

MASTER OF INFORMATION AND COMMUNICATIONS TECHNOLOGY (3699)

Approved Abbreviation: MICT
Western Sydney University Program Code: 3699
AQF Level: 9

CRICOS Code: 063546M

This program applies to students who commenced in 2018 or later.

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

For Commencement Year Spring 2017, please refer to: 3699.3
Master of Information and Communications Technology (<http://handbook.westernsydney.edu.au/hbook/course.aspx?course=3699.3>)

For Commencement Year Autumn 2017, please refer to: 3699.2
Master of Information and Communications Technology (<http://handbook.westernsydney.edu.au/hbook/course.aspx?course=3699.2>)

The Master of Information and Communications Technology (MICT) sets the foundation for students to expand their knowledge and advance their careers in ICT as lifelong learners. The program uses enquiry-based learning strategies to engage students whilst they acquire knowledge in established theories and recent state-of-the-art developments.

The program is comprised of core and elective subjects in addition to a work experience component to ensure students develop skills in problem solving and research practice then apply those skills in a professional and ethical framework to their career pathways. Students also have an option to complete a field of study out of the available fields for this program.

Early Exits

Students may exit this program on completion of 80 credit points with a 3701 Graduate Certificate in Information and Communications Technology (<https://hbook.westernsydney.edu.au/archives/2024-2025/programs/graduate-certificate-information-communications-technology/>) or on completion of 120 credit points with a 3700 Graduate Diploma in Information and Communications Technology (<https://hbook.westernsydney.edu.au/archives/2024-2025/programs/graduate-diploma-information-communications-technology/>)

Study Mode

Two years full-time or one and a half years full time depending upon entry qualifications (see Pathways listed under Program Structure below) or the equivalent part-time.

Program Advice

Program Advice (CDMS@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 |
| Parramatta Campus - Victoria Road | Part Time | Internal | See above |
| Surabaya Campus Indonesia | Full Time | Internal | See above |
| Sydney City Campus* | Full Time | Internal | Mahsa Razavi (https://directory.westernsydney.edu.au/search/profile/17892/) |

* Programs delivered through an agreement with another party

Accreditation

The Master of Information and Communication Technology is accredited at Professional Level by the Australian Computer Society.

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 a mandatory work component required for completion of this program. Please contact the Program Advisor listed above for information.

International students should also refer to the link below for more information and a link to the Commonwealth Register of Institutions and Courses for Overseas Students (CRICOS).

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

Admission 2018 - 2022

Minimum admission requirements to this program are: An undergraduate degree or Masters degree in any discipline.

Additional Information

This program has three Pathways (A, B and C) that vary in length and structure based on previous study and work experience.

Pathway A - Applicants must have successfully completed an undergraduate degree in any discipline.

Pathway B - Applicants must have successfully completed an Honours or Master degree in any discipline.

Pathway C - Applicants must have successfully completed an Australian Computer Society accredited (or equivalent) undergraduate degree in Information and Communication Technologies, Computing or Information Systems

Or

An undergraduate degree in any discipline AND a Graduate Certificate or Graduate Diploma in ICT.

Applicants seeking admission on the basis of work experience must support their application with a Statement of Service for all work experience listed on the application.

Statement of Service form (https://www.westernsydney.edu.au/content/dam/digital/pdf/Statement_of_Service.PDF)

Admission 2023 - Spring 2025

Applicants must have successfully completed:

A undergraduate degree or higher in any discipline OR An undergraduate degree in any discipline AND a Graduate Certificate or Graduate Diploma in any discipline.

- Applicants who have successfully completed an Australian Computer Society accredited (or equivalent) Bachelor's degree in Information and Communication Technologies (ICT), Computing or Information Systems OR an Honours degree OR a Master degree in any discipline may be eligible for up to 40 credit points of Credit for Prior Learning subject to approval by the relevant Directors of Academic Programs (DAP).
- Applicants who have successfully completed an Australian (or equivalent) Graduate Certificate in ICT may be eligible for up to 40 credit points of Credit for Prior Learning subject to approval by the relevant Directors of Academic Programs (DAP).
- Applicants who have successfully completed an Australian (or equivalent) Graduate Diploma in ICT may be eligible for up to 80 credit points of Credit for Prior Learning subject to approval by the relevant Directors of Academic Programs (DAP).

