glasses, and a face mask.

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Molecular Pharmacokinetics builds on the fundamental chemical kinetic principles learnt in Physical Chemistry and extends them to the study of absorption, distribution, metabolism, and elimination of pharmaceutical drugs in human body. Upon completing this unit, students will gain a firm understanding of why the pharmacokinetic behaviour of a drug can be fully described by two key pharmacokinetic parameters (i.e. clearance and volume of distribution) and why the absorption rate of a drug can be predicted by examining its chemical structural features alone. Students will also gain the capability of designing dosage regimens for simplified pharmacokinetic scenarios and extracting important kinetic information from plasma drug concentration versus time data obtained experimentally.

301127.2 Mortuary Practice

Credit Points 10 **Level** 3

Prerequisite

300935.2 Evidence and Crime Scene Management AND **300898.3** Appendicular Skeleton AND **301126.1** Concepts in Human Anatomy AND **300806.1** Forensic Science

Corequisite

300894.2 Anatomy of the Thorax and Abdomen

Unit Enrolment Restrictions

Students must be enrolled in 3733 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.

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

.....

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.

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 explores the reasons behind people's behaviours, thoughts, and feelings. This unit examines core research and theory on motivational and emotional systems, exploring how these systems function in general and how that functioning varies due to gender, culture, and other sources of difference. Concepts of motivation and emotion are central to understanding human psychology. The unit positions the topic in relation to other areas of psychological theory (such as learning theory, social psychology, personality, and cognition), investigates its role in psychological practice, and addresses its impact upon practical and philosophical debates within the discipline. Students are encouraged to explore and reflect upon the role of motivational systems in their own lives.

102495.1 Mystical Islam: The Emergence of Sufism in World History

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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Global Islamism has projected a particularly severe, even militant face of Islam across much of the world. Much less well known is the fact that for much of its history Islam has had a quite different face: it has been mystical and contemplative more than proselytising. The Sufist tradition was formed within the first three centuries of Islamic history; its influence spread far and wide across the Muslim World where "Sufis" played a pivotal role in engaging non-Muslim peoples both within and on the fringes of their world. The unit explores religious pluralism and an alternative narrative in Islam.

Units

102343.1 Napoleon: the Making of a Legend

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit appraises the achievement of Napoleon Bonaparte and the manner in which he has been portrayed in his own propaganda, by his contemporaries and by historians. It also considers the historical impact of the Napoleonic and anti-Napoleonic myths in the history of France and Europe. At the heart of the module is the paradox of Napoleon's enduring popularity in France, despite his responsibility for crushing defeats in 1812-1814 and again 1815.

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.

300754.5 Neuroanatomy

Credit Points 10 **Level** 3

Prerequisite

[300818.1](#) Introduction to Physiology OR [400868.2](#) Human Anatomy and Physiology 1 OR [301269.1](#) Human Systems 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: 3733 Bachelor of Medical Science (Forensic Mortuary Practice) 3755 Bachelor of Medical Science, 3758 Bachelor of Advanced Medical Science, 4656 Bachelor of Health Science, 4706 Bachelor of Physiotherapy, 4708 Bachelor of Podiatric Medicine, 4709 Bachelor of Podiatric Medicine (Honours), 4711 Bachelor of Occupational

Therapy, 4712 Bachelor of Occupational Therapy (Honours), 4733 Bachelor of Physiotherapy (Honours), 6002 Diploma in Science/Bachelor of Medical Science, 6042 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.

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.

300934.2 Nutrition and Health 2

Credit Points 10 **Level** 2

Assumed Knowledge

An understanding of human nutrition, food and the metabolism of micro- and macro-nutrients and computer literacy.

Prerequisite

[300933.1](#) Nutrition and Health 1

Equivalent Units

300650 - Nutrition and Health 2

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This unit explores the basic concepts of human nutrition in relation to various stages of the lifespan from infants to late adulthood. It also explores nutrition in relation to chronic health conditions such as obesity, cardiovascular disease and eating disorders. Students will learn about the development of the Australian Dietary Guidelines and Nutrient Reference Values. Students will also learn to make informed decisions with regard to nutritionally critical moments of the life span, emerging nutrition opinions or contemporary uses of nutrition in physical activity, sports and chronic health conditions.

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.

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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)

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Organisational Behaviour examines individual, group and organisational behaviours and the influence these have on each other. This unit is based on developing skills that can help you navigate through these processes and behaviours. The focus is on participation, to guide students to both reflect on and develop their own skills to become better managers, as well as employees.

200157.4 Organisational Learning and Development

Credit Points 10 **Level** 3

Assumed Knowledge

Students are expected to have understanding of business environments.

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Organisational Learning and Development is a Level 3 undergraduate unit which analyses practices and processes designed to transform and renew organisations, in order to enable them to respond effectively to change. This unit will use case studies and other experientially based activities to promote a better understanding of structural and human resources interventions used to ensure organisational survival in rapidly changing 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

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Sport has become increasingly globalised, commercialised and professionalised, and is influenced by advances in technology and innovation. It is now recognised that sport can play an important role in areas such as economic regeneration, diplomacy, social integration and improving health and wellbeing. This unit will develop students' understanding of how to encourage participation and drive growth in sports business in the face of a rapidly changing landscape.

300889.1 Pathological Basis of Disease

Credit Points 10 **Level** 2

Assumed Knowledge

Knowledge of cell structure and function of cellular components (consistent with the unit Cell Biology); Knowledge of biochemical pathways and energy production (consistent with the unit Functional Proteins and Genes).

Prerequisite

300818.1 Introduction to Physiology

Equivalent Units

300323 - Pathological Basis of Disease

Incompatible Units

400138 - Pathophysiology 1

Unit Enrolment Restrictions

Students must be enrolled in 3577 Bachelor of Medical Science, 3657 Bachelor of Medical Science/Bachelor of Information and Communications Technology, 3673 Bachelor of Medical Science, 3682 Bachelor of Medical Science (Advanced), or 3674 Bachelor of Medical Science (Nanotechnology) or 6002 Diploma in Science/Bachelor of Medical Science Note: Enrolment of students in other programs may be approved by the Unit Coordinator for the Summer session, subject to vacancies and meeting equivalent prerequisite knowledge. Please lodge a Rule Waiver request for enrolment.

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Pathology is the study of disease. Students will gain an understanding of human pathogenesis, general and systems pathological processes, and the scientific basis of diagnostic and treatment options. The unit also introduces normal human tissue and organ histology, and examines histopathological changes evident in disease states.

300889.2 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, 301356 - 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.

.....

from 2020 this unit is replaced by 301356 - Pathological Basis of Disease. 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.

301356.1 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, 300889 - 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.

.....

From 2020 this unit replaces 300889 - Pathological Basis of Disease. 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.

200860.1 People, Work and Society

Credit Points 10 **Level** 3

Prerequisite

200300.2 Managing People at Work

Equivalent Units

200616 - Workplace Behaviour, 61441 - Workplace Behaviour

.....

'People, Work and Society' draws on psychology and sociology to deepen participants' practical human resource management (HRM) expertise. Designed for those aiming at careers as HRM professionals, participants will use HRM knowledge to develop policy and procedure that takes account of the psychology of individuals and groups as well as rising expectations for socially-responsible management. The complexities and rewards around managing diverse workforces receive particular attention. Through the challenge of real-world activities, participants are introduced to the difficult judgements that confront HRM professionals around people at work.

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

300196.5 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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In 2022 this unit replaced by 102906 - Personality. 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.

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.

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.

102493.1 Philosophy of History

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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What is History? This question has been an object of inquiry as much for philosophers as for historians themselves. Large historical forces were at work in the Enlightenment—both in the sciences and in politics—and philosophers like Rousseau and Kant sought to understand these movements philosophically. For Rousseau, the lens was genealogical as he worked to produce a "natural history" of politics and society; for Kant, the historical lens was teleological as he narrated instead a philosophical history full of notions of progress and improvement. In the 19th century, philosophers like Hegel and Marx were concerned to think about history as a dialectical movement, while Nietzsche applied Darwin's new theory of evolution to his understanding of history and morals alike. The great shockwaves wrought by the two World Wars of the 20th century brought new philosophical writers to the problem of

history, though now with an eye back toward the seemingly failed vision of inevitable progress so successfully peddled by the Enlightenment. This philosophical tradition and its changing approaches to history will be the focus of this unit.

102582.1 Philosophy of History and Politics

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

.....

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.

102789.1 Philosophy of Race and Racism

Credit Points 10 **Level** 3

Assumed Knowledge

Successful completion of 60 credit points of study in currently enrolled course.

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This unit focuses on philosophical approaches to race and racism. Academic discourse about race sits at the intersection of overlapping research programs taking place in a number of fields including cultural anthropology, the history of science, sociology, political theory,

communication studies, and critical philosophy of race. This unit will draw on discussions from a number of these fields. Students will interrogate the ways in which subjects are racialized, both by culture and by the state. They will analyse major texts concerned with race and racism, and examine and critique the role of ignorance within racist discourse.

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.

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.

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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.

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.

101593.4 Planning the City: Development, Community and Systems

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 80 credit points

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This unit aims to provide students with a fundamental understanding of the role of government, focusing on the role and nature of planning across all levels of government from a variety of theoretical frameworks. It presents a critical examination of the urban development and planning processes, with particular attention given to the environmental and political issues associated with planning at the local government level. It looks at the changes and challenges confronting local government in view of the demands made on them by the changing social and economic conditions and societal values such as those relating to requirements for public participation, transparency and accountability. The unit also examines the role of private sector in planning and assessment processes.

300921.2 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.

101797.2 Political Terror

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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Since the terrorist attacks of 11 September, 2001, threats of terrorism have been entrenched in both headlines and the collective psyche. Across the globe, terrorism, anti-terrorism and the politics of fear are influential factors in the formulation of domestic and foreign policies. The current wave of terror and counter-terror raises important questions. What do we mean by terror? Is the war on terror really a war like no other? Is the current terrorist threat unprecedented? This unit will examine historical precedents and theories of terrorism.

100277.4 Politics of Australia and Asia Relations

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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In this unit students will become familiar with Australian diplomacy and appreciate the range of pressing historical, political and cultural issues that affect Australia's place in the Asia Pacific region. It explores the factors that have shaped Australia's relationships with key countries in the region and considers the vital impact of political actors and their ideological stances. In developing a depth of knowledge on the importance of Australia's regional policies, this unit provides students with the opportunity to be involved in a simulation task dealing with a 'hot topic' for Australia's relations within the Asia Pacific region.

100278.2 Politics of Post-War Japan

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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The unit studies the post-war Japanese political experience: a vanquished country transformed into an economic super power with a 'peace' constitution and now in relative decline. In particular the unit will examine the impact of the dominance of the Liberal Democratic Party on domestic politics and the intersection between domestic political developments and security and foreign policy matters.

100882.3 Politics of Sex and Gender

Credit Points 10 **Level** 2

Equivalent Units

63196 - Sex, Gender and Social Relations

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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This unit provides an introduction to the study of the contemporary politics of sex and gender. Students study key concepts and learn to apply these concepts in the analysis of current issues. Concepts covered include the meanings of sex, gender and sexuality; biology and social constructionism; gendered bodies; doing gender; equality and difference. The concept of intersectionality - how gender intersects in complex relationships of power with other differences such as ethnicity, sexuality, dis/ability and class - is central to this area of study. The unit explores the meaning and potential for social change for a more equitable society and the obstacles to that. Strategies examined range from the use of targets and quotas, to social and cultural activism. Students have the opportunity to explore areas of personal and scholarly interest.

101985.1 Politics, Power and Resistance

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit examines the effects of politics on society and of the social on politics. Politics is understood as a struggle for defining how we live in common with others. We examine how power is attained and maintained and how some ideologies dominate over others to shape opportunities for challenging the status quo. Our focus is the contemporary nation-state in the context of globalisation, increased transnationalism, and shifting balances of power. Key themes include economic and social inequality in the modern state, the colonial power matrix, discipline and punishment, gender and race, and resistance to oppression. Each week will combine theoretical approaches and case-study based 'perspectives' on the topic.

101987.1 Postcolonial Australian Cinema

Credit Points 10 **Level** 3

Equivalent Units

100990 - Cinema, Culture, Memory

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit will examine the role of cinema in forming images of national and cultural identity. The unit will explore the development of Indigenous and postcolonial cinema in Australia. The unit will discuss political debates and issues in postcolonial Australian cinema, and will raise questions about the nature of memory as it is mediated by cinematic experience, the representation of history, and the history of representation of indigenous cultures and peoples. The unit will examine these questions through a study of

postcolonial Australian cinema produced by both Indigenous and non-Indigenous filmmakers.

102434.1 Postcolonial Literatures: Partition, Dependence and Exile

Credit Points 10 **Level** 3

Assumed Knowledge

A basic knowledge of literary forms, techniques, and styles (as acquired in core units for the English major) is desirable as the unit focuses on specific aspects of literary writing.

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit introduces the postcolonial literatures that emerged in the wake of decolonisation in the second half of the twentieth century. We will read literary works from across the postcolonial world, including from the Middle East, South and South-East Asia, Africa, the Caribbean and Australia, and look at the way in which writers contended simultaneously with the legacy of the colonial system and major historical crises that emerged in the wake of its collapse. We will trace the emergence of the postcolonial reality as writers registered the impact of partition, separatism, persistent dependency, and the large-scale movements of people to the first world, whether as migrants or refugees. Alongside the literature, we will read major works of postcolonial theory: one of the most influential intellectual movements in recent history.

300869.2 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.

300197.5 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** Z

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.

102490.1 Pragmatics

Credit Points 10 **Level** 2

Prerequisite

101945.2 Introduction to Linguistics

Equivalent Units

101441 - English Semantics and Pragmatics

Incompatible Units

101947 - Pragmatics

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This is an optional unit of the Linguistics Major which introduces students to pragmatics, the study of language use in context. It combines theoretical elements with practical applications through examples, exercises and authentic data analysis, which enable students to understand the significance of this field of linguistics to language professions, such as interpreting and translation and language teaching.

200525.3 Principles of Economics

Credit Points 10 **Level** 1

Equivalent Units

200076 - Introductory Economics, 200046 - Microeconomics, EC102A - Principles of Economics, 700006 - Principles of Economics (WSTC)

Unit Enrolment Restrictions

External offerings for this unit during Autumn and Spring are only available to students who are enrolled in a Property course or specialisation.

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This unit is an introduction to economic concepts and contemporary economic issues. It introduces students to basic concepts such as markets and their operation, the behaviour of firms, the efficiency and potential failings of markets, the role of government, key macroeconomic problems such as recessions, inflation and unemployment, as well as contemporary fiscal and monetary policies. It illuminates concepts via application to contemporary economic issues and debates over different theoretical

perspectives. This unit also exposes students to recent developments and policy controversies in economics.

300980.2 Principles of Evolution

Credit Points 10 **Level** 2

Prerequisite

300802.1 Biodiversity AND **300816.1** Cell Biology

Special Requirements - Essential Equipment

Students are required to have laboratory coat and covered shoes for practicals

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This unit is designed to impart an understanding of the core concepts in modern evolutionary theory, and an appreciation of the central position it plays in unifying all sub-disciplines of biology. The unit will cover modern synthesis, phylogenetics, phylogeography, origin of variation, genetic drift, natural selection, and coevolution, with a major emphasis on evolutionary mechanisms and analytical techniques.

200964.1 Principles of International Law

Credit Points 10 **Level** 7

Assumed Knowledge

Bachelor of Laws or equivalent qualification

Unit Enrolment Restrictions

Students must be enrolled in courses 8083 Bachelor of Research Studies/Master of Research, 8084/8085 Master of Research, 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.

300979.2 Principles of Zoology

Credit Points 10 **Level** 2

Prerequisite

300802.1 Biodiversity

Special Requirements - Essential Equipment

Students are required to have laboratory coat and safety goggles.

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Explores the diversity of invertebrate and vertebrate life in a phylogenetic context. Taxonomy, anatomy, ecology, ethology and physiology of major groups of animals are examined. Patterns will be examined from an evolutionary perspective and the unit will focus on structure and function to examine specialisations and adaptations of animals to their environment. The unit will use lectures and laboratory sessions to allow an interactive appreciation of the diversity

of biological mechanisms and processes in the Animal Kingdom.

102036.2 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

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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.

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.

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.

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, "AHCPT503 – 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.

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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?

100023.7 Psychology of Language

Credit Points 10 **Level** 3

Assumed Knowledge

Solid understanding of perception, cognitive processes, and experimental design and analysis in psychology and/or a solid understanding of linguistics and research methods in linguistics.

Unit Enrolment Restrictions

Successful completion of 120 credit points.

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This unit acquaints students with major issues in the psychology of language. Through a series of online modules, it examines different approaches to research and theory on questions such as: the acquisition and development of language; the relationship between language and thought; bilingualism and multilingualism; speech perception and production; sign language; reading and writing; the neurophysiological underpinnings of language; patterns of language breakdown and communication disorders; social aspects of language; language in non-human animals. The tutorials take a hands-on approach, where students learn new skills, such as reading and producing phonetic symbols, creating stimuli for use in psycholinguistic research, and analysing children's speech.

101183.4 Psychology: Behavioural Science

Credit Points 10 **Level** 1

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This unit expands on the nature and history of psychology as a scientific discipline by focussing on the study of the biological bases of human behaviour, memory, language and thought, sensation and perception, motivation, emotion and learning. Research methods to scientifically study behaviour are introduced, including ethical research and practice with reference to diverse cultural contexts.

101184.4 Psychology: Human Behaviour

Credit Points 10 **Level** 1

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Psychology is a field of scientific inquiry that uses a set of scientific techniques and methods to explain and understand the causes of behaviour. 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, Australian Indigenous and cross-cultural psychology, personality, and abnormal psychology.

102574.2 Public Health in Complex Emergencies (Advanced)

Credit Points 10 **Level** 7

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The health, socio-economic, and political aspects of conflicts and disasters are complex and multidimensional, requiring political commitment and coordinated and effective prevention. This unit uses critical analyses to provide students with the skills and knowledge required to understand the politics of public health response in emergency situations. Students will be introduced to rapid health assessment protocols in, and health priorities and the prevention of public health effects of, complex emergencies. They will gain practical skills to evaluate and critically appraise the evidence used to inform public health policy and the effectiveness of different decision-making practices in emergency situations.

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

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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.

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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.

