

BACHELOR OF SCIENCE/ BACHELOR OF INTERNATIONAL STUDIES (3764)

Approved Abbreviation: BSc/BIntlSt

Western Sydney University Program Code: 3764

AQF Level: 7

CRICOS Code: 068793M

This program applies to students who commenced in 2022 or later.

Students should follow the program structure for the session start date relevant to the year they commenced.

For Commencement Year 2020 - 2021 - please refer to 3764.1
Bachelor of Science/ Bachelor of International Studies (<http://handbook.westernsydney.edu.au/hbook/course.aspx?course=3764.1>)

For Commencement Year 2016 - 2019 - please refer to 3660.6
Bachelor of Science/ Bachelor of International Studies (<http://handbook.westernsydney.edu.au/hbook/course.aspx?course=3660.6>)

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 program 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 minor 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 minor 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.

Program Advice

science@westernsydney.edu.au

Prospective students should visit the following websites for general enquiries about this program.

Enquire about this program (<https://enquiry.westernsydney.edu.au/courseenquiry/>) | Local Admission (<https://www.westernsydney.edu.au/>)

future/) | International Admission (<https://www.westernsydney.edu.au/international/home/apply/admissions/>) |

Location

Campus	Attendance	Mode	Advice
Parramatta Campus - Victoria Road	Full Time	Internal	See above

Work Integrated Learning

Western Sydney University seeks to enhance student learning experiences by enabling students to engage in the culture, expectations and practices of their profession or discipline. This program includes a placement or other community-based unpaid practical experience.

There is an optional work component available in this program. Please contact the Program Advisor listed above for information.

International students should be aware that if an elective is a requirement of the program but the work itself was not registered with CRICOS, students can still complete these electives but it would be counted towards the work limitation. For more details, refer to the 'Work Integrated Learning (WIL) for international students' website.

Work Integrated Learning (WIL) for international students (https://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/international_student_support/working_in_australia/work_integrated_learning/)

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

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

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

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

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

<http://www.uac.edu.au/>

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

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

International Office (<http://www.westernsydney.edu.au/international/>)

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.

Program 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 subjects 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

Students complete 160 credit points of Bachelor of Science subjects comprising eight Bachelor of Science core subjects, eight Bachelor of Science testamur major subjects and eight BIS subjects as listed in the program structure below.

Early Exit

Students may exit this program on completion of 80 cps with a Diploma in General Science (exit only)

Diploma in General Science (exit only) (<https://hbook.westernsydney.edu.au/archives/2023-2024/programs/diploma-general-science-exit-only/>)

Bachelor of Science Core Subjects

Students should note that core subjects will be allocated based on the Testamur Major chosen and as indicated in the relevant Testamur Major sequence.

Subject	Title	Credit Points	
Bachelor of Science Core Subjects			
Students are required to complete the following three units:			
BIOS 1001	Biodiversity	10	
CHEM 1008	Introductory Chemistry	10	
NATS 1019	Scientific Literacy	10	
Foundation			
Select one of the following (depending on testamur major selected):		10	
BIOS 1012	Cell Biology		
CHEM 1005	Essential Chemistry 2		
Mathematics			
Select one of the following (depending on testamur major selected):		10	
MATH 1003	Biometry		
MATH 1014 Mathematics 1A			
MATH 1026 Quantitative Thinking			
Analytical Science			
Select one of the following (depending on testamur major selected):			10
CHEM 2001	Analytical Chemistry		
NATS 2019	Forensic and Environmental Analysis		
BIOS 2014	Functional Proteins and Genes		
NATS 2025	Natural Science Research Methods		
COMP 1005	Programming Fundamentals		
Work Integrated Learning			
Select one of the following (depending on testamur major selected):			10
NATS 3044	Complex Case Studies in Science		
NATS 3045	Work Internship for Science Professionals		
Core Capstone			
Select one of the following (depending on testamur major selected):			10
COMP 3002	Applications of Big Data		
EART 3001	Biological Adaptation to Climate Change		
NATS 3015	Field Project 1		
NATS 3027	Laboratory Quality Management		
MATH 3006	Mathematical Modelling		
NATS 3038	Quality Assurance and Food Analysis		
Total Credit Points			80