Admission - Current

Applicants must have successfully completed an undergraduate degree or higher in any discipline.

Additional Information:

Applicants with a postgraduate qualification in information technology may be eligible to receive Credit for Prior Learning (CPL).

Additional Information

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.

<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 Current

This structure applies to students who commenced in 2024 or later. If you commenced prior to 2024 please refer to the relevant Structure tab for details.

Qualification for this award requires the successful completion of 160 credit points.

Students in this program at Surabaya Campus Indonesia should refer to the sequence tab for details of their program structure.

All other students must complete one of the Testamur majors as part of their program completion requirements.

Artificial Intelligence, Testamur Major (T002) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/artificial-intelligence-pg-testamur-major/>)

Cloud and Distributed Computing, Testamur Major (T121) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/cloud-distributed-computing-pg-testamur-major/>)

Cybersecurity, Testamur Major (T003) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/cybersecurity-pg-testamur-major/>)

Data Analytics, Testamur Major (T004) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/data-analytics-pg-testamur-major/>)

Digital Futures, Testamur Major (T005) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/digital-futures-pg-testamur-major/>)

Health Informatics, Testamur Major (T007) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/health-informatics-pg-testamur-major/>)

Information Governance, Testamur Major (T122) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/information-governance-pg-testamur-major/>)

Innovation and Entrepreneurship, Testamur Major (T008) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/innovation-entrepreneurship-pg-testamur-major/>)

Management, Testamur Major (T043) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/management-ug-pg-testamur-major/>)

Networking, Testamur Major (T009) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/networking-pg-testamur-major/>)

Space Science, Testamur Major (T030) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/space-science-testamur-major/>)

Web and Mobile Computing, Testamur Major (T010) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/web-mobile-computing-pg-testamur-major/>)

* Please note that T030 Space Science, Testamur Major is unavailable from Autumn 2026.

Alternate Subjects

Subjects in this list may be included in the program structure as Core Subjects and cannot be selected as one of the list subjects

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

| Subject | Title | Credit Points |
|-----------|--|---------------|
| COMP 7018 | Advanced Cloud Computing | 10 |
| PUBH 7001 | Advanced Health Classifications and Coding | 10 |
| INFS 7001 | Advanced Healthcare Data Environments | 10 |
| INFS 7002 | Advanced Healthcare Software and Systems | 10 |
| INFO 7001 | Advanced Machine Learning | 10 |
| INFO 7002 | Advanced Topics in Artificial Intelligence | 10 |
| INFO 7014 | Advanced Topics in Cybersecurity | 10 |
| INFS 7003 | Advanced Topics in ICT | 10 |
| COMP 7002 | Advanced Topics in Networking | 10 |
| COMP 7019 | Applied Machine Learning | 10 |
| COMP 7020 | Artificial Intelligence Ethics and Organisations | 10 |
| COMP 7003 | Big Data | 10 |
| COMP 7004 | Cloud Computing | 10 |
| INFO 7018 | Cloud Systems Development | 10 |
| INFS 7004 | Content Management Systems and Web Analytics | 10 |
| COMP 7006 | Data Science | 10 |
| COMP 7028 | Hands-on Quantum Computing | 10 |
| COMP 7007 | Information Security Management | 10 |
| COMP 7008 | Internet of Things | 10 |
| COMP 7021 | Knowledge Representation and Reasoning | 10 |
| COMP 7009 | Mobile Computing | 10 |
| COMP 7022 | Natural Language Processing | 10 |
| COMP 7012 | Network Management | 10 |
| COMP 7023 | Predictive Analytics | 10 |
| COMP 7024 | Programming for Data Science | 10 |
| MATH 7017 | Probabilistic Graphical Models | 10 |
| COMP 7025 | Social Media Intelligence | 10 |
| INFS 7006 | Software Testing and Automation | 10 |
| INFS 7008 | Systems and Network Security | 10 |
| MATH 7016 | The Nature of Data | 10 |
| COMP 7016 | Visualisation | 10 |
| INFO 7013 | Web Engineering | 10 |
| INFS 7009 | Web Technologies | 10 |
| COMP 7017 | Wireless Networking | 10 |
| INFO 6003 | Postgraduate Research Project | 10 |
| INFO 5001 | Workflow Management for Business Solutions | 10 |