300923.2 Quantum Physics

Credit Points 10 **Level** 3

Assumed Knowledge

Mathematics 1A, Mathematics 1B, Physics 1 and Physics 2

Prerequisite

300828.1 Physics 1 AND **300829.1** Physics 2

Equivalent Units

300419 - Quantum Properties of Chemical Systems

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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

102191.1 Queer 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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Queer culture will introduce students to queer theory and provide opportunities to use these theories in the close study of cultural practice and politics. Queer theory counters the idea that people have stable sexes, genders and sexualities. Instead, queer theory argues that the experience of those that are homosexual, bisexual, transgender, and intersex highlight the frequent mismatches in what are taken for granted to be 'normal' experiences of identity. Queer theory demonstrates the

impossibility of a natural or normal sexuality, but it also demonstrates the problem with the terms 'man' and 'woman', 'male' and 'female', 'normal' and 'abnormal'. In Queer culture students will learn about queer theories and have the opportunity to apply these theories to an in-depth and personally engaging study of queer politics and activism; queer media, film and performance; and queer sex, selfhood, and identity trans/formations.

101650.3 Race in Literature

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit explores a selection of modern literary works that focus on the question of "race." Readings will allow students to learn how notions of race have shifted over time, giving particular attention to how mixed-race people challenge dyadic conceptions of racial difference. Readings may include one or more national literatures, such as American or Australian literature.

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.

200037.4 Regression Analysis & Experimental Design

Credit Points 10 **Level** 3

Prerequisite

200033.4 Applied Statistics OR **200052.4** Introduction to Economic Methods

Unit Enrolment Restrictions

Essential Equipment: Scientific calculator and access to a computer with appropriate software.

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From 2016 this unit has been replaced by 301034 Predictive Modelling. This unit covers regression analysis and experimental design. The regression section of the unit develops the theory and application of one of the most

commonly used statistical tools: regression analysis. Topics covered include simple linear regression, multiple regression, and model diagnostics and selection. The experimental design section deals with completely randomized design, randomized block design, Latin square design, and factorial experiment models. Such design models are useful for applications in engineering and physical sciences and in the business and behavioural disciplines.

101992.1 Religion and the Emergence of Modern Politics

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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In 2021, this unit replaced by 102814 - History of the Ancient World. The period from the early 1500s to the mid 1800s saw the transformation of religious culture and personal religiosity across much of Europe and America. The same period saw the emergence of the modern state system, a re-definition of the state-church and secular-religious divides, and the creation of modern political ideals of equal rights under the law, as well as the modern 'secular religion' of socialism. This unit investigates these parallel movements in Western culture, which altered the understandings both of politics and religion, and the relationships between them.

102002.1 Religion and the Origins of Modern Science

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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Between about 1450 and 1700 Europe witnessed a fundamental transformation in the pursuit of natural knowledge which gave birth to what we now call modern science. The aim of this unit is to introduce students to the issues surrounding the study of the Scientific Revolution, particularly those concerning the influence of religion. How was the study of nature pursued before this historical moment? What was the influence of the Protestant Reformation upon the emergence of modern science? Students will also be introduced to the historiographic debates surrounding the validity and usefulness of the term 'Scientific Revolution'.

101005.4 Representing Crime

Credit Points 10 **Level** 3

Equivalent Units

SS233A - Representing Crime.

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

This unit deals with the evolution of the figure of the detective and of the criminal; the development of an aesthetics of crime from the later 18th Century; the dynamic nature of fiction, film and television genres of detection. Literatures of sensation, detective fictions, true crime writing and the non-fiction novel will all be examined to allow an in-depth analysis of the changing ethical and psychological character of the detective, and of his nemeses. The crime story in film, television and in other new media may also be addressed to facilitate an analysis of changing cultural contexts for the crime story.

101917.1 Representing Everyday Life in Literary and Visual Cultures

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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This unit explores how the realm of everyday life has been imagined and represented in a range of literary traditions and visual and media cultures. It examines what we understand by this concept, realist and experimental approaches to its representation, and how everyday life is shaped by various historical, social and cultural factors (e.g. technology, gender, class, war). With a focus on modern and contemporary texts and contexts, students will study primary works in relation to key theories of the everyday. Possible topics include: Victorian realism, Surrealism, stream of consciousness narration, social documentary photography, social realist cinema, postmodern narrative, blogs.

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.

301387.1 Research Preparation in Post Graduate Studies

Credit Points 10 **Level** 7

Equivalent Units

301004 - Research Preparation in Post Graduate Studies

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.

From 1H 2022 this unit replaced by 800240 Knowledge Journeys. 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.

800218.2 Researcher Development 1: Reading, Writing, and the Business of Research

Credit Points 10 **Level** 4

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).

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.

800220.3 Researcher Development 2: Proposing and Justifying Research

Credit Points 10 **Level** 4

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 (& MICTRES/8112) Master of Information and Communications Technology (Research), 1870 Master of Chinese Cultural Relations or 1883 Master of Cross-cultural Relations or 3761 Master of Architecture (Urban Transformation)

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.

101906.2 Researching Culture

Credit Points 10 **Level** 2

Prerequisite

100897.2 Everyday Life OR **101979.1** Understanding Visual Culture

Unit Enrolment Restrictions

Successful completion of 40 credit points including one of the pre-requisite units shown above.

This unit introduces students to the diverse field of cultural research. It outlines and explains qualitative research methods and methodologies used by cultural researchers. Tutorials and assessment tasks involve 'hands-on' activities designed to familiarise students with the research process and research practices that explore taken-for-granted aspects of everyday life such as interviews, focus groups and observation based research; as well as sensory research, the use of diary methods, and the critically important ethical dimensions of social and cultural research. Through completion of this unit, students will gain critical literacies in creating and analysing a range of qualitative data.

800195.2 Researching our Changing Environment

Credit Points 10 **Level** 4

Unit Enrolment Restrictions

Students must be enrolled in course 8083 Bachelor of Research Studies/Master of Research

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This unit focuses on learning to critically evaluate current research in topics under study at the Hawkesbury Institute for the Environment and how advanced scholarship in your field of study is conducted. The Hawkesbury Institute for the Environment spans a broad set of fields from soil microbial genomics and microbial ecology to the biogeochemistry, ecology and physiology of plants and microbes, animal ecology and evolution, to ecosystems, landscapes and Australia-wide processes. Teaching sessions are designed around a thematic cross-section of research within HIE, representing many of these areas. The unit also involves enhancing skill in evaluating appropriate research methodologies for asking questions and testing hypotheses, including an introduction to some of the large-scale research facilities within HIE that students may be involved with.

800216.1 Researching Post-Capitalist Possibilities (PhD Summer School)

Credit Points 10 **Level** 7

Assumed Knowledge

Students should have a working understanding of their disciplinary field at graduate level and familiarity with different social theoretical and methodological traditions in order to get maximum course benefit.

Unit Enrolment Restrictions

Students must be enrolled in a Masters by research or PhD and must obtain permission from the Unit Coordinator to enrol in the unit.

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Researching Post-Capitalist Possibilities offers HDR students the opportunity to explore how the humanities and social sciences can play a role in making other worlds possible. It develops the thinking capacities we need as scholars to shape the world and reviews the ethical responsibilities that come with this work. It offers an opportunity to work with scholar members of the Community Economies Collective within the Institute for Culture and Society (ICS) who have been thinking outside

or beyond capitalist relations since the publication of J.K. Gibson-Graham's *The End of Capitalism (As We Knew It)* in 1996.

300810.2 Resource Sustainability

Credit Points 10 **Level** 1

Assumed Knowledge

Basic biological science and an understanding of referencing

Equivalent Units

300663 - Resource Sustainability, 700099 - Resource Sustainability (WSTC)

Special Requirements - Essential Equipment

Enclosed footwear

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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.

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 Revaluing Indigenous Economics (Day Mode)

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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Revaluing Indigenous Economics will examine Australia's Indigenous economy and its dynamics. It will challenge students to reflect on the significant contribution Indigenous Australians have made and continue to make to our

growing economy. It will also challenge students to rethink the politics of the welfare economy as it relates to Indigenous Australians. Students will be introduced to a number of enterprise development case studies for example, The Arts, Mining and Land Development, Tourism and the Environment, Sports and Small Business.

200739.2 Reward and Performance Management

Credit Points 10 **Level** 3

Prerequisite

200300.2 Managing People at Work

Incompatible Units

200611 - Management of Employee Performance, 200612 - Remuneration Theory and Practice

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'Reward and Performance Management' introduces students to critical perspectives in reward management. Through case studies students consider the wider context in which reward strategies are devised and the strategic decisions that arise if reward is to meet regulatory requirements, organisation objectives and the expectations of the workforce. Students examine the component parts of contemporary reward and critically assess the relationship between performance and reward. Through engagement with different types of performance management systems, students identify and assess contrasting approaches to performance management.

401085.2 Scholarship for Practice Change in Health Care

Credit Points 10 **Level** 7

Equivalent Units

400807 - Transforming Nursing Practice

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Special Requirements - Essential Equipment

Students must have access to the internet and a computer.

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The transformation of practice in healthcare is facilitated when information about creative and innovative practice change and development is documented, disseminated and critiqued through professional channels such as peer reviewed journals, conference papers, discussion papers or project reports. In this unit students will be provided with an opportunity to produce a scholarly piece of work that will disseminate information about transforming practice and improving patient care. The unit aims to enhance scholarly communication skills, provide a vehicle for demonstrating leadership by informing the health professions of innovative solutions for practice change.

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.

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.

101451.2 Second Language Acquisition

Credit Points 10 **Level** 3

Equivalent Units

A1081 - Second Language Acquisition

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This unit is designed for students who are interested in understanding how a second language is learned. It examines learning in both natural or classroom contexts as

well as language development in child and adult learners. Students are introduced to current theories of Second Language Acquisition, as well as current research and its applications to the classroom or the translation process. Students will conduct a small research project to become familiar with the process of learning a second language and some basic research notions and techniques.

200921.1 Security Analysis and Business Valuation

Credit Points 10 **Level** 3

Assumed Knowledge

Knowledge acquired in the corporate financial management and fundamentals of accounting.

Prerequisite

200488.3 Corporate Financial Management

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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.

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)).

102788.1 Self and Society

Credit Points 10 **Level** 2

Incompatible Units

101330 - Self and Society

Unit Enrolment Restrictions

Successful completion of 80 credit points.

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This core theory unit for sociology majors introduces students to traditional and contemporary debates in social thought and provides tools for sociological analysis. The unit outlines the development of sociological thought in the context of changing social realities and relations between the individual and society, with a particular focus on the formation of the Self. A number of theorists and theoretical areas are addressed, spanning over 150 years of evolving sociological analysis. This enables students to better grasp the relation between theory and application, the diversity of sociological analysis, as well as providing the capacity to think across a number of different sociological schools of thought.

200898.3 Seminal Papers in Business

Credit Points 10 **Level** 4

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.

200991.2 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, 201084 - Customer Insights

Unit Enrolment Restrictions

Only students enrolled in the MT2035 Hospitality Management or MT2036 Sport Management can enrol in this unit.

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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 historical, intellectual, publishing and cultural contexts, with particular emphasis on the multiple genres of writing within which women engaged in the nineteenth century. Using a broad range of short fiction, this unit will investigate topics such as gender and sexuality, colonialism and empire, and race and identity. It will also explore texts from across Australia, Britain, North America and Ireland and ask students to consider how these texts are 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.

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.

63178.2 Social and Political Developments in Contemporary China

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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In 2021 this unit replaced by 102842 - History of the People's Republic of China. This unit is concerned with developments in China since the establishment of the People's Republic in 1949. It will focus on the post-1976 period, which saw the adoption and implementation of an "open-door" policy and the launch of the "Four Modernisations". Due attention, however, will also be paid to the history and politics of the 1950s and 1960s as backgrounds. The unit will be issue-oriented, exploring a whole range of social and political issues that will have a bearing on China's future as a potential world power in the twenty-first century.

300961.4 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.

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 Australian 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.

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.

101450.2 Sociolinguistics

Credit Points 10 **Level** 3

Equivalent Units

A1080 - Sociolinguistics

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This unit is designed to develop students' interest in language and society and give them an understanding and appreciation of variation in language (accents, dialects) and language change, language planning, as well as the interdependent relationship between language learning, communicative competence and cultural practices, both in the Australian context and also in a more global context. It also aims to show students how this unit fits in with other language and linguistics-related disciplines, e.g. Linguistics, Bilingualism and Biculturalism, Second Language Acquisition.

101359.7 Sociology of Religion

Credit Points 10 **Level** 3

Equivalent Units

Unit B3967 - Sociology of Religion

Unit Enrolment Restrictions

Successful completion of 80 credit points of study.

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In this unit some of the main sociological approaches to the study of religion will be considered. The unit will be orientated particularly to the tension between religion and social theory in the evolution of sociological thought. It addresses the impact of religion and religious bodies on Australian society and politics. The unit will focus on the relation of theory and practice, on the research of contemporary religious practice, and on the contemporary relevance of major theorists in the sociology of religion. It will address issues such as Buddhism, Fundamentalism(s), gender in religion, globalisation, Islam, modernity/post modernity, neo-paganism, networks in spiritualities, New Age, popular culture, and new religious movements.

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.

301248.3 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.

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.

301002.3 Specialised Software Applications

Credit Points 10 **Level** 7

Equivalent Units

300513 - Engineering Software Applications

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course. Please note: Students enrolled in 3693 Master of Engineering must select the campus offering, not the online mode.

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This unit offers several streams of practical applications in engineering and industrial design software. Students get to choose a software application stream depending on their key program. Lectures and assignments are delivered online and are enhanced by face to face contact with stream coordinators. Emphasis is placed on teaching students practical software applications skills relevant to industry needs.

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.

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

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.

401176.1 Statistical Methods in Epidemiology

Credit Points 10 **Level** 7

Assumed Knowledge

High school mathematics (arithmetic, formulas and algebra, reading graphs)

Prerequisite

401077.1 Introduction to Biostatistics

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

Statistical ideas are integral to the conceptual basis of epidemiology and provide the tools needed to interpret epidemiological information and conduct epidemiological studies. Most professions in the health sciences need to be able to read and interpret statistics relating to individual and population health status and health risks, and to identify appropriate statistical methods to evaluate interventions, health policies and programs. Many public health practitioners are actively involved in surveillance, quantitative research and/or evaluation. This unit aims to support students to reach a level of proficiency in the selection of appropriate statistical methods to address specific research questions with a given dataset, conduct the selected analysis, interpret the results appropriately and draw valid and insightful conclusions about the research question.

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.

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)

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.

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 customer experience, marketing communications and consumer insights.

Prerequisite

200083.3 Marketing Principles

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Customer-centric marketing strategies are vital to capturing competitive advantage and sustaining business success. This unit explores the core concepts and tools of contemporary strategic marketing management. The unit focuses on the skills and framework to develop and manage an integrated marketing strategy that creates value for customers and generates growth for the firm in both online and offline environments. Using a marketing simulation, the unit provides the students the opportunity to make a series of complex, real-world marketing decisions in a competitive environment.

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.

101948.4 Structure of Language

Credit Points 10 **Level** 2

Assumed Knowledge

Basic knowledge of linguistics, phonetics and phonology

Corequisite

101945.2 Introduction to Linguistics AND 102042.1 The Sound of Language

Equivalent Units

101455 - The Structure of English

Unit Enrolment Restrictions

Successful completion of 40 credit points.

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This unit aims to equip students with knowledge about the structural aspects of language. Students will learn to describe, analyse and reflect on the structure and meaning of linguistic elements from word to sentence level. Using examples from different languages, including Australian Indigenous languages and other languages spoken in Australia, this unit will provide students with an understanding of how structure and meaning are connected, how they link up with other areas of linguistics, and how research in this field is relevant to the linguistic ecology of Australia.

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.

102187.1 Sultans, Colonists and Nationalists: Indonesia C1200-1942

Credit Points 10 **Level** 3

Incompatible Units

101972 - The History of Modern Indonesia

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit examines the historical background of Indonesia's struggle to attain independent nationhood. Emphasis will be placed on social, cultural and political factors that shaped Indonesia prior to 1942, encompassing the classical period of the Hindu-Buddhist kingdoms, the rise of the early modern Islamic sultanates, the first encounters between Europeans and the peoples of the 'Malay world', the emergence of the Dutch East India Company (VOC) as a dominant force in the region, the subsequent imposition of the Dutch colonial rule, and, most significantly, the development of modern Indonesian nationalism.

300939.4 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.

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.

101569.3 Sustainable Futures

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 80 credit points.

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In this unit we will explore the questions 'can we create a sustainable society? If so what would it look like and how could it be done; is it possible to live ethically with each other and the planet?' While major contemporary theoretical concepts will be explored the emphasis is on developing sustainable alternatives to the way we now live both locally and globally. Particular attention will be paid to thinking ecologically, postcolonial development and issues of race and gender.

301003.3 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.

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.

700173.2 Tertiary Study Skills in Science (WSTC Prep)

Credit Points 0 **Level** Z

Unit Enrolment Restrictions

Students must be enrolled at Western Sydney University, The College.

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This unit is designed to assist students to become successful independent reflective learners. It introduces students to a range of theories and concepts to facilitate the development of practical skills and personal attitudes necessary for success in tertiary study and beyond.

102477.1 TESOL Curriculum Design

Credit Points 10 **Level** 3

Assumed Knowledge

Sufficient knowledge about teaching international English and English language teaching methodology

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This unit explores issues, approaches and stages in the TESOL curriculum design process within a range of contexts. It assists students to identify and implement effective strategies for planning, designing and evaluating language learning programs relevant to the needs of the learners and the contexts of learning.

102474.1 TESOL Teaching Methodology

Credit Points 10 **Level** 2

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This unit focuses on the process of teaching English as a foreign/second language. It aims to give students in the field of TESOL knowledge, skills and strategies in teaching such as choosing teaching approaches, selecting and sequencing language content, managing classrooms, evaluating and designing teaching and learning resources for a wide range of learner levels and types. The unit also aims to develop skills of critical reflection, action research and evaluation of their own practice for potential teachers.

100968.3 Texts and Traditions

Credit Points 10 **Level** 1

Equivalent Units

700133 - Texts and Traditions (WSTC), 102737 - Thinking Critically About Texts and Society, 700293 - Thinking Critically About Texts and Society (WSTC)

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In 2020 this unit replaced by 102737 - Thinking Critically About Texts and Society. This unit introduces students to selected modern literature and philosophy of the Western tradition. Focusing on primary texts, the unit offers a critical appreciation of major intellectual, social, and aesthetic changes, understood as crucial elements in the shaping of Western modernity from the Enlightenment forward. The unit follows major concepts or themes, which students will study through their different cultural representations. Tensions, contradictions, and oppositions that these

themes have engendered will also be examined. Students will gain an appreciation of major texts, aesthetic styles, and ways of thinking about the world and human experience, which have been central to modernity.

200993.2 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

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The Accommodation Industry is concerned with developing skills for managing people, operations and business in hotels and hospitality companies. It focuses on the business operations and management issues to be found in successful lodging enterprises. The unit incorporates the application of key aspects of marketing, service management, financial management, revenue management and business development within a hospitality context. It develops effective problem solving and critical thinking skills necessary to meet the service industry's ever-changing needs. Students can expect to find employment in a range of domestic and international accommodation management facilities such as hotels, resort groups, cruise ships and the accommodation sector.