Bachelor of Science Testamur Majors

Students must choose **one** of the following testamur majors:

Agrifood, Testamur Major (T123) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/agrifood-ug-testamur-major/>)

Animal Science, Testamur Major (T054) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/animal-science-ug-testamur-major/>)

Applied Physics, Testamur Major (T078) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/applied-physics-ug-testamur-major/>)

Biology, Testamur Major (T053) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/biology-ug-testamur-major/>)

Chemistry, Testamur Major (T026) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/chemistry-ug-testamur-major/>)

Forensic Science, Testamur Major (T049) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/forensic-science-ug-testamur-major/>)

Innovative Foods, Testamur Major (T124) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/innovative-foods-ug-testamur-major/>)

Sustainable Environmental Futures, Testamur Major (T120) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/sustainable-environmental-futures-ug-testamur-major/>)

Zoology, Testamur Major (T029) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/zoology-ug-testamur-major/>)

Please note that not all Testamur Majors are available at all campuses.

Years 1 to 4

In Years 1 to 4 students complete the four level 1 Bachelor of Arts (BA) core subjects, plus the eight-subject International Relations and Asian Studies major and one of the four-subject language minors listed.

The Four Level 1 Bachelor of Arts (BA) Core Subjects

Subject	Title	Credit Points
HUMN 1052	Australian Politics and Active Citizenship	10
HUMN 1053	Diversity, Language and Culture	10
LANG 1029	Foundations of Academic English	10
LANG 1030	Thinking Critically About Texts and Society	10
Total Credit Points		40

Students must also complete subjects in the following, as per the chosen program structure

Major - International Relations and Asian Studies

International Relations and Asian Studies, Major (0019) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/international-relations-asian-studies-major/>)

Minor

A minor in one of the following languages must be undertaken in conjunction with the major

Arabic, Minor (0003) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/arabic-minor/>)
 Chinese, Minor (0004) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/chinese-minor/>)
 Immersion Language, Minor (0014) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/immersion-language-minor/>)
 Indonesian, Minor (0309) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/indonesian-minor/>)
 International English, Minor (0018) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/international-english-minor/>)
 Japanese, Minor (0021) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/japanese-minor/>)

Note: The following minors have inherent requirements: Arabic, Chinese and Japanese. Please see the link below:

Inherent Requirements (https://www.westernsydney.edu.au/ir/inherent_requirements/inherent_requirements_for_languages_courses/)

Students should seek program advice in relation to the level 2/3 language sequences

For details of International Studies subjects required please see program 1658 Bachelor of International Studies (<https://hbook.westernsydney.edu.au/archives/2023-2024/programs/bachelor-international-studies/>).

Program 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 subjects 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:

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Students complete 160 credit points of Bachelor of Science subjects comprising eight Bachelor of Science core subjects, eight Bachelor of Science testamur major subjects and eight BIS subjects as listed in the program structure below.

Early Exit

Students may exit this program on completion of 80 cps with a Diploma in General Science (exit only)

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Bachelor of Science Core Subjects

Students should note that core subjects will be allocated based on the Testamur Major chosen and as indicated in the relevant Testamur Major sequence.