Retired Subjects

The subjects listed below count towards completion of this program for students who passed the subjects in Autumn 2024 or earlier.

COMP 7011 Multimedia Communication Systems

Multi-disciplinary Subjects

A maximum of four subjects are allowed from this list.

| Subject | Title | Credit Points |
|-----------|---|---------------|
| BUSM 7018 | Contemporary People Management | 10 |
| HUMN 7012 | Cyber Justice (PG) | 10 |
| ECON 7001 | Economics | 10 |
| BUSM 7028 | Entrepreneurial Management Capabilities | 10 |
| ACCT 7015 | Information for Decision Making | 10 |
| COMM 7003 | Foundations of Media Arts Production (PG) | 10 |

| | | |
|-----------|--|----|
| CULT 7004 | Global Digital Futures | 10 |
| BUSM 7040 | Governance, Ethics and Social Entrepreneurship | 10 |
| COMM 7013 | Ideate, Develop: Makerspace 1 | 10 |
| LAWS 7015 | Information and Data Governance Law and Policy | 10 |
| BUSM 7048 | Innovation, Creativity and Foresight | 10 |
| BUSM 7046 | Innovation for New Markets | 10 |
| BUSM 7045 | Innovation Through Digital Technology | 10 |
| MKTG 7019 | Marketing Systems | 10 |
| COMM 7009 | Mobile Media | 10 |
| BUSM 7072 | New Venture Finance | 10 |
| COMM 7011 | Researching Convergent Media | 10 |
| BUSM 7084 | Start-up | 10 |
| BUSM 7086 | Strategic Business Management | 10 |
| BUSM 7099 | Understanding Contemporary Organisations | 10 |
| HUMN 4001 | Researcher Development 1: Reading, Writing, and the Business of Research | 10 |
| HUMN 4002 | Researcher Development 2: Proposing and Justifying Research | 10 |

Equivalent Subjects

The subject listed below count towards completion of this program for students who passed these subjects in 2023 or earlier.

INFO 7017 Postgraduate Project B, replaced by INFO 6003 (<https://hbook.westernsydney.edu.au/archives/2024-2025/search/?P=INFO%206003>) Postgraduate Research Project

Sequence Current

This sequence applies to students who commenced in 2024 or later. If you commenced prior to 2024 please refer to the relevant Sequence tab for details.

Qualification for this award requires the successful completion of 160 credit points as per the recommended sequence below.

Students must complete one of the Testamur majors as part of their program completion requirements.

Surabaya students please see the separate section below.

Full-time Start-year Intake

| Course | Title | Credit Points |
|---|--|---------------|
| Year 1 | | |
| Autumn session | | |
| COMP 7015 | Programming Proficiency | 10 |
| INFS 7007 | Systems Analysis and Database Management Systems | 10 |
| COMP 7013 | Network Technologies | 10 |
| ENGR 7017 | Professional Practice and Communication | 10 |
| Credit Points | | 40 |
| Spring session | | |
| INFO 7015 | Applied Cybersecurity | 10 |
| INFO 6001 | IT Project Management | 10 |
| Select two subjects from your Major, Alternate or Multi-disciplinary subject pools. | | 20 |
| Credit Points | | 40 |