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.

101009.4 The Body in Culture

Credit Points 10 **Level** 3

Equivalent Units

SS224A - Gender, Culture and the Body, 100286 - The Body in Culture

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit introduces students to key theorists, concepts, and debates in socio-cultural studies of embodiment. The first module introduces the field of study and explores influential perspectives on bodies as biocultural and social. The unit explores topics such as the social brain, culture and the senses, the modern 'civilised' body, sexed and racialised bodies, ableism and bodily diversity. It will demonstrate how even colonialism, multiculturalism and

socio-economic inequalities are lived on the skin, in the body and through the senses. The second module explores current debates and body politics and the content is determined in collaboration with enrolled students. The topics can be as diverse as digital self-tracking; 'fat wars'; race and cosmetic surgery; bodies as commodities, and; sexual difference and sport.

102207.1 The Brain and Learning

Credit Points 10 **Level** 3

Equivalent Units

101662 - Young People, Their Futures and Education

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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.

101591.3 The Economics of Cities and Regions

Credit Points 10 **Level** 2

Equivalent Units

101298 - Urban Development Resource Allocation

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'Economics of cities and regions' introduces the major political-economic issues facing cities and regions. Class discussions investigate how political-economic forces (such as globalisation, structural change etc) shape the development of cities and regions. Class activities enable students to apply economic principles to urban and regional planning and policy decisions, and teach students to analyse the social and distributional impacts of policy and planning decisions.

101867.2 The Ethical Life

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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This unit introduces students to time-honoured ethical questions and controversies. The issues to be examined point to questions that students are likely to face at some stage during their lives: Is death always a bad thing? Is abortion immoral? Are we obligated to give to charity? Should we be vegetarian? Should you have sex outside of a committed relationship? Is ethics founded upon religion, reason or community standards? As well as examining specific issues, students will be introduced to the leading secular and theistic ethical theories.

102507.1 The Gothic

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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This unit examines the emergence and development of Gothic literature in English. It studies the rise of Gothic fiction in the late-eighteenth century, and the evolution of Gothic genres in the nineteenth and twentieth centuries. Students will examine key works of Gothic poetry and narrative fiction – such as vampire narratives – in order to consider the social, political and intellectual contexts for Gothic literature. The unit considers how Gothic forms negotiate cultural anxieties, such as those involving race, gender, sexuality, religion, scientific development and class. Set texts from the twentieth century onwards may include works from television, theatre and film.

101782.2 The History and Politics of Contemporary Central Asia

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit will introduce students to the contemporary history and politics of Central Asia. With the collapse of the Soviet Union, the region of Central Asia (encompassing Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, and Uzbekistan) has reclaimed its importance as a political, economic, and cultural region. Located in a key geo-strategic position between Russia, China, South Asia, and Iran, and with extensive natural resources (especially oil and gas), the region has attracted significant policy and popular attention. The aim of this unit is to introduce students to key domestic and regional issues affecting Central Asia. The unit will look at the historical legacy of Russian and Soviet regimes, the broad effects of post-Soviet independence, the politics and economics of state-

building, and the roles played by international actors and organizations. The unit will also examine how government efforts to build states, nations, and economies historically and recently have influenced societal institutions, such as Islam, community groups, and gender relations.

102491.1 The History of Southeast Asia

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit introduces students to the history of Southeast Asia, and to the major ideas and debates pertaining to the historical development of Southeast Asia as an important and distinctive world region in its own right. The course will examine the historical, cultural and religious factors that have shaped Southeast Asian societies, from antiquity to the modern era. Key topics include the origins and characteristics of early civilisations, traditional patterns of state formation, global trade networks and European imperialism, popular resistance and the nationalist challenge to the colonial order, decolonisation in Cold War Southeast Asia, and nation-building in the twentieth century.

102584.1 The Image of Thought: Art, Film and Philosophy

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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Working on the assumption that art is capable of exploring philosophical issues in its own right, the unit considers how various arts from poetry to contemporary film help shape our understanding of things like metaphysics, epistemology, ethics and morality.

101783.2 The International Relations of the Middle East Since 1945

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit offers a historical study of the international relations of the Middle East from 1945 to the present. It examines the relations of Middle Eastern states to global structures of power; the pattern of relations between regional states; the causes of regional wars and international co-operation; the impact of domestic factors on the foreign policy of states; the importance of oil to international politics and the global economy; and the role of ideologies and non-state forces in international relations and between states in the Middle East.

101757.2 The Making of the 'Aborigines'

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit is available to all undergraduate students who have open electives. The Making of the 'Aborigines' explores the complex human relations and historical forces that have constructed Australia's indigenous people as 'Aboriginal' and/or 'Torres Strait Islander'. It will involve a critical examination of a range of contemporary social and political issues impacting on and being engaged by Indigenous people. A more comprehensive understanding of the position of Indigenous people in contemporary Australian society will enable students to engage more effectively with Indigenous people.

200098.4 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.

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.

102005.1 The Politics of Civilisation

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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What is civilisation? What are civilisations? What does it mean to be civilised? What does it mean to be uncivilised, barbaric or savage? These are some of the key questions explored in this unit. We will investigate the normative demands of civilisation, from 16th Century European colonial 'civilising missions' to the 21st Century global war on terror. We will explore the history of relations between civilisations in light of the 'clash of civilisations' thesis, including relations between the Western and Islamic worlds. We will discover the power of ideas and the influence they can have on real world policy-making.

101911.2 The Qur'an: An Introduction

Credit Points 10 **Level** 2

Prerequisite

101462.2 Understanding Islam and Muslim Societies

Equivalent Units

101464 - Great Texts of Islam: Qur'an and Hadith

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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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.

101990.1 The Racial State

Credit Points 10 **Level** 2

Equivalent Units

100273 - New Ethnicities, Old Racisms

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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Racism is often thought of as both primordial and pathological. Racist states, such as Apartheid South Africa or Nazi Germany, are usually considered to be exceptions rather than the rule and mainly a thing of the past. This unit examines the ways in which, despite the challenge to racism, race remains a fundamental organising idea in modern western states, one that has a direct affect on our everyday realities. We will examine how race is reproduced through politics, culture, socialisation and economic structures. We will consider the effects this has on individual and societal lived experience in complex post-immigration, postcolonial societies.

200915.3 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.

102042.1 The Sound of Language

Credit Points 10 **Level** 1

Incompatible Units

101873 - The Sound of Language

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The richness of information conveyed through spoken language owes its form to the combination and recombination of a small number of sounds. In this unit, students will learn the sounds of the world's languages (phonetics) and the ways in which they are combined to build words (phonology). Examples will be drawn from English, Australian Aboriginal languages, and a diverse range of languages spoken around the world. The unit includes an overview of Australian English phonetics and phonology.

101880.1 The Space of Literature

Credit Points 10 **Level** 3

Assumed Knowledge

An idea of the genre of the English novel and a history of imperialism.

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit considers philosophies of writing by 'drilling down' through the work of one philosopher or through a survey of philosophers. Philosophies of writing are found in the thinking of the Sophists, Classical Greek philosophy, Continental philosophy, as well as in the work of philosophers of new media. The focus upon philosophies of writing is to develop student's understanding of the pragmatic and performative nature of writing and with that the question of ethics in relation to creative writing. These are important concepts to advanced literary theory inquiry and will be tackled in this unit in depth.

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

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.

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.

101913.2 Theories of Authority

Credit Points 10 **Level** 3

Equivalent Units

101665 - Politics and Religion

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

The unit will trace the idea of authority in the West back to its genesis in Ancient Greece and track its development in modern thought. The aim is to demonstrate the variegated relation between power, law and revolution by closely examining a wide array of texts in a variety of disciplinary fields, including literature.

100969.2 Theories of Conflict and Violence

Credit Points 10 **Level** 3

Equivalent Units

100288 - Theories of Violence and Conflict

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

Why do humans kill? What is the nature of war? This course is a selection of different established theories offering explanations of human violence and social conflict. Both theories of individual violence and aggression, and collective conflict are studied to give students a perspective on the forces behind these phenomena. Theories from politics, philosophy, psychoanalysis, sociobiology, sociology, and cultural studies are introduced to exemplify the classic positions and lines of reasoning. These are used to question and explain current forms of violence and conflict, and to give students better understanding of the issues behind attempts to forestall, manage or end conflict.

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.

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This Unit covers basic concepts of data centric thinking. The main areas discussed are; Populations and Samples; Sampling concepts; Types of Data; Descriptive Methods; Estimation and Inference; Modelling. The Unit takes a computational and nonparametric approach, before briefly discussing theoretical concepts and distribution theory.

101989.1 Thinking Cinema

Credit Points 10 **Level** 2

Equivalent Units

101856 - Film and Philosophy

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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Through close examinations of key philosophical and theoretical writings on film, this unit considers the many ways in which cinema has been 'thought' throughout its short history. Incorporating ontological, phenomenological, psychoanalytic, poststructuralist, cognitivist and other approaches, the unit explores the ways in which key philosophical and theoretical concepts have been taken up and addressed by film, in addition to considering the ways in which cinema can be seen to 'think' for itself.

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?'.
.....

200038.3 Time Series and Forecasting

Credit Points 10 **Level** 3

Prerequisite

[200033.4](#) Applied Statistics

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From 2016 this unit has been replaced by 301035 Environmental Informatics. This unit is an introduction to the statistical theory and practice of Time Series Analysis. A time series is an ordered sequence of observations through time. The unit is designed to provide students with the basic techniques in time series analysis: model

identification, parameter estimation, diagnostic checking and prediction of future values. Emphasis in this unit is on practice, the applications of time series analysis in economics, finance, engineering and scientific research. Statistical computing packages are used.

300819.2 Topics in Physiology

Credit Points 10 **Level** 3

Prerequisite

[300818.1](#) Introduction to Physiology OR [300838.1](#) Comparative Physiology OR [300851.1](#) Advanced Physiology

Equivalent Units

300756 - Topics in Physiology

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This unit builds on the physiological concepts of "Introduction to Physiology". It provides a greater depth and breadth of understanding of aspects of whole-body physiology which are explored in group work. Topics may include, but are not limited to, locomotion, physiology of reproductive technology, physiology of interaction between humans, physiology under extreme conditions (including pathophysiology), physiology of learning and memory, sleep physiology, animal physiology, nutritional physiology and others.

102383.1 Topics in the History of Philosophy

Credit Points 20 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

.....
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.

101848.1 Transnationalism and Migration

Credit Points 10 **Level** 3

Equivalent Units

101687 - Transnational Migration

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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In 2021 this unit replaced by 102862 - Migration and Social Change. This unit discusses theories of migration, transnationalism, globalisation, diaspora and identity. We examine the experience of migration and settlement, and the transnational cultural forms that emerge in this process. We investigate the role of new means of communication such as the internet in connecting migrants and the homeland. We also analyse how religion supports migrants in the process of homebuilding. Finally, this unit also discusses the descendants of migrant who have 'returned'

to the homeland after living abroad for generations. Do they become minorities in their ancestral homeland despite their presumed ethnic similarities with the host population?

101645.3 Transport, Access and Equity

Credit Points 10 **Level** 3

Equivalent Units

400342 - Transport, Access and Equity

Unit Enrolment Restrictions

Successful completion of 80 credit points.

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This unit examines the equity and efficiency issues in the provision of transport in cities and regions from a critical social science perspective. Issues of transport disadvantage and policy and planning responses to improve access to urban services are examined. The social and environmental impact of transport systems are considered in the context of urban management.

101983.1 Truth and Knowledge

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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Attaining knowledge and defining truth are fundamental concerns for all university studies. Philosophy has a long history of explaining what constitutes truth, and how we know what counts as legitimate knowledge. This unit introduces students to the most important conceptions of truth and knowledge, and explains the fundamental methods of reasoning and testing knowledge claims established through the Western philosophical tradition. It should be useful to both students specialising in philosophy, and those interested in discovering more about how knowledge is justified and standards of truth established.

101999.1 Twentieth Century Australia

Credit Points 10 **Level** 3

Equivalent Units

100986 - Australian History since 1860 - 1920, 100987 - Australian History since 1920

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This survey unit provides an overview of major events in Australian political, cultural and social history of the twentieth century. The unit will examine key events such as World Wars and the Great Depression, but will also discuss broader changes that affected Australians, black and white, male and female, rich and poor. In doing so, it will examine some of the ideas and political movements that dominated twentieth century Australia, including class politics, feminism, imperial loyalty, indigenous politics, nationalism, racism and sectarianism.

101798.2 Understanding Freedom

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points

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"Understanding Freedom" consists of a close analysis of major theories of freedom from ancient times to the contemporary world. It explores the relation between freedom and imprisonment, freedom and politics, freedom and the everyday, as well as the way that freedom informs the production of culture.

300812.2 Understanding Landscape

Credit Points 10 **Level** 1

Equivalent Units

300642 - Understanding Landscape, HT103A - Understanding Landscape

Special Requirements - Essential Equipment

Enclosed footwear

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This unit explores the historical and cultural perceptions and perspectives of the term 'landscape' and the sustainability and management of landscapes. Students become familiar with the terminology and concepts surrounding the natural landscape experientially through a series of field trips and develop an awareness and appreciation of both of the conceptual and actual landscape issues. Skills in mapping and spatial awareness skills and technologies will be developed through field trips and workshop sessions including GIS. Such skills will assist in developing a capacity to comprehensively describe and analyse the landscape.

101731.3 Understanding Power

Credit Points 10 **Level** 3

Equivalent Units

100970 - Understanding Power

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit aims to explore contemporary understandings of power and its various manifestations in the modern world. Numerous themes are considered including informal and formal mechanisms of power, the uses and abuses of power, resistance, plus various examples of "powered" sites. The unit examines the relation between power, violence and the state. The unit concentrates on a few, influential theorists of power. Particular attention is paid to how power has an impact on the production of culture.

102601.1 Understanding Race

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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What is race? What is racism? How are they related? Why do they continue to shape social, political and economic relations well after the biological concept of race was disproven? What are the links between race and colonialism and in Australia particularly, the invasion and settlement of Aboriginal land? How is race related to property? How do ideas of race become embedded in state institutions and why do they continue to shape disadvantage and inequality? Though race develops differently in different contexts, it is best thought about through relational readings that draw out both the differences but also the similarities between places and times. This unit will draw on race critical and decolonial texts to focus on race as a modern idea that is shaped in the contexts of colonialism, slavery, and persists in post-immigration multicultural societies.

101979.1 Understanding Visual Culture

Credit Points 10 **Level** 1

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Visual media are a major feature of everyday life in contemporary society. The circulation of images shapes our sense of who we are individually and collectively; how we move through the world; and the possibilities that exist for enacting social change. This unit introduces students to the histories and theories of visual culture, from painting and photography, through cinema and television, to digital media, including social media and user-generated content. Students will gain practical skills in analyzing visual and audiovisual texts as well as a comprehensive understanding of the role of visual culture in the production and maintenance of power relations. These skills are crucial to engaging critically with contemporary culture.

101866.1 United States Government and Politics

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit provides an overview of the major institutions and branches of the United States government. It draws attention to the interaction between the ideas that have been articulated by American social and political movements, and the institutions and goals of the American government as they have unfolded over time.

300860.2 Urban Environment

Credit Points 10 **Level** 3

Equivalent Units

300789 - Urban Environment

Incompatible Units

LW212A - Environmental Health Law; 300471 - Urban Development Systems; 300704 - Healthy Built Environments

Unit Enrolment Restrictions

Successful completion of 120 credit points

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This unit explores the relationships between community, the natural environment and government within an urban context through considering how housing and urban development can influence population health. Concepts explored include "healthy housing", "active living" "safety by design" and "energy efficiency". Through a combination of case studies and practical field experience, students will develop the skills and knowledge appropriate to assessing the "healthiness" and sustainability of urban environments. The unit examines methods of construction and building regulation aimed at the preservation of health and amenity.

100291.5 Urban Life/Urban Culture

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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Big cities can be frantic, difficult, polluted and often dangerous places in which to live. Yet cities also contain possibilities for social and cultural stimulation not available elsewhere. This unit traces the origins and development of modern cities in all of their complexity. It looks at how industrial cities emerged in Europe and Australia, and at the threat that uncontrolled urban growth posed to social order. We examine the conditions of urban life that promote alienation and anonymity, and how people overcome social fragmentation. There is discussion of modern cities - from those that sprawl, like Sydney, to the relatively compact and dense centres of Europe, the north-eastern United States and Asia. We look at the gendered nature of public space, and how class and ethnic tensions are played out in cities. Students read a range of texts on urban culture and society. These include classic works by writers like Friedrich Engels, George Simmel and Walter Benjamin, to the contemporary work of David Harvey, Richard Sennet and Mike Davis.

101314.4 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.

300861.2 Vertebrate Biodiversity

Credit Points 10 **Level** 3

Prerequisite

300802.1 Biodiversity

Equivalent Units

300217 - Animal Form & Function; 300470 - Vertebrate Biodiversity

Special Requirements - Essential Equipment

A laboratory coat, glasses and fully enclosed shoes are required for practical sessions in the laboratory. Field-based practical work requires appropriate clothing and enclosed shoes. Students require use of a computer with access to the Internet and software allowing word processing, data processing and statistical analysis and graphical representation.

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This unit examines the functional ecology and diversity of vertebrate animals (fish, amphibians, reptiles, birds and mammals). It takes an integrative approach, combining anatomy, physiology, ecology and behaviour, to explain how vertebrates survive and reproduce in relation to their environment. We will uncover the evolutionary relationships among vertebrate groups, and examine their adaptations to different environmental challenges. The unit also explores patterns in vertebrate diversity, with a focus on Australian ecosystems. Students will apply their knowledge of the scientific method to design and conduct their own research project to investigate how environmental factors influence vertebrate animal abundance and diversity.

101898.1 Violence in Everyday Life

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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The unit provides an overview of the 'dark side' of human society and culture - violence. It examines how violence shapes, threatens and informs aspects of everyday life at home, work, school, the sports field and the street. Through a series of structured learning activities students engage with a range of documents and images to explore practices and experiences of violence. The role of institutions like the state, churches and sporting bodies in regulating violence will be considered. Students will gain skills in understanding the cultural milieu of marginal groups, languages of power and the emotions of excitement, fear and terror produced by acts of violence, skills useful for effective functioning in the workplace and family. The unit provides skills for honours level research in social and cultural analysis, law

and legal studies, criminology, and history and political thought.

102423.1 War

Credit Points 10 **Level** 3

Incompatible Units

101871 - War

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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Have you ever wondered what war is good for? Edwin Starr thought it was good for "absolutely nothing." This unit will take you on an intellectual journey, around the globe and across history, as you reach your own answer to this question. You will evaluate the norms associated with war as well as the experiences of warriors from ancient through modern times. You will assess the role of militias, armies, navies, and air forces in the broad sweep of history. You will consider nuclear weaponry, terrorism, guerrilla warfare, just war theory, as well as anti-war movements.