Subject	Title	Credit Points
Bachelor of Science Core Subjects		
Students are required to complete the following two units:		
CHEM 1008	Introductory Chemistry	20
NATS 1019	Scientific Literacy	
Foundation		
Select two of the following (depending on testamur major selected):		
BIOS 1012	Cell Biology	20
BIOS 1001	Biodiversity	
CHEM 1012	Essential Chemistry	
Mathematics		
Select one of the following (depending on testamur major selected):		
MATH 1003	Biometry	10
MATH 1014	Mathematics 1A	
MATH 1026	Quantitative Thinking	
Analytical Science		
Select one of the following (depending on testamur major selected):		
MATH 2001	Advanced Calculus	10
BIOS 2042	Biochemistry	
NATS 2019	Forensic and Environmental Analysis	
NATS 2042	Science Research Methods	
CHEM 2001	Analytical Chemistry	
PUBH 2010	Epidemiology	
Work Integrated Learning		
Select one of the following (depending on testamur major selected):		
NATS 3044	Complex Case Studies in Science	10
NATS 3045	Work Internship for Science Professionals	

NATS 3008	Complex Forensic Studies	A minor in one of the following languages must be undertaken in conjunction with the major
Core Capstone		
Select the following:	10	Arabic, Minor (0003) (https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/arabic-minor/)
NATS 3055 Practicum 1		Chinese, Minor (0004) (https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/chinese-minor/)

Total Credit Points	80
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Animal Science, Testamur Major (T054) (https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/animal-science-ug-testamur-major/)
Applied Physics, Testamur Major (T078) (https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/applied-physics-ug-testamur-major/)
Biology, Testamur Major (T053) (https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/biology-ug-testamur-major/)
Chemistry, Testamur Major (T026) (https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/chemistry-ug-testamur-major/)
Forensic Science, Testamur Major (T049) (https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/forensic-science-ug-testamur-major/)
Innovative Foods, Testamur Major (T124) (https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/innovative-foods-ug-testamur-major/)
Sustainable Environmental Futures, Testamur Major (T120) (https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/sustainable-environmental-futures-ug-testamur-major/)
Zoology, Testamur Major (T029) (https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/zoology-ug-testamur-major/)

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International Relations and Asian Studies, Major (0019) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/international-relations-asian-studies-major/>)

Minor

Note: The following minors have inherent requirements: Arabic, Chinese and Japanese. Please see the link below:

[Inherent Requirements \(\[https://www.westernsydney.edu.au/ir/inherent_requirements/inherent_requirements_for_languages_courses/\]\(https://www.westernsydney.edu.au/ir/inherent_requirements/inherent_requirements_for_languages_courses/\)\)](https://www.westernsydney.edu.au/ir/inherent_requirements/inherent_requirements_for_languages_courses/)

Students should seek program advice in relation to the level 2/3 language sequences

For details of International Studies subjects required please see program 1658 Bachelor of International Studies (<https://hbook.westernsydney.edu.au/archives/2023-2024/programs/bachelor-international-studies/>).

Recommended Sequence

Course	Title	Credit Points
Year 1		
Autumn session		
Select BA core subject		10
Select BA core subject		10
BIOS 1001	Biodiversity	10
CHEM 1008	Introductory Chemistry	10
	Credit Points	40
Spring session		
Select BA core subject		10
Select BA core subject		10
Select one core Science Mathematics subject of the following (depending on testamur major selected):		10
MATH 1003	Biometry	
MATH 1014	Mathematics 1A	
MATH 1026	Quantitative Thinking	
Select one core Science Foundation subject of the following (depending on testamur major selected):		10
BIOS 1012	Cell Biology	
CHEM 1005	Essential Chemistry 2	
	Credit Points	40
Year 2		
Autumn session		
CULT 1001	Asia in the World	10
NATS 1019	Scientific Literacy	10
Select one Analytical Science subject of the following (depending on testamur major selected):		10