Year 2

Autumn session

| | | |
|-----------|---|----|
| NATS 7057 | Research Preparation in Post Graduate Studies | 10 |
|-----------|---|----|

| | | |
|---|--|------------|
| INFO 7003 | Advanced Topics in User System Interaction | 10 |
| INFO 6002 | Postgraduate Capstone Project | 10 |
| Select one subject from your Major, Alternate or Multi-disciplinary subject pools. | | 10 |
| Credit Points | | 40 |
| Spring session | | |
| Select four subjects from your Major, Alternate or Multi-disciplinary subject pools | | 40 |
| Credit Points | | 40 |
| Total Credit Points | | 160 |

Due to professional accreditation requirements, students in the following majors only, must use one of their elective spaces to complete the advanced subject INFS 7003 Advanced Topics in ICT:

T005 Digital Futures (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/digital-futures-pg-testamur-major/#structuretext>)

T008 Innovation and Entrepreneurship (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/innovation-entrepreneurship-pg-testamur-major/>)

T043 Management (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/management-ug-pg-testamur-major/>)

T009 Networking (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/networking-pg-testamur-major/>)

T030 Space Science (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/space-science-testamur-major/>)

* Please note that T030 Space Science, Testamur Major is unavailable from Autumn 2026.

Full-time Mid-year Intake

| Course | Title | Credit Points |
|---|--|---------------|
| Year 1 | | |
| Spring session | | |
| COMP 7015 | Programming Proficiency | 10 |
| INFS 7007 | Systems Analysis and Database Management Systems | 10 |
| COMP 7013 | Network Technologies | 10 |
| ENGR 7017 | Professional Practice and Communication | 10 |
| Credit Points | | 40 |
| Autumn session | | |
| INFO 7003 | Advanced Topics in User System Interaction | 10 |
| NATS 7057 | Research Preparation in Post Graduate Studies | 10 |
| Select two subjects from your Major, Alternate or Multi-disciplinary subject pools. | | 20 |
| Credit Points | | 40 |
| Year 2 | | |
| Spring session | | |
| INFO 7015 | Applied Cybersecurity | 10 |
| INFO 6001 | IT Project Management | 10 |
| INFO 6002 | Postgraduate Capstone Project | 10 |

Select one subject from your Major, Alternate or Multi-disciplinary subject pools.

Credit Points 40

Autumn session

Select four subjects from your Major, Alternate or Multi-disciplinary subject pools.

Credit Points 40

Total Credit Points 160

Due to professional accreditation requirements, students in the following majors only, must use one of their elective spaces to complete the advanced subject INFS 7003 Advanced Topics in ICT:

T005 Digital Futures (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/digital-futures-pg-testamur-major/#structuretext>)

T008 Innovation and Entrepreneurship (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/innovation-entrepreneurship-pg-testamur-major/>)

T043 Management (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/management-ug-pg-testamur-major/>)

T009 Networking (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/networking-pg-testamur-major/>)

T030 Space Science (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/space-science-testamur-major/>)

* Please note that T030 Space Science, Testamur Major is unavailable from Autumn 2026.

Additional Completion Requirements

Students must complete at least 120 hours full-time or part-time equivalent industry placement as a Work Integrated Learning (WIL) component and must enrol in the INFO 7004 ICT Practicum (<https://hbook.westernsydney.edu.au/archives/2024-2025/subject-details/info7004/>) subject to receive recognition for WIL.

Note: subject INFO7004 does not give you any credit points and it is there to allow you to complete the WIL component. It is offered in both Autumn and Spring semester. You are advised to register in this subject in the second last semester during your study. You may also register in your last semester, but your study may have to be extended should you fail this subject.

Majors

Students must also complete one of the listed Majors below.