101993.1 War and Society in the Twentieth Century

Credit Points 10 **Level** 3

Equivalent Units

100293 - War and Society: 20th Century Australia

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit explores the social and cultural history of warfare in the twentieth century, with a particular emphasis on the experience of 'ordinary' men and women during the First and Second World Wars. Drawing on case studies and scholarship from Australia, Britain and the United States, students will examine a diverse range of topics and themes, including the politics of gender, class and race in wartime.

102142.1 Warlords, Artists and Emperors: Power and Authority in Japanese History

Credit Points 10 **Level** 3

Equivalent Units

100294 - Warlords, Artists and Emperors: Power and Authority in Premodern Japan

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit examines the key institutions and events of Japanese history that have given shape to the modern nation and its distinctive cultural identity. What is the traditional significance of the Emperor and how does it compare with the role of the Emperor since 1868? Who held the power and under what authority? How did this shift

over time? What was the relationship between religion and the state? How did the Shoguns come to power? How did art and architecture function in the expression and maintenance of warlord power? What is the connection between the balance of power and urban development in the Tokugawa period? Why is Zen Buddhism now so closely associated with samurai and the arts? These are some of the questions that will be addressed in this unit.

300992.3 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.

300814.2 Water Quality Assessment and Management

Credit Points 10 **Level** 1

Equivalent Units

300635 - Water Quality Assessment and Management

Special Requirements - Essential Equipment

Student will need to supply a lab coat and the field trip will involve an early start and possibly a late return to campus (7:30 start and 5:30 return).

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Water is essential for all life on earth. This unit will equip students with skills in biological, chemical and physical water quality assessment for a sustainable water future. The unit introduces students to healthy natural waterways and contrasting degraded waters impacted by disturbance from human activities. A broad range of pollutants, their sources and the consequences for human health and the ecology of water ways will be investigated. Management strategies will also be examined based on the sound scientific assessment of water quality. Students in this unit will cover water quality legislation, regulation, policy, guidelines and develop competencies in water monitoring, regulation, treatment and management.

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

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.

301012.3 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.

101912.1 Western Political Philosophy

Credit Points 10 **Level** 2

Equivalent Units

63286 - The Western Philosophical Tradition, 101294 - The Western Philosophical Tradition

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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The major social and political philosophy of the West, from the 5th century BC Greece till the 18th century will be examined. The development of ideas of citizenship, subjectivity, freedom, equality and the democratic state will be explored. The influence of Christianity will also be a major theme. Authors will include: Plato, Aristotle, Augustine, Aquinas, More, Hobbes, Locke, Vico, Rousseau.

102585.1 What is Islam?

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in a postgraduate course.

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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.

101010.3 What is the Human?

Credit Points 10 **Level** 3

Equivalent Units

SS216A - What is the Human?

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit examines theories of human nature from a variety of historical and disciplinary perspectives. It engages with, and encourages the student to evaluate, conceptions of the human - some of which have had wide currency in the broader culture and some which have not. The unit also engages the idea of whether a unified conception of human nature is tenable at all.

102768.1 When Worlds Collide: European Empires and the World, c.1600-1950

Credit Points 10 **Level** 1

Equivalent Units

101910 - Global History, 101673 - The First Globalisation, 700134 - Global History

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This unit provides an historical investigation of the interaction between European empires - specifically the British and the Dutch - and the Americas and Asia-Pacific region, from 1600-1950. It examines the combination of domination and cultural negotiation between colonisers and colonised, which included, among other processes, the trans-Atlantic slave trade. It examines both how peoples were managed as imperial subjects, and how they responded to this management. The unit explores both 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 from European and Asian history.

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.

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.

301161.2 Work Integrated Learning in Science

Credit Points 10 **Level** 2

Assumed Knowledge

Prior to entering the unit, the student must have completed three careers workshops (generating a 'career e-portfolio') and have attended a pre-placement workshop. At the workshop the responsibilities, requirements and assessment of the placement will be discussed. Additionally, at the workshop students will be guided on how to prepare their plan for the Professional Task.

Unit Enrolment Restrictions

Students must have successfully completed 30 credit points at level 2; must have a GPA > 5; must have completed the three Careers Workshops (http://www.westernsydney.edu.au/careers/home/students_grads_workshops) – "Applying for work: Resume and cover letter writing", "Finding Work" and "Interviewing for Work" - in order to generate a career e-portfolio; and must have developed a plan for the Professional Task.

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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 Western Sydney University Careers and attend a Pre-Placement seminar run by the unit coordinator. These will aid students in finding their own placement. Prior to the placement, and in consultation with the unit coordinator and the workplace supervisor, students will develop a Professional Task to accomplish during the placement. The task will enhance their workplace skills and highlight how their science knowledge can be adapted and integrated into a professional career. The unit aims to promote greater engagement with career planning and progression and hence improve job readiness.

102414.1 Working Grammar

Credit Points 10 **Level** 2

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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How does grammar work? And how do languages function in different social contexts? This unit introduces students to a functional analysis of the English language, and relates the structure of English to its use in cultural and social contexts. It offers students of literature and training teachers an introduction to theories and forms of analysis that support much English language education in Australia. The functional model of language is used in a range of fields - including teaching in schools and universities, teaching ESL/EFL, and broader language research. Students will apply the functional analysis of English to a range of spoken and written texts from diverse literary, social and cultural contexts. This will help to provide grammatical skills and work-readiness, especially for students training to be professional teachers.

200914.1 Working in Professions

Credit Points 10 **Level** 2

Equivalent Units

200376 - Managing and Developing Careers, 200915 - The Service Enterprise

Unit Enrolment Restrictions

Successful completion of 60 credit points of Business units.

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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.

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.

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.

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 workshoping environment, you will build outward from a 'story-bud' about an alternative or alien world to explore the logic of that world and its implications for the creation of believable characters, setting, action and - overall - the development of a successful story.

101670.3 Writing and Society

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

This unit explores the social dimensions of literature, both generally, by considering the role played by tradition, authorship, genre and style in the literary exploration of values, and in specific terms, through a close examination of works which have had an important social impact in their time, including those in translation, from a range of contemporary literatures. The lecturers are members of the Writing and Society Research Group, many of whom are practising authors.

800219.2 Writing Beyond the Academy: Knowledge Translation and Public Audience Communication

Credit Points 10 **Level** 4

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.

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.

401086.1 Writing for Publication

Credit Points 10 **Level** 7

Unit Enrolment Restrictions

Students must be enrolled in postgraduate course and must have successfully completed 60 credit points at Level 7.

Special Requirements - Essential Equipment

Access to the internet and a computer

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This unit is about writing for publication in the scholarly health and welfare literature. Students will investigate: the range of publications available and the media through which they are delivered; the process of publishing, the key people involved and their roles; the means by which quality is assured in the publishing process and the ways publications are rated for quality and impact; and the influence of social networking media on publishing. Specifically, the influence of online publishing will be investigated. Students will also gain experience of writing for publication under the guidance of an experienced editor and colleagues from the publishing industry. The unit is also available as an elective to all Postgraduate students in the University.

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 workshopping 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.

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 comparisons with the relationship between sound and text in film, and in the media more broadly.

101830.2 WWII in Asia and the Pacific

Credit Points 10 **Level** 3

Unit Enrolment Restrictions

Successful completion of 60 credit points of study in currently enrolled course.

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This unit provides inquiry into the origins, course, and aftermath of WWII in Asia and the Pacific. We will ask why Japan and China went to war with each other in the 1930s; we will also seek understanding of why and how that war came to include the United States, Britain, the Soviet Union, the Netherlands, Australia, New Zealand, and practically all of Asia. We will examine the atomic attacks against Hiroshima and Nagasaki: Was the bomb a necessary evil? Or could/should the US have avoided using the bomb? We will also look intensively at post-WWII Asia. How did two wartime allies - the US and the Soviet Union - become bitter enemies within months of the war's end? Why did China descend into civil war? What was the war in Korea all about? Were wars of independence throughout

SE Asia unavoidable? How was it that Japan escaped much of this postwar misery?

101662.1 Young People, Their Futures and Education

Credit Points 10 **Level** 3

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Young People, Their Futures and Education is situated within the broad theoretical framework of youth studies. This unit addresses a number of key issues concerning the education of young people from adolescence to early adulthood. Alternative theories and approaches to instructing, motivating and engaging young people are explored. Identity issues relating to various sections of the youth population are also examined. Emphasis is placed on providing future educators with practical skills and functional knowledge to enhance the experiences of young people.

100298.3 Youth Cultures and Moral Panics

Credit Points 10 **Level** 2

Assumed Knowledge

Satisfactory understanding of key issues and concepts of first year core units.

Unit Enrolment Restrictions

Successful completion of 40 credit points of study in currently enrolled course.

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Young people have long been the focus of social fears. Public figures regularly express concern about the disorder created by unruly youths, or the effects of change on young people. This is the case in relation to popular music, 'youth gangs', new technologies and other areas. This unit will consider how young people became defined as a problem by politicians, policy, the media and others. Resulting 'moral panics' represent social anxieties around economic, social and technological change, producing calls for 'solutions' which often entail repressive laws or policing. Students will examine a range of case studies from Australia and elsewhere.

Index for courses by course code order

Course	Description	Page	Course	Description	Page
			7121.2	Diploma in Science Extended - Natural Science	98
3562.9	Bachelor of Science (Advanced Science)	35	7122.2	Diploma in Science Extended - Science	98
3589.8	Bachelor of Science (Forensic Science)	42	7122.3	Diploma in Science Extended - Science	99
3638.6	Bachelor of Science - Pathway to Teaching (Secondary)	49	7175.1	Undergraduate Certificate in Environmental Sustainability	99
3658.6	Bachelor of Science/Bachelor of Arts	52	7175.2	Undergraduate Certificate in Environmental Sustainability	100
3660.6	Bachelor of Science/Bachelor of International Studies	67	8083.2	Bachelor of Research Studies	7
3670.1	Bachelor of Natural Science (Animal Science)	25	8087.2	Bachelor of Research Studies (exit only)	12
3671.2	Bachelor of Natural Science (Environmental Management)	26	8119.1	Bachelor of Research Studies (Planning)	12
3672.1	Bachelor of Natural Science (Environment and Health)	28	9017.2	University Foundation Studies Accelerated - 1 Term (WSTC)	1
3673.1	Bachelor of Medical Science	19	9018.5	University Foundation Studies Standard - 2 Terms (WSTC)	1
3673.2	Bachelor of Medical Science	20	9019.5	University Foundation Studies Standard - 2 Terms (WSTC)	2
3675.4	Bachelor of Science	31	9020.4	University Foundation Studies Extended - 3 Terms (WSTC)	2
3676.4	Bachelor of Science (Chemistry)	38			
3677.2	Bachelor of Science (Biological Sciences)	36			
3678.2	Bachelor of Science (Nutrition and Food Science)	44			
3679.3	Bachelor of Science (Mathematical Science)	43			
3680.3	Bachelor of Science (Environmental Science)	40			
3681.2	Bachelor of Science (Zoology)	47			
3682.3	Bachelor of Medical Science (Advanced)	21			
3725.1	Bachelor of Applied Leadership and Critical Thinking	6			
3726.1	Bachelor of Sustainable Agriculture and Food Security	75			
3726.2	Bachelor of Sustainable Agriculture and Food Security	78			
3726.3	Bachelor of Sustainable Agriculture and Food Security	79			
3732.1	Bachelor of Science (Zoology)/Bachelor of Natural Science (Animal Science)	74			
3733.1	Bachelor of Medical Science (Forensic Mortuary Practice)	22			
3733.2	Bachelor of Medical Science (Forensic Mortuary Practice)	23			
3736.1	Bachelor of Science - Pathway to Teaching (Primary/Secondary)	50			
3754.1	Bachelor of Science	33			
3755.1	Bachelor of Medical Science	18			
3756.1	Bachelor of Science (Pathway to Teaching Primary/Secondary)	51			
3757.1	Bachelor of Advanced Science	15			
3758.1	Bachelor of Advanced Medical Science	16			
3763.1	Bachelor of Science/Bachelor of Arts	57			
3764.1	Bachelor of Science/Bachelor of International Studies	71			
4748.2	Bachelor of Science/Bachelor of Business	60			
4748.3	Bachelor of Science/Bachelor of Business	64			
6002.1	Diploma in Science/Bachelor of Medical Science	81			
6002.2	Diploma in Science/Bachelor of Medical Science	83			
6003.1	Diploma in Science/Bachelor of Natural Science	86			
6004.1	Diploma in Science/Bachelor of Science	88			
6042.1	Diploma in Science/Bachelor of Medical Science	85			
6043.1	Diploma in Science/Bachelor of Science	91			
7009.5	Diploma in Science Fast Track	94			
7084.4	Diploma in Science (exit only)	93			
7120.2	Diploma in Science Extended - Medical Science	96			
7120.3	Diploma in Science Extended - Medical Science	96			
7120.4	Diploma in Science Extended - Medical Science	97			

Index for courses by course description order

Course	Description	Page	Course	Description	Page
			6042.1	Diploma in Science/Bachelor of Medical Science	85
3758.1	Bachelor of Advanced Medical Science	16	6003.1	Diploma in Science/Bachelor of Natural Science	86
3757.1	Bachelor of Advanced Science	15	6004.1	Diploma in Science/Bachelor of Science	88
3725.1	Bachelor of Applied Leadership and Critical Thinking	6	6043.1	Diploma in Science/Bachelor of Science	91
3755.1	Bachelor of Medical Science	18	7175.1	Undergraduate Certificate in Environmental Sustainability	99
3673.1	Bachelor of Medical Science	19	7175.2	Undergraduate Certificate in Environmental Sustainability	100
3673.2	Bachelor of Medical Science	20	9017.2	University Foundation Studies Accelerated - 1 Term (WSTC)	1
3682.3	Bachelor of Medical Science (Advanced)	21	9020.4	University Foundation Studies Extended - 3 Terms (WSTC)	2
3733.1	Bachelor of Medical Science (Forensic Mortuary Practice)	22	9018.5	University Foundation Studies Standard - 2 Terms (WSTC)	1
3733.2	Bachelor of Medical Science (Forensic Mortuary Practice)	23	9019.5	University Foundation Studies Standard - 2 Terms (WSTC)	2
3670.1	Bachelor of Natural Science (Animal Science)	25			
3672.1	Bachelor of Natural Science (Environment and Health)	28			
3671.2	Bachelor of Natural Science (Environmental Management)	26			
8083.2	Bachelor of Research Studies	7			
8087.2	Bachelor of Research Studies (exit only)	12			
8119.1	Bachelor of Research Studies (Planning)	12			
3675.4	Bachelor of Science	31			
3754.1	Bachelor of Science	33			
3736.1	Bachelor of Science - Pathway to Teaching (Primary/Secondary)	50			
3638.6	Bachelor of Science - Pathway to Teaching (Secondary)	49			
3562.9	Bachelor of Science (Advanced Science)	35			
3677.2	Bachelor of Science (Biological Sciences)	36			
3676.4	Bachelor of Science (Chemistry)	38			
3680.3	Bachelor of Science (Environmental Science)	40			
3589.8	Bachelor of Science (Forensic Science)	42			
3679.3	Bachelor of Science (Mathematical Science)	43			
3678.2	Bachelor of Science (Nutrition and Food Science)	44			
3756.1	Bachelor of Science (Pathway to Teaching Primary/Secondary)	51			
3681.2	Bachelor of Science (Zoology)	47			
3732.1	Bachelor of Science (Zoology)/Bachelor of Natural Science (Animal Science)	74			
3658.6	Bachelor of Science/Bachelor of Arts	52			
3763.1	Bachelor of Science/Bachelor of Arts	57			
4748.2	Bachelor of Science/Bachelor of Business	60			
4748.3	Bachelor of Science/Bachelor of Business	64			
3660.6	Bachelor of Science/Bachelor of International Studies	67			
3764.1	Bachelor of Science/Bachelor of International Studies	71			
3726.1	Bachelor of Sustainable Agriculture and Food Security	75			
3726.2	Bachelor of Sustainable Agriculture and Food Security	78			
3726.3	Bachelor of Sustainable Agriculture and Food Security	79			
7084.4	Diploma in Science (exit only)	93			
7120.2	Diploma in Science Extended - Medical Science	96			
7120.3	Diploma in Science Extended - Medical Science	96			
7120.4	Diploma in Science Extended - Medical Science	97			
7121.2	Diploma in Science Extended - Natural Science	98			
7122.2	Diploma in Science Extended - Science	98			
7122.3	Diploma in Science Extended - Science	99			
7009.5	Diploma in Science Fast Track	94			
6002.1	Diploma in Science/Bachelor of Medical Science	81			
6002.2	Diploma in Science/Bachelor of Medical Science	83			