CHEM 2001	Analytical Chemistry	
NATS 2019	Forensic and Environmental Analysis	
BIOS 2014	Functional Proteins and Genes	
NATS 2025	Natural Science Research Methods	
COMP 1005	Programming Fundamentals	
Select one testamur major subject (see sequence provided with each testamur major)	10	
	Credit Points	40
Spring session		
POLI 1007	World Politics and International Relations	10
Select one of the following:	10	
NATS 3045	Work Internship for Science Professionals	
NATS 3044	Complex Case Studies in Science	
Select two Science testamur major subjects (see sequence provided with each testamur major):	20	
	Credit Points	40
Year 3		
Autumn session		
Select one Language minor subject	10	
Select one Science capstone subject of the following (depending on testamur major chosen):	10	
NATS 3027	Laboratory Quality Management	
EART 3001	Biological Adaptation to Climate Change	
MATH 3006	Mathematical Modelling	
COMP 3002	Applications of Big Data	
NATS 3015	Field Project 1	
NATS 3038	Quality Assurance and Food Analysis	
Select two Science testamur major subjects (see sequence provided with each testamur major)	20	
	Credit Points	40
Spring session		
Select one Language minor subject	10	
Select three Science testamur major subjects (see sequence provided with each testamur major)	30	
	Credit Points	40
Year 4		
Autumn session		
POLI 2006	Politics of Australia and Asia Relations	10
Select two Level 2/3 International Relations and Asian Studies major subjects	20	
Select one Language minor subject	10	
	Credit Points	40
Spring session		
HUMN 3079	The Asian Century	10
Select two Level 2/3 International Relations and Asian Studies major subjects	20	
Select one Language minor subject	10	
	Credit Points	40
	Total Credit Points	320

Equivalent Subjects

The subject listed below count towards completion of this program who passed this subject in 2022 or earlier.

POLI 1002 Introduction to International Relations, replaced by
POLI 1007 World Politics and International Relations

Recommended Sequence

Course	Title	Credit Points
Year 1		
Autumn session		
Select BA core subject	10	
Select BA core subject	10	
BIOS 1001	Biodiversity	10
CHEM 1008	Introductory Chemistry	10
	Credit Points	40
Spring session		
Select BA core subject	10	
Select BA core subject	10	
Select one core Science Mathematics subject of the following (depending on testamur major selected):	10	
MATH 1003	Biometry	
MATH 1014	Mathematics 1A	
MATH 1026	Quantitative Thinking	
Select one core Science Foundation subject of the following (depending on testamur major selected):	10	
BIOS 1012	Cell Biology	
CHEM 1012	Essential Chemistry	
	Credit Points	40
Year 2		
Autumn session		
CULT 1001	Asia in the World	10
NATS 1019	Scientific Literacy	10
Select one Analytical Science subject of the following (depending on testamur major selected):	10	
MATH 2001	Advanced Calculus	
BIOS 2042	Biochemistry	
NATS 2019	Forensic and Environmental Analysis	
NATS 2042	Science Research Methods	
CHEM 2001	Analytical Chemistry	
PUBH 2010	Epidemiology	
Select one testamur major subject (see sequence provided with each testamur major)	10	
	Credit Points	40
Spring session		
POLI 1007	World Politics and International Relations	10
Select one of the following:	10	
NATS 3045	Work Internship for Science Professionals	
NATS 3044	Complex Case Studies in Science	
NATS 3008	Complex Forensic Studies	
Select two Science testamur major subjects (see sequence provided with each testamur major)	20	
	Credit Points	40
Year 3		
Autumn session		
Select one Language minor subject	10	
Select Science capstone subject:	10	
NATS 3055	Practicum 1	
Select two Science testamur major subjects (see sequence provided with each testamur major)	20	
	Credit Points	40

Spring session

Select one Language minor subject	10
Select three Science testamur major subjects (see sequence provided with each testamur major)	30
Credit Points	40

Year 4**Autumn session**

POLI 2006	Politics of Australia and Asia Relations	10
Select two Level 2/3 International Relations and Asian Studies major subjects		20
Select one Language minor subject		10
Credit Points	40	
Total Credit Points		320

Equivalent Subjects

The subject listed below count towards completion of this program who passed this subject in 2022 or earlier.

POLI 1002 Introduction to International Relations, replaced by POLI 1007 World Politics and International Relations