Artificial Intelligence, Testamur Major (T002) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/artificial-intelligence-pg-testamur-major/>)

Cloud and Distributed Computing, Testamur Major (T121) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/cloud-distributed-computing-pg-testamur-major/>)

Cybersecurity, Testamur Major (T003) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/cybersecurity-pg-testamur-major/>)

Data Analytics, Testamur Major (T004) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/data-analytics-pg-testamur-major/>)

Digital Futures, Testamur Major (T005) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/digital-futures-pg-testamur-major/>)

Health Informatics, Testamur Major (T007) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/health-informatics-pg-testamur-major/>)

Information Governance, Testamur Major (T122) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/information-governance-pg-testamur-major/>)

Innovation and Entrepreneurship, Testamur Major (T008) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/innovation-entrepreneurship-pg-testamur-major/>)

Management, Testamur Major (T043) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/management-ug-pg-testamur-major/>)

Networking, Testamur Major (T009) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/networking-pg-testamur-major/>)

Space Science, Testamur Major (T030) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/space-science-testamur-major/>)

Web and Mobile Computing, Testamur Major (T010) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/web-mobile-computing-pg-testamur-major/>)

* Please note that T030 Space Science, Testamur Major is unavailable from Autumn 2026.

Alternate Subjects

Subjects in this list may be included in the program structure as Core Subjects and cannot be selected as one of the list subjects

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

| Subject | Title | Credit Points |
|-----------|--|---------------|
| COMP 7018 | Advanced Cloud Computing | 10 |
| PUBH 7001 | Advanced Health Classifications and Coding | 10 |
| INFS 7001 | Advanced Healthcare Data Environments | 10 |
| INFS 7002 | Advanced Healthcare Software and Systems | 10 |
| INFO 7001 | Advanced Machine Learning | 10 |
| INFO 7002 | Advanced Topics in Artificial Intelligence | 10 |
| INFO 7014 | Advanced Topics in Cybersecurity | 10 |
| INFS 7003 | Advanced Topics in ICT | 10 |
| COMP 7002 | Advanced Topics in Networking | 10 |
| COMP 7019 | Applied Machine Learning | 10 |
| COMP 7020 | Artificial Intelligence Ethics and Organisations | 10 |
| COMP 7003 | Big Data | 10 |
| COMP 7004 | Cloud Computing | 10 |
| INFO 7018 | Cloud Systems Development | 10 |
| INFS 7004 | Content Management Systems and Web Analytics | 10 |
| COMP 7006 | Data Science | 10 |
| COMP 7028 | Hands-on Quantum Computing | 10 |
| COMP 7007 | Information Security Management | 10 |
| COMP 7008 | Internet of Things | 10 |
| COMP 7021 | Knowledge Representation and Reasoning | 10 |
| COMP 7009 | Mobile Computing | 10 |
| COMP 7022 | Natural Language Processing | 10 |
| COMP 7012 | Network Management | 10 |
| COMP 7023 | Predictive Analytics | 10 |
| COMP 7024 | Programming for Data Science | 10 |
| MATH 7017 | Probabilistic Graphical Models | 10 |
| COMP 7025 | Social Media Intelligence | 10 |

| | | |
|-----------|--|----|
| INFS 7006 | Software Testing and Automation | 10 |
| INFS 7008 | Systems and Network Security | 10 |
| MATH 7016 | The Nature of Data | 10 |
| COMP 7016 | Visualisation | 10 |
| INFO 7013 | Web Engineering | 10 |
| INFS 7009 | Web Technologies | 10 |
| COMP 7017 | Wireless Networking | 10 |
| INFO 6003 | Postgraduate Research Project | 10 |
| INFO 5001 | Workflow Management for Business Solutions | 10 |

Retired Subjects

The subjects listed below count towards completion of this program for students who passed the subjects in Autumn 2024 or earlier.