Index for unit sets by unit sets code order

Unit Set	Description	Page	Unit Set	Description	Page
			M3049.1	Conservation Biology	144
			M3052.1	General Biology	144
A7236.1	WSTC Science Extended - Medical Science - Recent School Leavers	101	M3054.1	Mathematics	145
A7237.1	WSTC Science Extended - Medical Science - Non-Credentialed	101	M3057.1	Food Science & Technology	145
A7238.1	WSTC Science Extended - Medical Science - International	102	M3059.1	Human Nutrition	146
A7239.1	WSTC Science Extended - Natural Science - School Leavers	102	M3060.1	Medicinal Chemistry	146
A7240.1	WSTC Science Extended - Natural Science - Non-Credentialed	103	M3061.1	Anatomy and Physiology	147
A7241.1	WSTC Science Extended - Natural Science - International Students	104	M3062.1	Biomedical Science	148
A7242.1	WSTC Science Extended - Science - School Leavers	104	M3078.1	Climate Change	150
A7243.1	WSTC Science Extended - Science - Non-Credentialed Students	106	M3079.1	Conservation Biology	150
A7244.1	WSTC Science Extended - Science - International Students	107	M3080.1	General Biology	151
A7260.1	WSTC Science Extended - Medical Science - Recent School Leavers	109	M3081.1	Marine Biology	151
A7261.1	WSTC Science Extended - Medical Science - Non-Credentialed	109	M3082.1	Zoology	152
A7262.1	WSTC Science Extended - Medical Science - International	110	M3084.1	Environmental Consulting	152
A7266.1	WSTC Science Extended - Medical Science - Recent School Leavers	110	M3089.1	Nutrition and Physiology	153
A7267.1	WSTC Science Extended - Medical Science - Non-Credentialed	111	M3090.1	Biochemistry and Molecular Biology	153
A7268.1	WSTC Science Extended - Medical Science - International	111	M3099.1	Microbiology	153
A7269.1	WSTC Science Extended - Science - Recent School Leavers	112	M3100.1	Forensic Chemistry	154
A7270.1	WSTC Science Extended - Science - Non-Credentialed Students	112	M3103.1	Medicinal Chemistry	154
A7271.1	WSTC Science Extended - Science - International Students	113	M3104.1	Anatomy and Physiology	155
KP3027.1	General Program	114	M3105.1	Biomedical Science	156
KT3128.1	Biological Science	117	M3106.1	Forensic Mortuary Practice	156
KT3129.1	Chemistry	118	M3120.1	Crime Scene Investigation	157
KT3132.1	Nutrition and Food Science	119	M4011.1	Environmental Consulting	157
KT3134.1	Zoology	120	M4012.1	Crime Scene Investigation	158
KT3148.1	Environmental Science	121	M4013.1	Natural Science	158
KT3149.1	Forensic Science	122	M4014.1	Social Sciences	159
KT3150.1	Mathematical Sciences	122	M4015.1	Business	160
M1041.1	Indigenous Australian Studies	123	M4016.1	Natural Science	161
M1052.1	Cultural and Social Analysis	124	M4017.1	Social Sciences	162
M1053.1	English	125	M4018.1	Business	163
M1054.1	History and Political Thought	127	MT2021.1	Applied Finance	164
M1055.1	International Relations and Asian Studies	129	MT2022.1	Economics	166
M1056.1	Islamic Studies	130	MT2024.1	Human Resource Management	167
M1058.1	Philosophy	130	MT2025.1	International Business	169
M1059.1	Arabic	131	MT2026.1	Management	170
M1060.1	Chinese	132	MT2027.1	Marketing	172
M1062.1	Japanese	133	MT2035.1	Hospitality Management	173
M1069.1	Criminology and Criminal Justice	134	MT2036.1	Sport Management	175
M1071.1	Geography and Urban Studies	135	MT3006.1	Biological Sciences	176
M1073.1	Sociology	135	MT3007.1	Chemistry	176
M1093.1	Indonesian	136	MT3008.1	Mathematical Science	177
M1097.1	Anthropology	136	MT3014.1	Zoology	177
M1110.1	Psychological Studies	137	MT3015.1	Animal Science	179
M1113.1	Creative Writing	137	MT3016.1	Biology	181
M1119.1	Linguistics	139	MT3017.1	Ecology	183
M1129.1	International English	139	MT3018.1	Environmental Futures	184
M1131.1	Culture and Society	140	MT3019.1	Microbiology	186
M1132.1	International English	141	MT3021.1	Nutrition and Food Science	188
M1137.1	History and Political Thought	141	MT3022.1	Forensic Science	190
M2510.1	Economy and Markets	142	MT3023.1	Forensic Chemistry	193
M2514.1	Innovation and Change	143	MT3024.1	Forensic Biology	194
M3046.1	Aquatic Biology	143	MT3025.1	Mathematics	195
M3047.1	Chemistry	143	MT3026.1	Applied Physics	197
			MT3027.1	Chemistry	199
			MT3028.1	Anatomy and Physiology	201
			MT3029.1	Medicinal Chemistry	203
			MT3030.1	Biomedical Science	204
			MT3031.1	Environmental Health	206
			MT3032.1	Data Science	208
			MT3042.1	Biology	210
			MT3043.1	Sustainable Environmental Futures	212
			SM1049.1	Indigenous Australian Studies	214
			SM1067.1	Education Studies	214
			SM1070.1	Cultural and Social Analysis	215
			SM1071.1	English	216
			SM1072.1	History and Political Thought	218
			SM1073.1	International Relations and Asian Studies	219
			SM1076.1	Philosophy	220
			SM1077.1	Arabic	221
			SM1078.1	Chinese	222
			SM1080.1	Japanese	223
			SM1100.1	Education Studies	224

Unit Set	Description	Page
SM1112.1	Indonesian	224
SM1115.1	Psychological Studies	225
SM1116.1	Creative Writing	225
SM1119.1	Linguistics	226
SM1128.1	Immersion Language	227
SM1132.1	International English	228
SM1138.1	Culture and Society	228
SM1139.1	International English	229
SM1145.1	History and Political Thought	229
SM3038.1	Food Technology - Secondary Teaching	230
SM3039.1	Statistics	231
SM3041.1	Biochemistry and Molecular Biology	231
SM3042.1	Conservation Biology	231
SM3044.1	Microbiology	232
SM3045.1	Zoology	232
SM3046.1	Sustainable Environmental Management	232
SM3048.1	Climate Change	233
SM3049.1	Immunology and Cell Biology	233
SM3050.1	Physics	233
SM3062.1	Aquatic Environments	234
SM3063.1	Zoology	234
SM3079.1	Environmental Management	234
SM3089.1	Statistics	234
SM3113.1	Environmental Health	235
SM3114.1	Infectious Diseases	235
SQ9051.1	Health Science/Nursing Sequence - Foundation Studies Accelerated - 1 Term	4
SQ9053.1	Arts Sequence - Foundation Studies	4
SQ9054.1	Business Sequence - Foundation Studies	4
SQ9055.1	Engineering Sequence - Foundation Studies	4
SQ9056.1	Health Science/Nursing Sequence - Foundation Studies	4
SQ9057.1	ICT Sequence - Foundation Studies	5
SQ9058.1	Science Sequence - Foundation Studies	5

Index for unit sets by unit set description order			Unit Set	Description	Page
			M3080.1	General Biology	151
			KP3027.1	General Program	114
			M1071.1	Geography and Urban Studies	135
			SQ9056.1	Health Science/Nursing Sequence - Foundation Studies	4
			SQ9051.1	Health Science/Nursing Sequence - Foundation Studies Accelerated - 1 Term	4
M3061.1	Anatomy and Physiology	147	M1054.1	History and Political Thought	127
M3104.1	Anatomy and Physiology	155	M1137.1	History and Political Thought	141
MT3028.1	Anatomy and Physiology	201	SM1072.1	History and Political Thought	218
MT3015.1	Animal Science	179	SM1145.1	History and Political Thought	229
M1097.1	Anthropology	136	MT2035.1	Hospitality Management	173
MT2021.1	Applied Finance	164	M3059.1	Human Nutrition	146
MT3026.1	Applied Physics	197	MT2024.1	Human Resource Management	167
M3046.1	Aquatic Biology	143	SQ9057.1	ICT Sequence - Foundation Studies	5
SM3062.1	Aquatic Environments	234	SM1128.1	Immersion Language	227
M1059.1	Arabic	131	SM3049.1	Immunology and Cell Biology	233
SM1077.1	Arabic	221	M1041.1	Indigenous Australian Studies	123
SQ9053.1	Arts Sequence - Foundation Studies	4	SM1049.1	Indigenous Australian Studies	214
M3090.1	Biochemistry and Molecular Biology	153	M1093.1	Indonesian	136
SM3041.1	Biochemistry and Molecular Biology	231	SM1112.1	Indonesian	224
KT3128.1	Biological Science	117	SM3114.1	Infectious Diseases	235
MT3006.1	Biological Sciences	176	M2514.1	Innovation and Change	143
MT3016.1	Biology	181	MT2025.1	International Business	169
MT3042.1	Biology	210	M1129.1	International English	139
M3062.1	Biomedical Science	148	M1132.1	International English	141
M3105.1	Biomedical Science	156	SM1132.1	International English	228
MT3030.1	Biomedical Science	204	SM1139.1	International English	229
M4015.1	Business	160	M1055.1	International Relations and Asian Studies	129
M4018.1	Business	163	SM1073.1	International Relations and Asian Studies	219
SQ9054.1	Business Sequence - Foundation Studies	4	M1056.1	Islamic Studies	130
KT3129.1	Chemistry	118	M1062.1	Japanese	133
M3047.1	Chemistry	143	SM1080.1	Japanese	223
MT3007.1	Chemistry	176	M1119.1	Linguistics	139
MT3027.1	Chemistry	199	SM1119.1	Linguistics	226
M1060.1	Chinese	132	MT2026.1	Management	170
SM1078.1	Chinese	222	M3081.1	Marine Biology	151
M3078.1	Climate Change	150	MT2027.1	Marketing	172
SM3048.1	Climate Change	233	MT3008.1	Mathematical Science	177
M3049.1	Conservation Biology	144	KT3150.1	Mathematical Sciences	122
M3079.1	Conservation Biology	150	M3054.1	Mathematics	145
SM3042.1	Conservation Biology	231	MT3025.1	Mathematics	195
M1113.1	Creative Writing	137	M3060.1	Medicinal Chemistry	146
SM1116.1	Creative Writing	225	M3103.1	Medicinal Chemistry	154
M3120.1	Crime Scene Investigation	157	MT3029.1	Medicinal Chemistry	203
M4012.1	Crime Scene Investigation	158	M3099.1	Microbiology	153
M1069.1	Criminology and Criminal Justice	134	MT3019.1	Microbiology	186
M1052.1	Cultural and Social Analysis	124	SM3044.1	Microbiology	232
SM1070.1	Cultural and Social Analysis	215	M4013.1	Natural Science	158
M1131.1	Culture and Society	140	M4016.1	Natural Science	161
SM1138.1	Culture and Society	228	KT3132.1	Nutrition and Food Science	119
MT3032.1	Data Science	208	MT3021.1	Nutrition and Food Science	188
MT3017.1	Ecology	183	M3089.1	Nutrition and Physiology	153
MT2022.1	Economics	166	M1058.1	Philosophy	130
M2510.1	Economy and Markets	142	SM1076.1	Philosophy	220
SM1067.1	Education Studies	214	SM3050.1	Physics	233
SM1100.1	Education Studies	224	M1110.1	Psychological Studies	137
SQ9055.1	Engineering Sequence - Foundation Studies	4	SM1115.1	Psychological Studies	225
M1053.1	English	125	SQ9058.1	Science Sequence - Foundation Studies	5
SM1071.1	English	216	M4014.1	Social Sciences	159
M3084.1	Environmental Consulting	152	M4017.1	Social Sciences	162
M4011.1	Environmental Consulting	157	M1073.1	Sociology	135
MT3018.1	Environmental Futures	184	MT2036.1	Sport Management	175
MT3031.1	Environmental Health	206	SM3039.1	Statistics	231
SM3113.1	Environmental Health	235	SM3089.1	Statistics	234
SM3079.1	Environmental Management	234	MT3043.1	Sustainable Environmental Futures	212
KT3148.1	Environmental Science	121	SM3046.1	Sustainable Environmental Management	232
M3057.1	Food Science & Technology	145	A7238.1	WSTC Science Extended - Medical Science - International	102
SM3038.1	Food Technology - Secondary Teaching	230	A7262.1	WSTC Science Extended - Medical Science - International	110
MT3024.1	Forensic Biology	194	A7268.1	WSTC Science Extended - Medical Science - International	111
M3100.1	Forensic Chemistry	154			
MT3023.1	Forensic Chemistry	193			
M3106.1	Forensic Mortuary Practice	156			
KT3149.1	Forensic Science	122			
MT3022.1	Forensic Science	190			
M3052.1	General Biology	144			

Unit Set	Description	Page
A7237.1	WSTC Science Extended - Medical Science - Non-Credentialed	101
A7261.1	WSTC Science Extended - Medical Science - Non-Credentialed	109
A7267.1	WSTC Science Extended - Medical Science - Non-Credentialed	111
A7236.1	WSTC Science Extended - Medical Science - Recent School Leavers	101
A7260.1	WSTC Science Extended - Medical Science - Recent School Leavers	109
A7266.1	WSTC Science Extended - Medical Science - Recent School Leavers	110
A7241.1	WSTC Science Extended - Natural Science - International Students	104
A7240.1	WSTC Science Extended - Natural Science - Non-Credentialed	103
A7239.1	WSTC Science Extended - Natural Science - School Leavers	102
A7244.1	WSTC Science Extended - Science - International Students	107
A7271.1	WSTC Science Extended - Science - International Students	113
A7243.1	WSTC Science Extended - Science - Non-Credentialed Students	106
A7270.1	WSTC Science Extended - Science - Non-Credentialed Students	112
A7269.1	WSTC Science Extended - Science - Recent School Leavers	112
A7242.1	WSTC Science Extended - Science - School Leavers	104
KT3134.1	Zoology	120
M3082.1	Zoology	152
MT3014.1	Zoology	177
SM3045.1	Zoology	232
SM3063.1	Zoology	234

Index for units by unit code order

Unit	Description	Page	Unit	Description	Page
			101011.3	Writing Poetry	360
			101033.4	Modernism	318
100001.3	Keeping the Past	309	101183.4	Psychology: Behavioural Science	331
100013.5	Experimental Design and Analysis	280	101184.4	Psychology: Human Behaviour	331
100015.7	History and Philosophy of Psychology	291	101193.5	Health Psychology	290
100023.7	Psychology of Language	331	101250.3	Digital Futures	271
100041.2	Arabic 101	249	101259.3	Learning and Creativity	310
100042.2	Arabic 102	250	101263.1	Education and Transformation	273
100048.2	Arabic 302 - Arabic Advanced Language and Grammar	251	101265.3	Children's Culture	257
			101295.2	Aesthetics	245
100049.2	Arabic 303: Advanced Writing Skills	251	101314.4	Urban Management Practice: Governance and Power in the City	354
100050.2	Arabic 304: Arabic Advanced Speaking	251			
100052.2	Arabic 306: Arabic Novel and Short Story	251	101331.3	Issues in World Development: Rich World, Poor World	307
100054.2	Arabic 308: Language Past and Present	252			
100056.2	Chinese 101	258	101359.7	Sociology of Religion	341
100057.2	Chinese 102	258	101442.2	Asia in the World	252
100063.2	Chinese 302	259	101449.2	Bilingualism and Biculturalism	253
100064.2	Chinese 303: Twentieth-Century Chinese Literature	259	101450.2	Sociolinguistics	341
			101451.2	Second Language Acquisition	338
100065.2	Chinese 304: Chinese Classical Literature	260	101465.2	Islamic Law in a Changing World	306
100066.2	Chinese 305: Chinese Cinema	260	101466.2	Ethical Traditions in Islam	279
100067.2	Chinese 307: The Cultural Context of China	260	101467.2	Islam in Southeast Asia	305
			101468.2	Islam, Media and Conflict	306
100085.2	Japanese 101	307	101562.4	Culture and Crime	268
100086.3	Japanese 102	307	101569.3	Sustainable Futures	345
100092.3	Japanese 302	308	101589.3	Cities: Introduction to Urban Studies	260
100093.2	Japanese 303: Contemporary Culture and Society	308	101590.3	Cultural and Social Geographies	267
			101591.3	The Economics of Cities and Regions	347
100194.2	Introduction to Interpreting	303	101593.4	Planning the City: Development, Community and Systems	326
100195.2	Introduction to Translation	305			
100201.3	Special Study in Languages and Linguistics	342	101595.3	Community and Social Action	262
100244.2	Ancient Western Culture: Periclean Athens	247	101610.3	Health, Illness and Biomedicine: A Sociological Perspective	290
100254.3	Exploring Local History	281			
100271.3	Modern Japanese History	318	101611.3	Home and Away: Ethnicity and Migration in Australia	292
100275.4	Philosophies of Love and Death	324			
100277.4	Politics of Australia and Asia Relations	327	101612.4	Identity and Belonging	294
100278.2	Politics of Post-War Japan	327	101623.1	Ethical Futures	278
100291.5	Urban Life/Urban Culture	354	101626.5	Children's Literature: Image and Text	257
100298.3	Youth Cultures and Moral Panics	361	101645.3	Transport, Access and Equity	353
100507.4	History of Modern China to 1949	291	101646.3	Analysis of Spatial Data	247
100510.2	Chinese 306: Traditional Chinese Thought	260	101650.3	Race in Literature	333
100582.3	Writing Portfolio	360	101661.2	Education in a Cosmopolitan Society	274
100584.2	Experimental Writing and Electronic Publication	281	101662.1	Young People, Their Futures and Education	361
			101663.2	Education for Sustainability	273
100641.3	Approaches to Text	249	101669.3	World Literature in Translation	358
100846.2	Analytical Reading and Writing	247	101670.3	Writing and Society	359
100849.4	Australian Textual Studies	253	101676.4	Human Learning	293
100856.4	Creative Non-Fiction	266	101677.5	Cognitive Processes	262
100859.3	Creative Writing Project	266	101678.5	Motivation and Emotion	319
100860.3	Emotions, Culture and Community	274	101679.4	Personality	323
100861.3	Empire: European Colonial Rule and its Subjects, 1750-1920	274	101680.5	Perception	323
			101681.6	Abnormal Psychology	236
100866.3	Film and Drama	282	101682.8	Developmental Psychology	270
100875.4	Literature and Philosophy	311	101683.4	Social Psychology	340
100882.3	Politics of Sex and Gender	327	101684.5	Brain and Behaviour	255
100893.4	The Novel	349	101689.4	Advanced Research Methods	242
100895.4	Writing For Performance	359	101694.3	Geographies of Migration	287
100896.3	Writing Fiction	359	101716.3	Healing and Culture	289
100897.2	Everyday Life	279	101724.2	Literary Animals	311
100903.2	Democracy in Asia	269	101731.3	Understanding Power	353
100958.2	Australia and the World	252	101733.2	Looking at Global Politics Through Film	312
100960.2	Contemporary Society	264	101735.2	Global Politics	288
100964.3	Introduction to Film Studies	303	101739.3	Literature and Trauma	311
100966.3	American History, 1898-1945	246	101751.2	Contextualising Indigenous Australia (Day Mode)	264
100968.3	Texts and Traditions	346			
100969.2	Theories of Conflict and Violence	351	101752.2	Pigments of the Imagination	326
100985.2	American Foreign Policy Since 1945	246	101753.3	Revaluing Indigenous Economics (Day Mode)	337
100996.3	Death and Culture	269			
101001.3	Modernity and Cinema	318	101754.3	From Corroborees to Curtain Raisers (Day Mode)	285
101005.4	Representing Crime	333			
101009.4	The Body in Culture	347	101755.2	From Ochre to Acrylics to New Technologies	285
101010.3	What is the Human?	357			