COMP 7011 Multimedia Communication Systems

Multi-disciplinary Subjects

A maximum of four subjects are allowed from this list.

| Subject | Title | Credit Points |
|-----------|--|---------------|
| BUSM 7018 | Contemporary People Management | 10 |
| HUMN 7012 | Cyber Justice (PG) | 10 |
| ECON 7001 | Economics | 10 |
| BUSM 7028 | Entrepreneurial Management Capabilities | 10 |
| ACCT 7015 | Information for Decision Making | 10 |
| COMM 7003 | Foundations of Media Arts Production (PG) | 10 |
| CULT 7004 | Global Digital Futures | 10 |
| BUSM 7040 | Governance, Ethics and Social Entrepreneurship | 10 |
| COMM 7013 | Ideate, Develop: Makerspace 1 | 10 |
| LAWS 7015 | Information and Data Governance Law and Policy | 10 |
| BUSM 7048 | Innovation, Creativity and Foresight | 10 |
| BUSM 7046 | Innovation for New Markets | 10 |
| BUSM 7045 | Innovation Through Digital Technology | 10 |
| MKTG 7019 | Marketing Systems | 10 |
| COMM 7009 | Mobile Media | 10 |
| BUSM 7072 | New Venture Finance | 10 |
| COMM 7011 | Researching Convergent Media | 10 |
| BUSM 7084 | Start-up | 20 |
| BUSM 7086 | Strategic Business Management | 10 |
| BUSM 7099 | Understanding Contemporary Organisations | 10 |
| HUMN 4001 | Researcher Development 1: Reading, Writing, and the Business of Research | 10 |
| HUMN 4002 | Researcher Development 2: Proposing and Justifying Research | 10 |

Surabaya Campus Indonesia

This program sequence for Surabaya students ONLY and will apply from September 2025.

| Course | Title | Credit Points |
|-------------------|--|---------------|
| Year 1 | | |
| Semester 1 | | |
| COMP 7015 | Programming Proficiency | 10 |
| INFS 7007 | Systems Analysis and Database Management Systems | 10 |
| COMP 7013 | Network Technologies | 10 |
| ENGR 7017 | Professional Practice and Communication | 10 |
| Semester 2 | | |

| | | |
|----------------------|---|-----------|
| INFO 7003 | Advanced Topics in User System Interaction | 10 |
| NATS 7057 | Research Preparation in Post Graduate Studies | 10 |
| COMP 7024 | Programming for Data Science | 10 |
| MATH 7016 | The Nature of Data | 10 |
| Credit Points | | 80 |

Year 2**Semester 3**

| | | |
|-----------|-------------------------------|----|
| INFO 7015 | Applied Cybersecurity | 10 |
| INFO 6001 | IT Project Management | 10 |
| INFO 6002 | Postgraduate Capstone Project | 10 |
| COMP 7006 | Data Science | 10 |

Semester 4

| | | |
|-----------|---------------------------|----|
| COMP 7018 | Advanced Cloud Computing | 10 |
| COMP 7016 | Visualisation | 10 |
| COMP 7023 | Predictive Analytics | 10 |
| COMP 7025 | Social Media Intelligence | 10 |

| | |
|----------------------|-----------|
| Credit Points | 80 |
|----------------------|-----------|

| | |
|----------------------------|------------|
| Total Credit Points | 160 |
|----------------------------|------------|

Program Structure 2023

Qualification for this award requires the successful completion of 160 credit points.

Students must complete one of the Testamur majors as part of their program completion requirements.

Artificial Intelligence, Testamur Major (T002) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/artificial-intelligence-pg-testamur-major/>)

Cloud and Distributed Computing, Testamur Major (T121) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/cloud-distributed-computing-pg-testamur-major/>)

Cybersecurity, Testamur Major (T003) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/cybersecurity-pg-testamur-major/>)

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Networking, Testamur Major (T009) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/networking-pg-testamur-major/>)

Space Science, Testamur Major (T030) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/space-science-testamur-major/>)

Web and Mobile Computing, Testamur Major (T010) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/web-mobile-computing-pg-testamur-major/>)