Unit	Description	Page	Unit	Description	Page
101756.2	Bridging the Gap: Re-engaging Indigenous Learners	255	101984.1	Cinema and Experience	260
101757.2	The Making of the 'Aborigines'	349	101985.1	Politics, Power and Resistance	327
101758.2	Learning through Indigenous Australian Community Service (Day Mode)	311	101987.1	Postcolonial Australian Cinema	327
101759.2	Rethinking Research with Indigenous Australians: Independent Study Project (Day Mode)	337	101988.1	Human Rights and Culture	294
101762.1	Who do you think you are? (Day Mode)	357	101989.1	Thinking Cinema	352
101782.2	The History and Politics of Contemporary Central Asia	348	101990.1	The Racial State	349
101783.2	The International Relations of the Middle East Since 1945	348	101991.1	History of Sexuality	291
101791.2	Short Fiction in the Americas	339	101992.1	Religion and the Emergence of Modern Politics	333
101795.3	The Musical	349	101993.1	War and Society in the Twentieth Century	355
101796.1	19th Century American Literature	236	101999.1	Twentieth Century Australia	353
101797.2	Political Terror	327	102000.1	Modern European History and Politics	317
101798.2	Understanding Freedom	353	102002.1	Religion and the Origins of Modern Science	333
101799.2	Convicts and Settlers - Australian History 1788 - 1840	265	102003.1	Comparative Nationalism	262
101822.3	Islam in the West	306	102004.1	Australian Colonial History	252
101830.2	WWII in Asia and the Pacific	360	102005.1	The Politics of Civilisation	349
101848.1	Transnationalism and Migration	352	102007.1	Ethics in Historical Perspective	279
101866.1	United States Government and Politics	354	102019.1	Arabic 201	250
101867.2	The Ethical Life	348	102020.1	Arabic 202	250
101870.1	Climate Change and Culture	261	102021.1	Arabic 203	250
101872.1	Australian Indigenous History from Federation to Reconciliation	252	102022.1	Arabic 204	250
101874.3	Experiential Learning in Communities (ELC)	280	102024.1	Chinese 201	258
101878.2	Indigenous Landscapes	295	102025.1	Chinese 202	258
101879.2	Women with Muslim Identity	357	102026.1	Chinese 203	258
101880.1	The Space of Literature	350	102027.1	Chinese 204	259
101882.1	A History of Modern Global Buddhism	236	102028.1	Japanese 201	307
101886.2	Brave New World: Negotiating Social Change in the 21st Century	255	102029.1	Japanese 202: Speaking and Listening	307
101898.1	Violence in Everyday Life	355	102030.1	Japanese 203	308
101905.3	Indigenous Cultures: A Global Perspective	295	102036.2	Prisons, Punishment and Criminal Justice	330
101906.2	Researching Culture	335	102038.2	Crime Prevention and Community	267
101907.1	Introduction to Literary Studies	304	102042.1	The Sound of Language	350
101909.1	Methods of Reading	317	102043.1	Historical Linguistics	290
101911.2	The Qur'an: An Introduction	349	102044.1	Research Methods in Linguistics	334
101912.1	Western Political Philosophy	356	102048.1	Contemporary Childhoods	264
101913.2	Theories of Authority	351	102078.1	Reading Ireland in the 1990s: Fiction, Poetry, Drama	333
101915.1	Ethics and Philosophy	279	102079.1	Britain in the Age of Botany Bay, 1760-1815	256
101917.1	Representing Everyday Life in Literary and Visual Cultures	334	102099.1	20th Century American Literature	236
101918.1	Introduction to Philosophy	304	102142.1	Warlords, Artists and Emperors: Power and Authority in Japanese History	355
101919.1	Australian Indigenous History: From first contact to 'dying race'	253	102143.2	Families and Intimate Life	282
101945.2	Introduction to Linguistics	303	102161.2	Leading Change	310
101946.1	Discourse Analysis	271	102184.1	History of Muslim Civilisations and Ideas	291
101948.4	Structure of Language	344	102185.1	Culture, Discourse and Meaning	268
101949.2	Arabic 301	251	102186.1	Introduction to Stylistics	304
101950.1	Intercultural Communication	298	102187.1	Sultans, Colonists and Nationalists: Indonesia C1200-1942	345
101951.1	Chinese 301	259	102188.1	Dictators, Democrats and Dreamers: Indonesia 1942 to now	270
101952.1	Japanese 301	308	102189.1	International Organisations and Global Governance	299
101956.1	Introduction to International Relations	303	102190.1	International Relations of Southeast Asia	300
101957.2	The Asian Century	347	102191.1	Queer Culture	332
101964.1	Sexual/Textual Politics in Victorian Women's Writing	339	102192.1	Cinema and Censorship	260
101965.2	Philosophy of Religion	325	102193.1	International Special Study	300
101967.1	Cultural History of Books and Reading	267	102194.3	Social Research in the Digital World	340
101968.1	Civil Society in Contemporary China	261	102205.2	Children's and Young Adult Fiction	257
101970.1	Japanese 304: Discourse in Japanese	309	102206.1	Experience-based Outdoor Education	280
101971.1	Japanese 305: Advanced Reading and Writing	309	102207.1	The Brain and Learning	347
101974.1	Enlightenment and Revolution	275	102209.1	Scientific Discovery and Invention	338
101977.1	Women, Travel and Empire	357	102211.3	Creativity, Innovation and Design Thinking	266
101978.1	Modern Australian Poetry and Poetics	317	102212.3	Internship and Community Engagement	301
101979.1	Understanding Visual Culture	354	102219.1	Japanese 306: Japanese Popular Culture	309
101981.1	Activism, Engagement and Social Change	238	102250.3	Ethical Leadership	278
101983.1	Truth and Knowledge	353	102253.2	Digital Social Research in Action	271
			102294.1	Islam in the Modern World	306
			102296.1	Hadith: The Prophetic Tradition	289
			102297.1	Islamic Revivalism in the Globalised World	307
			102305.1	Food: A Cultural History	284
			102315.1	Crime Fiction	266
			102316.1	Indonesian 101	295
			102319.2	Indonesian 201	295

Unit	Description	Page	Unit	Description	Page
102326.2	Indonesian 102	295	102601.1	Understanding Race	354
102327.1	Indonesian 202	296	102602.1	Gender and Genre	286
102331.1	Indonesian 305: Past and Present of Indonesian	296	102615.1	Theoretical Philosophy	351
102332.1	Indonesian 306: Indonesian Literature	297	102616.1	Philosophy and Literature	324
102343.1	Napoleon: the Making of a Legend	320	102618.1	Practical Philosophy	329
102344.2	Different Ways of Being in the World: Introduction to Social Anthropology	270	102619.1	Philosophy of Nature	325
102345.2	Global Structures, Local Cultures	288	102620.1	Philosophy, History and Interpretation	325
102346.2	Ethnographies of Southeast Asia and the Pacific	279	102621.2	Formal and Functional Grammar	284
102348.2	Power as a Cultural System	328	102625.1	Discovering language: Everything you've ever wanted to know but never asked	271
102349.2	The Anthropologies of Gender and Sexualities	346	102626.1	Medieval and Early Modern Literature	316
102350.3	Psychology and the Online World	331	102661.1	How to Write History	293
102374.1	Women's Writing	358	102662.1	New Genres in Research Writing	320
102379.1	Special Topics in Philosophy	342	102709.2	Introduction to Criminal Justice	302
102383.1	Topics in the History of Philosophy	352	102710.1	Crime, Media, Culture	267
102410.2	Digital Cultures	271	102728.1	Research into Practice: bridging the clinician-researcher divide in applied and creative therapies	334
102413.1	Consumer Culture	263	102733.2	Genders and sexualities: beyond the binary	287
102414.1	Working Grammar	358	102734.1	History of Religion	291
102416.1	Law, Literature and Culture	310	102735.1	Foundations of Academic English	285
102417.1	Philosophy and Environment	324	102736.1	Diversity, Language and Culture	272
102420.1	Classics of Modern Philosophy	261	102737.1	Thinking Critically About Texts and Society	352
102421.2	Data, Mediation, Power	269	102738.1	Australian Politics and Active Citizenship	253
102423.1	War	355	102765.1	The Value of Literature	350
102425.1	Digital Humanities and Research Methods (UG)	271	102766.1	Historical Methodologies	290
102434.1	Postcolonial Literatures: Partition, Dependence and Exile	328	102768.1	When Worlds Collide: European Empires and the World, c.1600-1950	357
102435.1	Editing and Publishing	273	102772.1	Writing and Reading Sci-Fi and Fantasy	359
102436.2	Creative Writing: The Imaginative Life	266	102773.1	Indonesian 301	296
102437.1	Creative Writing: Practical Skills and Knowledge	266	102774.1	Indonesian 302	296
102438.1	English as an International Language	274	102775.1	Indonesian 303	296
102439.1	English Language Analysis	275	102776.1	Indonesian 304	296
102474.1	TESOL Teaching Methodology	346	102781.1	Labour and Culture	310
102476.1	English Language Linguistics	275	102787.1	Doing Sociology	272
102477.1	TESOL Curriculum Design	346	102788.1	Self and Society	339
102479.1	Cultures of Crime and Punishment	268	102789.1	Philosophy of Race and Racism	325
102489.1	Meaning in Language	316	102796.1	Teachers as Change Makers	345
102490.1	Pragmatics	329	102804.1	Japanese 204: Speaking and Listening	308
102491.1	The History of Southeast Asia	348	102805.1	Indigenous Landscapes	295
102492.1	Catastrophe: The Environmental History of the Ancient and Modern World	257	102812.1	English Text	275
102493.1	Philosophy of History	324	102813.1	English Talk	275
102495.1	Mystical Islam: The Emergence of Sufism in World History	319	102814.1	History of the Ancient World	292
102500.2	Writing and Form	359	102823.1	Islam: Past, Present and Future	306
102501.2	Writing, Sounds, Images, Texts	360	102835.1	Catastrophe: The Environmental History of the Ancient World	257
102507.1	The Gothic	348	102842.1	History of the People's Republic of China	292
102509.2	Computational Thinking across the STEM Curriculum	262	102844.1	Society, Culture and Human Diversity	340
102516.1	Australian History Around Us	252	102853.1	Cool Green Cities	265
102520.1	From Vindication to Liberation: A Comparative History of Feminism	285	102861.1	Medieval Europe from the Fall of the Roman Empire to the Reformation	317
102525.1	Bilingualism and Education	254	102862.1	Migration and Social Change	317
102529.2	Cyber Justice (UG)	268	102913.1	Introduction to Culture and Society	302
102570.1	Books that Changed how we Think	255	102916.1	First Peoples and Criminal Justice	283
102571.1	Thinkers That Changed the World	351	200032.7	Statistics for Business	343
102572.1	Literature and Decolonisation	311	200033.5	Applied Statistics	249
102574.2	Public Health in Complex Emergencies (Advanced)	332	200037.4	Regression Analysis & Experimental Design	333
102575.2	Emergency and Disaster Management	274	200038.3	Time Series and Forecasting	352
102576.2	Global Health, Migration and Development	288	200045.4	Quantitative Project	332
102577.2	Humanitarian and Development Agendas and Progress	294	200052.7	Introduction to Economic Methods	302
102581.1	Literary Theory	311	200083.3	Marketing Principles	315
102582.1	Philosophy of History and Politics	325	200084.2	Consumer Behaviour	263
102583.1	History of Ideas	291	200086.3	Marketing Communications	314
102584.1	The Image of Thought: Art, Film and Philosophy	348	200087.3	Strategic Marketing Management	344
102585.1	What is Islam?	357	200088.3	Brand and Product Management	255
			200091.4	Business to Business Marketing	256
			200094.4	International Marketing	299
			200096.3	Marketing Planning Project	314
			200098.4	The Markets of Asia	349
			200157.4	Organisational Learning and Development	321
			200158.4	Business, Society and Policy	256
			200193.3	Abstract Algebra	236

Unit	Description	Page	Unit	Description	Page
200300.2	Managing People at Work	313	201079.1	Sport and Society	342
200376.4	Managing and Developing Careers	313	201099.1	Consumers, Firms and Markets	264
200525.3	Principles of Economics	329	300134.3	Introduction to Information Technology	303
200537.4	Economics and Finance Engagement Project	273	300173.5	Advanced Data Networks	240
200549.3	The Australian Macroeconomy	347	300196.5	Personal Communication Systems	323
200561.4	Hospitality Management Applied Project	293	300197.5	Power System Planning and Economics	328
200568.3	Contemporary Management Issues	264	300252.4	Advanced Topics in Networking	245
200571.4	Management Dynamics	312	300515.6	Instrumentation and Measurement (PG)	297
200575.3	Processes and Evaluation in Employment Relations	330	300594.6	Advanced Structural Analysis	244
200585.4	Organisational Behaviour	321	300595.5	Advanced Water Engineering	245
200587.2	Strategic Management	344	300596.5	Advanced Signal Processing	243
200589.3	Export Strategy and Applications	282	300599.5	Advanced Robotics	242
200590.2	International Business Project	298	300600.5	Mechatronic System Design	316
200591.2	Introduction to International Business	303	300601.5	Advanced Electrical Machines and Drives	240
200592.2	Marketing Research	315	300603.5	Advanced Control Systems	239
200613.3	Negotiation, Bargaining and Advocacy	320	300604.5	Advanced Geotechnical Engineering	240
200614.3	Enterprise Industrial Relations	275	300655.3	Approved Industrial Experience	249
200621.3	International Human Resource Management	299	300694.4	Advanced Topics in ICT	244
200626.3	International Business Strategy	298	300754.5	Neuroanatomy	320
200739.2	Reward and Performance Management	337	300791.2	Sustainable Food Production	345
200740.5	Human Resource and Industrial Relations Strategy	293	300800.3	Essential Chemistry 1	278
200751.2	Sport Management Applied Project	343	300804.2	Feeding the Planet	282
200815.2	Globalisation and Sustainability	288	300805.2	Food Science 1	284
200818.1	Bank Management	253	300810.2	Resource Sustainability	336
200855.3	Leadership in a Complex World	310	300812.2	Understanding Landscape	353
200859.1	Human Resource Development	294	300814.2	Water Quality Assessment and Management	356
200860.1	People, Work and Society	323	300817.2	Molecular Biology	318
200862.1	Creating Change and Innovation	265	300818.1	Introduction to Physiology	304
200863.1	Leadership and Entrepreneurship	310	300819.2	Topics in Physiology	352
200864.2	Managing in the Global Environment	313	300821.2	Environment and Health	276
200865.2	Managing Operations	313	300823.2	Soils	341
200896.3	Business Analysis Seminars	256	300825.2	Introduction to Anatomy	301
200897.2	Advanced Analysis and Interpretation	238	300830.3	Analysis of Change	246
200898.3	Seminal Papers in Business	339	300831.4	Quantitative Thinking	332
200909.2	Enterprise Law	276	300834.2	Animal Health and Welfare	248
200910.2	Financing Enterprises	282	300836.2	Botany	255
200911.1	Enterprise Innovation and Markets	276	300840.2	Environmental Planning and Climate Change	277
200912.1	Enterprise Leadership	276	300842.3	Food Science 2	284
200914.1	Working in Professions	358	300844.2	General Microbiology	287
200915.3	The Service Enterprise	350	300847.2	Immunology	294
200916.1	Economic and Financial Modelling	272	300850.2	Advanced Cell Biology	238
200917.2	Innovation, Enterprise and Society	297	300851.1	Advanced Physiology	242
200918.1	Design Thinking for Creativity	269	300852.2	Air Quality and Climate Change	246
200919.1	Innovation and Professional Practice	297	300856.2	Ecosystem Carbon Accounting	273
200921.1	Security Analysis and Business Valuation	338	300857.1	Environmental Geochemistry	276
200923.1	Corporations, Economic Power and Policy	265	300858.2	Environmental Risk Management	277
200924.3	Cost Benefit Analysis	265	300860.2	Urban Environment	354
200925.1	Growth, Cycles and Crises	289	300861.2	Vertebrate Biodiversity	355
200926.1	Macroeconomic Measures and Models	312	300865.2	Plant Physiology	326
200961.2	International Human Rights Law	299	300869.2	Postharvest	328
200962.2	International Criminal Law and Justice	298	300871.2	Culinary Science	267
200963.2	International Space Law - Commercial Aspects	300	300872.2	Epidemiology	277
200964.1	Principles of International Law	329	300875.2	Landuse and the Environment	310
200980.1	Security of Ideas	338	300879.2	Experimental Foods	281
200988.2	The Business of Hospitality	347	300884.3	Pharmacology	324
200989.2	Hospitality Places and Spaces	293	300889.1	Pathological Basis of Disease	322
200990.1	Special Event Management	342	300889.2	Pathological Basis of Disease	322
200991.2	Service Industry Analytics	339	300891.2	Advanced Medicinal Chemistry	241
200992.2	Food and Beverage Management	283	300892.3	Medical Science Project	316
200993.2	The Accommodation Industry	346	300897.3	Anatomy of the Head and Neck	247
200994.2	Hospitality Profitability and Entrepreneurship	293	300898.4	Appendicular Skeleton	248
200995.2	Hospitality and Tourism in Practice	292	300904.2	Advanced Food Science and Technology	240
200996.1	Sport Entertainment	343	300905.2	Advanced Immunology	241
200997.1	Developing Sport Professionals	270	300910.2	Advanced Science Project C	243
200998.1	Strategic Sport Leadership	344	300912.2	Molecular Pharmacokinetics	318
201000.1	The World of Sport Business	351	300917.2	Global Nutrition, Food and Community	288
201001.1	Our Sporting Future	321	300918.4	Invertebrate Biology	305
			300920.2	Pharmacological Biochemistry	323
			300921.2	Plant Health and Biosecurity	326
			300923.2	Quantum Physics	332
			300928.2	Consumer Issues in Nutrition	263

Unit	Description	Page	Unit	Description	Page
300929.1	Aquatic Ecology	249	301365.1	Probabilistic Graphical Models	330
300933.2	Nutrition and Health 1	321	301387.1	Research Preparation in Post Graduate Studies	335
300934.2	Nutrition and Health 2	321	301389.1	Agriculture, Food and Health	245
300935.3	Evidence and Crime Scene Management	279	301394.1	Mortuary Practice	319
300939.4	Sustainability and Risk Engineering (PG)	345	400881.3	Functional Anatomy	286
300959.2	Mangamai'bangawarra: Indigenous Science	314	401075.2	Major Incident Management	312
300961.4	Social Computing	340	401077.2	Introduction to Biostatistics	302
300978.2	Marine and Aquatic Ecology	314	401085.2	Scholarship for Practice Change in Health Care	337
300979.2	Principles of Zoology	329	401086.1	Writing for Publication	360
300980.2	Principles of Evolution	329	401168.1	Evidence Based Health Care	280
300992.3	Water and Wastewater Treatment	356	401174.1	Epidemiology of Non-Communicable Diseases	277
301002.3	Specialised Software Applications	342	401175.1	Analytic Approaches in Epidemiology	247
301003.3	Sustainable Systems	345	401176.1	Statistical Methods in Epidemiology	343
301008.3	Advanced Composite Structures	239	401178.1	Controversies in Epidemiology	264
301009.3	Advanced Timber Structures	244	401179.2	Data Management and Programming for Epidemiology	269
301010.3	Advanced Applied Mechanics	238	401266.2	Experimental Design and Analysis PG A	281
301011.4	Advanced Highway Infrastructure	241	401267.2	Experimental Design and Analysis PG B	281
301012.3	Water Resources Systems Analysis	356	401414.1	Advanced Sport and Exercise Science	243
301013.3	Advanced Statistical Hydrology	243	500050.1	Biodiversity (UG Cert)	254
301015.3	Deep Foundations	269	500051.1	Management of Aquatic Environments (UG Cert)	313
301017.3	Advanced Waste Management	245	500052.1	Water Quality Assessment and Management (UG Cert)	356
301018.3	Mechanical System Design	316	500053.1	Environmental Issues and Solutions (UG Cert)	277
301019.3	Advanced Dynamic Systems	240	63178.2	Social and Political Developments in Contemporary China	340
301020.3	Advanced Mobile Robotics	241	700033.5	Biometry (WSTC)	254
301021.3	Advanced Thermal and Fluid Engineering	244	700035.5	Physics 1 (WSTC)	325
301022.3	Advanced Computer Aided Engineering	239	700096.4	Integrated Science (WSTC)	298
301023.3	Advanced Computational Fluid Dynamics	239	700098.3	Introduction to Physiology (WSTC)	304
301024.3	Advanced Numerical Methods in Engineering	242	700099.3	Resource Sustainability (WSTC)	336
301025.3	Advanced Power Quality	242	700121.4	Essential Chemistry 1 (WSTC)	278
301026.3	Advanced Smart Grids and Distributed Generation	243	700173.2	Tertiary Study Skills in Science (WSTC Prep)	346
301031.3	Computer Algebra	263	700230.2	Academic Skills for Science (WSTC Prep)	237
301042.2	Cloud Computing	261	700231.3	Fundamentals of Science (WSTC Prep)	286
301069.3	Research Stories	335	700232.3	Focus on Biology (WSTC Prep)	283
301070.3	Logic, Rhetoric and Argumentation	312	700287.1	Interpreting Data In Science (WSTC Prep)	301
301071.3	Introduction to Critical Thinking	302	800192.1	Neuroscience Methods	320
301072.4	Innovation Lab	297	800195.2	Researching our Changing Environment	336
301096.2	Horticultural Production Systems	292	800196.1	Rethinking Culture and Society	337
301097.2	Greenhouse Technology for Food Sustainability	289	800215.1	Applied research with marginalised populations and sensitive health topics	248
301098.2	Analysis of Agricultural Supply and Demand	246	800216.1	Researching Post-Capitalist Possibilities (PhD Summer School)	336
301106.2	Mathematical Investigations	315	800218.2	Researcher Development 1: Reading, Writing, and the Business of Research	335
301108.2	Thinking About Data	351	800219.2	Writing Beyond the Academy: Knowledge Translation and Public Audience Communication	359
301110.2	Applications of Big Data	248	800220.3	Researcher Development 2: Proposing and Justifying Research	335
301111.3	Discovery Project	272	800225.1	Clinical Research in Health Science	261
301123.2	Management Analytics	312	800228.1	Research Internship and Engagement	334
301127.2	Mortuary Practice	319	900009.3	Programming Design (WSTC)	330
301128.2	Advanced Mortuary Practice	241	900010.3	Accounting Fundamentals (WSTC)	238
301161.2	Work Integrated Learning in Science	358	900011.3	Statistics for Academic Purposes (WSTC)	343
301175.2	Internet of Things	300	900021.3	Academic English (WSTC)	237
301176.2	Advanced Mathematical Investigations	241	900023.3	Business Studies (WSTC)	256
301177.2	Mathematical Proof and Reasoning	315	900024.3	Chemistry (WSTC)	257
301196.2	Advanced Topics in Artificial Intelligence	244	900028.3	Computer Studies (WSTC)	263
301218.2	Global Citizenship and Engagement	287	900029.4	Cultural Perspectives (WSTC)	268
301236.2	Advanced Topics in Cybersecurity	244	900030.4	Economics (WSTC)	272
301247.3	A Cosmic Perspective	236	900051.3	Computer Literacy (WSTC)	263
301248.3	Space Instrumentation, Technology and Communication	341	900053.3	Foundations of Science (WSTC)	285
301249.2	Space Science, Planetary Science and Meteorology	341	900056.3	The Structure of English (WSTC)	350
301263.2	Protected Cropping Climate Control and Technology	330	900076.2	Advanced Computer Studies (WSTC)	239
301266.1	Biotic interactions	254	900077.2	Australian Studies (WSTC)	253
301268.1	Global Change Ecology	287			
301275.1	Internet of Things for the Environment	300			
301277.1	Protected Cropping Plant Nutrition	330			
301312.1	Applied Machine Learning	248			
301353.1	Introduction to Physiology	304			
301356.1	Pathological Basis of Disease	322			
301363.1	Advanced Cloud Computing	239			

Unit	Description	Page
900079.2	Foundation Physics 1 (WSTC)	284
900080.2	Foundation Physics 2 (WSTC)	285
900081.2	Health Communication (WSTC)	290
900083.3	Introduction to the Australian Legal System (WSTC)	305
900084.2	Introductory Programming (WSTC)	305
900086.3	Mathematics 2 (WSTC)	315
900087.3	Mathematics 3 (WSTC)	315
900088.2	Mathematics for Health Science (WSTC)	315
900089.2	Organisation for Tertiary Study (WSTC)	321
900090.3	Science for Health Professionals (WSTC)	338
900091.2	Studies of Society (WSTC)	344
900097.1	Academic Skills for Arts (WSTC)	237
900098.1	Academic Skills for Business (WSTC)	237
900099.1	Academic Skills for Health Science (WSTC)	237
900100.1	Academic Skills for Information Communications Technology (WSTC)	237
900101.1	Academic Skills for Science (WSTC)	238
900104.2	Focus on Biology (WSTC)	283
900105.1	Fundamentals of Science (WSTC)	286
900106.1	Health Care Environments (WSTC)	289
900107.2	Introduction to Academic Communication 1 (WSTC)	301
900108.2	Introduction to Academic Communication 2 (WSTC)	301
900109.1	Key Ideas in Arts and Social Sciences (WSTC)	309
900112.1	Skills for Health Science (WSTC)	339
900114.1	Introductory Business Mathematics (WSTC)	305
900115.1	Practical Mathematics (WSTC)	328
900120.1	English for International Students 1 (WSTC)	274
900121.1	English for International Students 2 (WSTC)	275
900123.1	Psychological Foundations of Health (WSTC)	331
900126.1	Communication Skills for Health Science 1 (WSTC)	262

Index for units by unit description order

Unit	Description	Page	Unit	Description	Page
			100244.2	Ancient Western Culture: Periclean Athens	247
			300834.2	Animal Health and Welfare	248
101796.1	19th Century American Literature	236	300898.4	Appendicular Skeleton	248
102099.1	20th Century American Literature	236	301110.2	Applications of Big Data	248
301247.3	A Cosmic Perspective	236	301312.1	Applied Machine Learning	248
101882.1	A History of Modern Global Buddhism	236	800215.1	Applied research with marginalised populations and sensitive health topics	248
101681.6	Abnormal Psychology	236			
200193.3	Abstract Algebra	236	200033.5	Applied Statistics	249
900021.3	Academic English (WSTC)	237	100641.3	Approaches to Text	249
900097.1	Academic Skills for Arts (WSTC)	237	300655.3	Approved Industrial Experience	249
900098.1	Academic Skills for Business (WSTC)	237	300929.1	Aquatic Ecology	249
900099.1	Academic Skills for Health Science (WSTC)	237	100041.2	Arabic 101	249
			100042.2	Arabic 102	250
900100.1	Academic Skills for Information Communications Technology (WSTC)	237	102019.1	Arabic 201	250
			102020.1	Arabic 202	250
700230.2	Academic Skills for Science (WSTC Prep)	237	102021.1	Arabic 203	250
900101.1	Academic Skills for Science (WSTC)	238	102022.1	Arabic 204	250
900010.3	Accounting Fundamentals (WSTC)	238	101949.2	Arabic 301	251
101981.1	Activism, Engagement and Social Change	238	100048.2	Arabic 302 - Arabic Advanced Language and Grammar	251
200897.2	Advanced Analysis and Interpretation	238			
301010.3	Advanced Applied Mechanics	238	100049.2	Arabic 303: Advanced Writing Skills	251
300850.2	Advanced Cell Biology	238	100050.2	Arabic 304: Arabic Advanced Speaking	251
301363.1	Advanced Cloud Computing	239	100052.2	Arabic 306: Arabic Novel and Short Story	251
301008.3	Advanced Composite Structures	239	100054.2	Arabic 308: Language Past and Present	252
301023.3	Advanced Computational Fluid Dynamics	239	101442.2	Asia in the World	252
301022.3	Advanced Computer Aided Engineering	239	100958.2	Australia and the World	252
900076.2	Advanced Computer Studies (WSTC)	239	102004.1	Australian Colonial History	252
300603.5	Advanced Control Systems	239	102516.1	Australian History Around Us	252
300173.5	Advanced Data Networks	240	101872.1	Australian Indigenous History from Federation to Reconciliation	252
301019.3	Advanced Dynamic Systems	240			
300601.5	Advanced Electrical Machines and Drives	240	101919.1	Australian Indigenous History: From first contact to 'dying race'	253
300904.2	Advanced Food Science and Technology	240			
300604.5	Advanced Geotechnical Engineering	240	102738.1	Australian Politics and Active Citizenship	253
301011.4	Advanced Highway Infrastructure	241	900077.2	Australian Studies (WSTC)	253
300905.2	Advanced Immunology	241	100849.4	Australian Textual Studies	253
301176.2	Advanced Mathematical Investigations	241	200818.1	Bank Management	253
300891.2	Advanced Medicinal Chemistry	241	101449.2	Bilingualism and Biculturalism	253
301020.3	Advanced Mobile Robotics	241	102525.1	Bilingualism and Education	254
301128.2	Advanced Mortuary Practice	241	500050.1	Biodiversity (UG Cert)	254
301024.3	Advanced Numerical Methods in Engineering	242	700033.5	Biometry (WSTC)	254
			301266.1	Biotic interactions	254
300851.1	Advanced Physiology	242	102570.1	Books that Changed how we Think	255
301025.3	Advanced Power Quality	242	300836.2	Botany	255
101689.4	Advanced Research Methods	242	101684.5	Brain and Behaviour	255
300599.5	Advanced Robotics	242	200088.3	Brand and Product Management	255
300910.2	Advanced Science Project C	243	101886.2	Brave New World: Negotiating Social Change in the 21st Century	255
300596.5	Advanced Signal Processing	243			
301026.3	Advanced Smart Grids and Distributed Generation	243	101756.2	Bridging the Gap: Re-engaging Indigenous Learners	255
401414.1	Advanced Sport and Exercise Science	243	102079.1	Britain in the Age of Botany Bay, 1760-1815	256
301013.3	Advanced Statistical Hydrology	243			
300594.6	Advanced Structural Analysis	244	200896.3	Business Analysis Seminars	256
301021.3	Advanced Thermal and Fluid Engineering	244	900023.3	Business Studies (WSTC)	256
301009.3	Advanced Timber Structures	244	200091.4	Business to Business Marketing	256
301196.2	Advanced Topics in Artificial Intelligence	244	200158.4	Business, Society and Policy	256
301236.2	Advanced Topics in Cybersecurity	244	102492.1	Catastrophe: The Environmental History of the Ancient and Modern World	257
300694.4	Advanced Topics in ICT	244			
300252.4	Advanced Topics in Networking	245	102835.1	Catastrophe: The Environmental History of the Ancient World	257
301017.3	Advanced Waste Management	245			
300595.5	Advanced Water Engineering	245	900024.3	Chemistry (WSTC)	257
101295.2	Aesthetics	245	102205.2	Children's and Young Adult Fiction	257
301389.1	Agriculture, Food and Health	245	101265.3	Children's Culture	257
300852.2	Air Quality and Climate Change	246	101626.5	Children's Literature: Image and Text	257
100985.2	American Foreign Policy Since 1945	246	100056.2	Chinese 101	258
100966.3	American History, 1898-1945	246	100057.2	Chinese 102	258
301098.2	Analysis of Agricultural Supply and Demand	246	102024.1	Chinese 201	258
			102025.1	Chinese 202	258
300830.3	Analysis of Change	246	102026.1	Chinese 203	258
101646.3	Analysis of Spatial Data	247	102027.1	Chinese 204	259
401175.1	Analytic Approaches in Epidemiology	247	101951.1	Chinese 301	259
100846.2	Analytical Reading and Writing	247	100063.2	Chinese 302	259
300897.3	Anatomy of the Head and Neck	247	100064.2	Chinese 303: Twentieth-Century Chinese Literature	259

Unit	Description	Page	Unit	Description	Page
100065.2	Chinese 304: Chinese Classical Literature	260	102253.2	Digital Social Research in Action	271
100066.2	Chinese 305: Chinese Cinema	260	101946.1	Discourse Analysis	271
100510.2	Chinese 306: Traditional Chinese Thought	260	102625.1	Discovering language: Everything you've ever wanted to know but never asked	271
100067.2	Chinese 307: The Cultural Context of China	260	301111.3	Discovery Project	272
102192.1	Cinema and Censorship	260	102736.1	Diversity, Language and Culture	272
101984.1	Cinema and Experience	260	102787.1	Doing Sociology	272
101589.3	Cities: Introduction to Urban Studies	260	200916.1	Economic and Financial Modelling	272
101968.1	Civil Society in Contemporary China	261	900030.4	Economics (WSTC)	272
102420.1	Classics of Modern Philosophy	261	200537.4	Economics and Finance Engagement Project	273
101870.1	Climate Change and Culture	261	300856.2	Ecosystem Carbon Accounting	273
800225.1	Clinical Research in Health Science	261	102435.1	Editing and Publishing	273
301042.2	Cloud Computing	261	101263.1	Education and Transformation	273
101677.5	Cognitive Processes	262	101663.2	Education for Sustainability	273
900126.1	Communication Skills for Health Science 1 (WSTC)	262	101661.2	Education in a Cosmopolitan Society	274
101595.3	Community and Social Action	262	102575.2	Emergency and Disaster Management	274
102003.1	Comparative Nationalism	262	100860.3	Emotions, Culture and Community	274
102509.2	Computational Thinking across the STEM Curriculum	262	100861.3	Empire: European Colonial Rule and its Subjects, 1750-1920	274
301031.3	Computer Algebra	263	102438.1	English as an International Language	274
900051.3	Computer Literacy (WSTC)	263	900120.1	English for International Students 1 (WSTC)	274
900028.3	Computer Studies (WSTC)	263	900121.1	English for International Students 2 (WSTC)	275
200084.2	Consumer Behaviour	263	102439.1	English Language Analysis	275
102413.1	Consumer Culture	263	102476.1	English Language Linguistics	275
300928.2	Consumer Issues in Nutrition	263	102813.1	English Talk	275
201099.1	Consumers, Firms and Markets	264	102812.1	English Text	275
102048.1	Contemporary Childhoods	264	101974.1	Enlightenment and Revolution	275
200568.3	Contemporary Management Issues	264	200614.3	Enterprise Industrial Relations	275
100960.2	Contemporary Society	264	200911.1	Enterprise Innovation and Markets	276
101751.2	Contextualising Indigenous Australia (Day Mode)	264	200909.2	Enterprise Law	276
401178.1	Controversies in Epidemiology	264	200912.1	Enterprise Leadership	276
101799.2	Convicts and Settlers - Australian History 1788 - 1840	265	300821.2	Environment and Health	276
102853.1	Cool Green Cities	265	300857.1	Environmental Geochemistry	276
200923.1	Corporations, Economic Power and Policy	265	500053.1	Environmental Issues and Solutions (UG Cert)	277
200924.3	Cost Benefit Analysis	265	300840.2	Environmental Planning and Climate Change	277
200862.1	Creating Change and Innovation	265	300858.2	Environmental Risk Management	277
100856.4	Creative Non-Fiction	266	300872.2	Epidemiology	277
100859.3	Creative Writing Project	266	401174.1	Epidemiology of Non-Communicable Diseases	277
102437.1	Creative Writing: Practical Skills and Knowledge	266	300800.3	Essential Chemistry 1	278
102436.2	Creative Writing: The Imaginative Life	266	700121.4	Essential Chemistry 1 (WSTC)	278
102211.3	Creativity, Innovation and Design Thinking	266	101623.1	Ethical Futures	278
102315.1	Crime Fiction	266	102250.3	Ethical Leadership	278
102038.2	Crime Prevention and Community	267	101466.2	Ethical Traditions in Islam	279
102710.1	Crime, Media, Culture	267	101915.1	Ethics and Philosophy	279
300871.2	Culinary Science	267	102007.1	Ethics in Historical Perspective	279
101590.3	Cultural and Social Geographies	267	102346.2	Ethnographies of Southeast Asia and the Pacific	279
101967.1	Cultural History of Books and Reading	267	100897.2	Everyday Life	279
900029.4	Cultural Perspectives (WSTC)	268	300935.3	Evidence and Crime Scene Management	279
101562.4	Culture and Crime	268	401168.1	Evidence Based Health Care	280
102185.1	Culture, Discourse and Meaning	268	102206.1	Experience-based Outdoor Education	280
102479.1	Cultures of Crime and Punishment	268	101874.3	Experiential Learning in Communities (ELC)	280
102529.2	Cyber Justice (UG)	268	100013.5	Experimental Design and Analysis	280
401179.2	Data Management and Programming for Epidemiology	269	401266.2	Experimental Design and Analysis PG A	281
102421.2	Data, Mediation, Power	269	401267.2	Experimental Design and Analysis PG B	281
100996.3	Death and Culture	269	300879.2	Experimental Foods	281
301015.3	Deep Foundations	269	100584.2	Experimental Writing and Electronic Publication	281
100903.2	Democracy in Asia	269	100254.3	Exploring Local History	281
200918.1	Design Thinking for Creativity	269	200589.3	Export Strategy and Applications	282
200997.1	Developing Sport Professionals	270	102143.2	Families and Intimate Life	282
101682.8	Developmental Psychology	270	300804.2	Feeding the Planet	282
102188.1	Dictators, Democrats and Dreamers: Indonesia 1942 to now	270	100866.3	Film and Drama	282
102344.2	Different Ways of Being in the World: Introduction to Social Anthropology	270	200910.2	Financing Enterprises	282
102410.2	Digital Cultures	271	102916.1	First Peoples and Criminal Justice	283
101250.3	Digital Futures	271	700232.3	Focus on Biology (WSTC Prep)	283
102425.1	Digital Humanities and Research Methods (UG)	271			

Unit	Description	Page	Unit	Description	Page
900104.2	Focus on Biology (WSTC)	283	102319.2	Indonesian 201	295
200992.2	Food and Beverage Management	283	102327.1	Indonesian 202	296
300805.2	Food Science 1	284	102773.1	Indonesian 301	296
300842.3	Food Science 2	284	102774.1	Indonesian 302	296
102305.1	Food: A Cultural History	284	102775.1	Indonesian 303	296
102621.2	Formal and Functional Grammar	284	102776.1	Indonesian 304	296
900079.2	Foundation Physics 1 (WSTC)	284	102331.1	Indonesian 305: Past and Present of Indonesian	296
900080.2	Foundation Physics 2 (WSTC)	285	102332.1	Indonesian 306: Indonesian Literature	297
102735.1	Foundations of Academic English	285	200919.1	Innovation and Professional Practice	297
900053.3	Foundations of Science (WSTC)	285	301072.4	Innovation Lab	297
101754.3	From Corroborees to Curtain Raisers (Day Mode)	285	200917.2	Innovation, Enterprise and Society	297
101755.2	From Ochre to Acrylics to New Technologies	285	300515.6	Instrumentation and Measurement (PG)	297
102520.1	From Vindication to Liberation: A Comparative History of Feminism	285	700096.4	Integrated Science (WSTC)	298
400881.3	Functional Anatomy	286	101950.1	Intercultural Communication	298
700231.3	Fundamentals of Science (WSTC Prep)	286	200590.2	International Business Project	298
900105.1	Fundamentals of Science (WSTC)	286	200626.3	International Business Strategy	298
102602.1	Gender and Genre	286	200962.2	International Criminal Law and Justice	298
102733.2	Genders and sexualities: beyond the binary	287	200621.3	International Human Resource Management	299
300844.2	General Microbiology	287	200961.2	International Human Rights Law	299
101694.3	Geographies of Migration	287	200094.4	International Marketing	299
301268.1	Global Change Ecology	287	102189.1	International Organisations and Global Governance	299
301218.2	Global Citizenship and Engagement	287	102190.1	International Relations of Southeast Asia	300
102576.2	Global Health, Migration and Development	288	200963.2	International Space Law - Commercial Aspects	300
300917.2	Global Nutrition, Food and Community	288	102193.1	International Special Study	300
101735.2	Global Politics	288	301175.2	Internet of Things	300
102345.2	Global Structures, Local Cultures	288	301275.1	Internet of Things for the Environment	300
200815.2	Globalisation and Sustainability	288	102212.3	Internship and Community Engagement	301
301097.2	Greenhouse Technology for Food Sustainability	289	700287.1	Interpreting Data In Science (WSTC Prep)	301
200925.1	Growth, Cycles and Crises	289	900107.2	Introduction to Academic Communication 1 (WSTC)	301
102296.1	Hadith: The Prophetic Tradition	289	900108.2	Introduction to Academic Communication 2 (WSTC)	301
101716.3	Healing and Culture	289	300825.2	Introduction to Anatomy	301
900106.1	Health Care Environments (WSTC)	289	401077.2	Introduction to Biostatistics	302
900081.2	Health Communication (WSTC)	290	102709.2	Introduction to Criminal Justice	302
101193.5	Health Psychology	290	301071.3	Introduction to Critical Thinking	302
101610.3	Health, Illness and Biomedicine: A Sociological Perspective	290	102913.1	Introduction to Culture and Society	302
102043.1	Historical Linguistics	290	200052.7	Introduction to Economic Methods	302
102766.1	Historical Methodologies	290	100964.3	Introduction to Film Studies	303
100015.7	History and Philosophy of Psychology	291	300134.3	Introduction to Information Technology	303
102583.1	History of Ideas	291	200591.2	Introduction to International Business	303
100507.4	History of Modern China to 1949	291	101956.1	Introduction to International Relations	303
102184.1	History of Muslim Civilisations and Ideas	291	100194.2	Introduction to Interpreting	303
102734.1	History of Religion	291	101945.2	Introduction to Linguistics	303
101991.1	History of Sexuality	291	101907.1	Introduction to Literary Studies	304
102814.1	History of the Ancient World	292	101918.1	Introduction to Philosophy	304
102842.1	History of the People's Republic of China	292	300818.1	Introduction to Physiology	304
101611.3	Home and Away: Ethnicity and Migration in Australia	292	301353.1	Introduction to Physiology	304
301096.2	Horticultural Production Systems	292	700098.3	Introduction to Physiology (WSTC)	304
200995.2	Hospitality and Tourism in Practice	292	102186.1	Introduction to Stylistics	304
200561.4	Hospitality Management Applied Project	293	900083.3	Introduction to the Australian Legal System (WSTC)	305
200989.2	Hospitality Places and Spaces	293	100195.2	Introduction to Translation	305
200994.2	Hospitality Profitability and Entrepreneurship	293	900114.1	Introductory Business Mathematics (WSTC)	305
102661.1	How to Write History	293	900084.2	Introductory Programming (WSTC)	305
101676.4	Human Learning	293	300918.4	Invertebrate Biology	305
200740.5	Human Resource and Industrial Relations Strategy	293	101467.2	Islam in Southeast Asia	305
200859.1	Human Resource Development	294	102294.1	Islam in the Modern World	306
101988.1	Human Rights and Culture	294	101822.3	Islam in the West	306
102577.2	Humanitarian and Development Agendas and Progress	294	101468.2	Islam, Media and Conflict	306
101612.4	Identity and Belonging	294	102823.1	Islam: Past, Present and Future	306
300847.2	Immunology	294	101465.2	Islamic Law in a Changing World	306
101905.3	Indigenous Cultures: A Global Perspective	295	102297.1	Islamic Revivalism in the Globalised World	307
101878.2	Indigenous Landscapes	295	101331.3	Issues in World Development: Rich World, Poor World	307
102805.1	Indigenous Landscapes	295	100085.2	Japanese 101	307
102316.1	Indonesian 101	295	100086.3	Japanese 102	307
102326.2	Indonesian 102	295	102028.1	Japanese 201	307

Unit	Description	Page	Unit	Description	Page
102029.1	Japanese 202: Speaking and Listening	307	102343.1	Napoleon: the Making of a Legend	320
102030.1	Japanese 203	308	200613.3	Negotiation, Bargaining and Advocacy	320
102804.1	Japanese 204: Speaking and Listening	308	300754.5	Neuroanatomy	320
101952.1	Japanese 301	308	800192.1	Neuroscience Methods	320
100092.3	Japanese 302	308	102662.1	New Genres in Research Writing	320
100093.2	Japanese 303: Contemporary Culture and Society	308	300933.2	Nutrition and Health 1	321
101970.1	Japanese 304: Discourse in Japanese	309	300934.2	Nutrition and Health 2	321
101971.1	Japanese 305: Advanced Reading and Writing	309	900089.2	Organisation for Tertiary Study (WSTC)	321
102219.1	Japanese 306: Japanese Popular Culture	309	200585.4	Organisational Behaviour	321
100001.3	Keeping the Past	309	200157.4	Organisational Learning and Development	321
900109.1	Key Ideas in Arts and Social Sciences (WSTC)	309	201001.1	Our Sporting Future	321
102781.1	Labour and Culture	310	300889.1	Pathological Basis of Disease	322
300875.2	Landuse and the Environment	310	300889.2	Pathological Basis of Disease	322
102416.1	Law, Literature and Culture	310	301356.1	Pathological Basis of Disease	322
200863.1	Leadership and Entrepreneurship	310	200860.1	People, Work and Society	323
200855.3	Leadership in a Complex World	310	101680.5	Perception	323
102161.2	Leading Change	310	300196.5	Personal Communication Systems	323
101259.3	Learning and Creativity	310	101679.4	Personality	323
101758.2	Learning through Indigenous Australian Community Service (Day Mode)	311	300920.2	Pharmacological Chemistry	323
101724.2	Literary Animals	311	300884.3	Pharmacology	324
102581.1	Literary Theory	311	100275.4	Philosophies of Love and Death	324
102572.1	Literature and Decolonisation	311	102417.1	Philosophy and Environment	324
100875.4	Literature and Philosophy	311	102616.1	Philosophy and Literature	324
101739.3	Literature and Trauma	311	102493.1	Philosophy of History	324
301070.3	Logic, Rhetoric and Argumentation	312	102582.1	Philosophy of History and Politics	325
101733.2	Looking at Global Politics Through Film	312	102619.1	Philosophy of Nature	325
200926.1	Macroeconomic Measures and Models	312	102789.1	Philosophy of Race and Racism	325
401075.2	Major Incident Management	312	101965.2	Philosophy of Religion	325
301123.2	Management Analytics	312	102620.1	Philosophy, History and Interpretation	325
200571.4	Management Dynamics	312	700035.5	Physics 1 (WSTC)	325
500051.1	Management of Aquatic Environments (UG Cert)	313	101752.2	Pigments of the Imagination	326
200376.4	Managing and Developing Careers	313	101593.4	Planning the City: Development, Community and Systems	326
200864.2	Managing in the Global Environment	313	300921.2	Plant Health and Biosecurity	326
200865.2	Managing Operations	313	300865.2	Plant Physiology	326
200300.2	Managing People at Work	313	101797.2	Political Terror	327
300959.2	Mangamai'bangawarra: Indigenous Science	314	100277.4	Politics of Australia and Asia Relations	327
300978.2	Marine and Aquatic Ecology	314	100278.2	Politics of Post-War Japan	327
200086.3	Marketing Communications	314	100882.3	Politics of Sex and Gender	327
200096.3	Marketing Planning Project	314	101985.1	Politics, Power and Resistance	327
200083.3	Marketing Principles	315	101987.1	Postcolonial Australian Cinema	327
200592.2	Marketing Research	315	102434.1	Postcolonial Literatures: Partition, Dependence and Exile	328
301106.2	Mathematical Investigations	315	300869.2	Postharvest	328
301177.2	Mathematical Proof and Reasoning	315	102348.2	Power as a Cultural System	328
900086.3	Mathematics 2 (WSTC)	315	300197.5	Power System Planning and Economics	328
900087.3	Mathematics 3 (WSTC)	315	900115.1	Practical Mathematics (WSTC)	328
900088.2	Mathematics for Health Science (WSTC)	315	102618.1	Practical Philosophy	329
102489.1	Meaning in Language	316	102490.1	Pragmatics	329
301018.3	Mechanical System Design	316	200525.3	Principles of Economics	329
300600.5	Mechatronic System Design	316	300980.2	Principles of Evolution	329
300892.3	Medical Science Project	316	200964.1	Principles of International Law	329
102626.1	Medieval and Early Modern Literature	316	300979.2	Principles of Zoology	329
102861.1	Medieval Europe from the Fall of the Roman Empire to the Reformation	317	102036.2	Prisons, Punishment and Criminal Justice	330
101909.1	Methods of Reading	317	301365.1	Probabilistic Graphical Models	330
102862.1	Migration and Social Change	317	200575.3	Processes and Evaluation in Employment Relations	330
101978.1	Modern Australian Poetry and Poetics	317	900009.3	Programming Design (WSTC)	330
102000.1	Modern European History and Politics	317	301263.2	Protected Cropping Climate Control and Technology	330
100271.3	Modern Japanese History	318	301277.1	Protected Cropping Plant Nutrition	330
101033.4	Modernism	318	900123.1	Psychological Foundations of Health (WSTC)	331
101001.3	Modernity and Cinema	318	102350.3	Psychology and the Online World	331
300817.2	Molecular Biology	318	100023.7	Psychology of Language	331
300912.2	Molecular Pharmacokinetics	318	101183.4	Psychology: Behavioural Science	331
301127.2	Mortuary Practice	319	101184.4	Psychology: Human Behaviour	331
301394.1	Mortuary Practice	319	102574.2	Public Health in Complex Emergencies (Advanced)	332
101678.5	Motivation and Emotion	319	200045.4	Quantitative Project	332
102495.1	Mystical Islam: The Emergence of Sufism in World History	319	300831.4	Quantitative Thinking	332
			300923.2	Quantum Physics	332
			102191.1	Queer Culture	332

Unit	Description	Page	Unit	Description	Page
101650.3	Race in Literature	333	200587.2	Strategic Management	344
102078.1	Reading Ireland in the 1990s: Fiction, Poetry, Drama	333	200087.3	Strategic Marketing Management	344
200037.4	Regression Analysis & Experimental Design	333	200998.1	Strategic Sport Leadership	344
101992.1	Religion and the Emergence of Modern Politics	333	101948.4	Structure of Language	344
102002.1	Religion and the Origins of Modern Science	333	900091.2	Studies of Society (WSTC)	344
101005.4	Representing Crime	333	102187.1	Sultans, Colonists and Nationalists: Indonesia C1200-1942	345
101917.1	Representing Everyday Life in Literary and Visual Cultures	334	300939.4	Sustainability and Risk Engineering (PG)	345
800228.1	Research Internship and Engagement	334	300791.2	Sustainable Food Production	345
102728.1	Research into Practice: bridging the clinician-researcher divide in applied and creative therapies	334	101569.3	Sustainable Futures	345
102044.1	Research Methods in Linguistics	334	301003.3	Sustainable Systems	345
301387.1	Research Preparation in Post Graduate Studies	335	102796.1	Teachers as Change Makers	345
301069.3	Research Stories	335	700173.2	Tertiary Study Skills in Science (WSTC Prep)	346
800218.2	Researcher Development 1: Reading, Writing, and the Business of Research	335	102477.1	TESOL Curriculum Design	346
800220.3	Researcher Development 2: Proposing and Justifying Research	335	102474.1	TESOL Teaching Methodology	346
101906.2	Researching Culture	335	100968.3	Texts and Traditions	346
800195.2	Researching our Changing Environment	336	200993.2	The Accommodation Industry	346
800216.1	Researching Post-Capitalist Possibilities (PhD Summer School)	336	102349.2	The Anthropologies of Gender and Sexualities	346
300810.2	Resource Sustainability	336	101957.2	The Asian Century	347
700099.3	Resource Sustainability (WSTC)	336	200549.3	The Australian Macroeconomy	347
800196.1	Rethinking Culture and Society	337	101009.4	The Body in Culture	347
101759.2	Rethinking Research with Indigenous Australians: Independent Study Project (Day Mode)	337	102207.1	The Brain and Learning	347
101753.3	Revaluing Indigenous Economics (Day Mode)	337	200988.2	The Business of Hospitality	347
200739.2	Reward and Performance Management	337	101591.3	The Economics of Cities and Regions	347
401085.2	Scholarship for Practice Change in Health Care	337	101867.2	The Ethical Life	348
900090.3	Science for Health Professionals (WSTC)	338	102507.1	The Gothic	348
102209.1	Scientific Discovery and Invention	338	101782.2	The History and Politics of Contemporary Central Asia	348
101451.2	Second Language Acquisition	338	102491.1	The History of Southeast Asia	348
200921.1	Security Analysis and Business Valuation	338	102584.1	The Image of Thought: Art, Film and Philosophy	348
200980.1	Security of Ideas	338	101783.2	The International Relations of the Middle East Since 1945	348
102788.1	Self and Society	339	101757.2	The Making of the 'Aborigines'	349
200898.3	Seminal Papers in Business	339	200098.4	The Markets of Asia	349
200991.2	Service Industry Analytics	339	101795.3	The Musical	349
101964.1	Sexual/Textual Politics in Victorian Women's Writing	339	100893.4	The Novel	349
101791.2	Short Fiction in the Americas	339	102005.1	The Politics of Civilisation	349
900112.1	Skills for Health Science (WSTC)	339	101911.2	The Qur'an: An Introduction	349
63178.2	Social and Political Developments in Contemporary China	340	101990.1	The Racial State	349
300961.4	Social Computing	340	200915.3	The Service Enterprise	350
101683.4	Social Psychology	340	102042.1	The Sound of Language	350
102194.3	Social Research in the Digital World	340	101880.1	The Space of Literature	350
102844.1	Society, Culture and Human Diversity	340	900056.3	The Structure of English (WSTC)	350
101450.2	Sociolinguistics	341	102765.1	The Value of Literature	350
101359.7	Sociology of Religion	341	201000.1	The World of Sport Business	351
300823.2	Soils	341	102615.1	Theoretical Philosophy	351
301248.3	Space Instrumentation, Technology and Communication	341	101913.2	Theories of Authority	351
301249.2	Space Science, Planetary Science and Meteorology	341	100969.2	Theories of Conflict and Violence	351
200990.1	Special Event Management	342	102571.1	Thinkers That Changed the World	351
100201.3	Special Study in Languages and Linguistics	342	301108.2	Thinking About Data	351
102379.1	Special Topics in Philosophy	342	101989.1	Thinking Cinema	352
301002.3	Specialised Software Applications	342	102737.1	Thinking Critically About Texts and Society	352
201079.1	Sport and Society	342	200038.3	Time Series and Forecasting	352
200996.1	Sport Entertainment	343	300819.2	Topics in Physiology	352
200751.2	Sport Management Applied Project	343	102383.1	Topics in the History of Philosophy	352
401176.1	Statistical Methods in Epidemiology	343	101848.1	Transnationalism and Migration	352
900011.3	Statistics for Academic Purposes (WSTC)	343	101645.3	Transport, Access and Equity	353
200032.7	Statistics for Business	343	101983.1	Truth and Knowledge	353
			101999.1	Twentieth Century Australia	353
			101798.2	Understanding Freedom	353
			300812.2	Understanding Landscape	353
			101731.3	Understanding Power	353
			102601.1	Understanding Race	354
			101979.1	Understanding Visual Culture	354
			101866.1	United States Government and Politics	354
			300860.2	Urban Environment	354
			100291.5	Urban Life/Urban Culture	354
			101314.4	Urban Management Practice: Governance and Power in the City	354
			300861.2	Vertebrate Biodiversity	355

Unit	Description	Page
101898.1	Violence in Everyday Life	355
102423.1	War	355
101993.1	War and Society in the Twentieth Century	355
102142.1	Warlords, Artists and Emperors: Power and Authority in Japanese History	355
300992.3	Water and Wastewater Treatment	356
300814.2	Water Quality Assessment and Management	356
500052.1	Water Quality Assessment and Management (UG Cert)	356
301012.3	Water Resources Systems Analysis	356
101912.1	Western Political Philosophy	356
102585.1	What is Islam?	357
101010.3	What is the Human?	357
102768.1	When Worlds Collide: European Empires and the World, c.1600-1950	357
101762.1	Who do you think you are? (Day Mode)	357
101879.2	Women with Muslim Identity	357
101977.1	Women, Travel and Empire	357
102374.1	Women's Writing	358
301161.2	Work Integrated Learning in Science	358
102414.1	Working Grammar	358
200914.1	Working in Professions	358
101669.3	World Literature in Translation	358
102500.2	Writing and Form	359
102772.1	Writing and Reading Sci-Fi and Fantasy	359
101670.3	Writing and Society	359
800219.2	Writing Beyond the Academy: Knowledge Translation and Public Audience Communication	359
100896.3	Writing Fiction	359
100895.4	Writing For Performance	359
401086.1	Writing for Publication	360
101011.3	Writing Poetry	360
100582.3	Writing Portfolio	360
102501.2	Writing, Sounds, Images, Texts	360
101830.2	WWII in Asia and the Pacific	360
101662.1	Young People, Their Futures and Education	361
100298.3	Youth Cultures and Moral Panics	361