Alternate Subjects

Subjects in this list may be included in the program structure as Core Subjects and cannot be selected as one of the list subjects

| Subject | Title | Credit Points |
|-----------|--|---------------|
| COMP 7018 | Advanced Cloud Computing | 10 |
| PUBH 7001 | Advanced Health Classifications and Coding | 10 |
| INFS 7001 | Advanced Healthcare Data Environments | 10 |
| INFS 7002 | Advanced Healthcare Software and Systems | 10 |
| INFO 7001 | Advanced Machine Learning | 10 |
| INFO 7002 | Advanced Topics in Artificial Intelligence | 10 |
| INFO 7014 | Advanced Topics in Cybersecurity | 10 |
| INFS 7003 | Advanced Topics in ICT | 10 |
| COMP 7002 | Advanced Topics in Networking | 10 |
| COMP 7019 | Applied Machine Learning | 10 |
| COMP 7020 | Artificial Intelligence Ethics and Organisations | 10 |
| COMP 7003 | Big Data | 10 |
| COMP 7004 | Cloud Computing | 10 |
| INFO 7018 | Cloud Systems Development | 10 |
| INFS 7004 | Content Management Systems and Web Analytics | 10 |
| COMP 7006 | Data Science | 10 |
| COMP 7028 | Hands-on Quantum Computing | 10 |
| COMP 7007 | Information Security Management | 10 |
| COMP 7008 | Internet of Things | 10 |
| COMP 7021 | Knowledge Representation and Reasoning | 10 |
| COMP 7009 | Mobile Computing | 10 |
| COMP 7011 | Multimedia Communication Systems | 10 |
| COMP 7022 | Natural Language Processing | 10 |
| COMP 7012 | Network Management | 10 |
| COMP 7023 | Predictive Analytics | 10 |
| COMP 7024 | Programming for Data Science | 10 |
| MATH 7017 | Probabilistic Graphical Models | 10 |
| COMP 7025 | Social Media Intelligence | 10 |
| INFS 7006 | Software Testing and Automation | 10 |
| INFS 7008 | Systems and Network Security | 10 |
| MATH 7016 | The Nature of Data | 10 |
| COMP 7016 | Visualisation | 10 |
| INFO 7013 | Web Engineering | 10 |
| INFS 7009 | Web Technologies | 10 |
| COMP 7017 | Wireless Networking | 10 |
| INFO 7017 | Postgraduate Project B | 10 |

Multi-disciplinary Subjects

A maximum of four subjects are allowed from this list.

| Subject | Title | Credit Points |
|-----------|---|---------------|
| BUSM 7018 | Contemporary People Management | 10 |
| HUMN 7012 | Cyber Justice (PG) | 10 |
| ECON 7001 | Economics | 10 |
| BUSM 7028 | Entrepreneurial Management Capabilities | 10 |
| ACCT 7015 | Information for Decision Making | 10 |

| | | |
|-----------|--|----|
| COMM 7003 | Foundations of Media Arts Production (PG) | 10 |
| CULT 7004 | Global Digital Futures | 10 |
| BUSM 7040 | Governance, Ethics and Social Entrepreneurship | 10 |
| COMM 7013 | Ideate, Develop: Makerspace 1 | 10 |
| LAWS 7015 | Information and Data Governance Law and Policy | 10 |
| BUSM 7048 | Innovation, Creativity and Foresight | 10 |
| BUSM 7046 | Innovation for New Markets | 10 |
| BUSM 7045 | Innovation Through Digital Technology | 10 |
| MKTG 7019 | Marketing Systems | 10 |
| COMM 7009 | Mobile Media | 10 |
| BUSM 7072 | New Venture Finance | 10 |
| COMM 7011 | Researching Convergent Media | 10 |
| BUSM 7084 | Start-up | 10 |
| BUSM 7086 | Strategic Business Management | 10 |
| BUSM 7099 | Understanding Contemporary Organisations | 10 |

Sequence 2023

Qualification for this award requires the successful completion of 160 credit points.

Full-time Start year Intake

| Course | Title | Credit Points |
|---|--|---------------|
| Year 1 | | |
| Autumn session | | |
| COMP 7015 | Programming Proficiency | 10 |
| INFS 7007 | Systems Analysis and Database Management Systems | 10 |
| COMP 7013 | Network Technologies | 10 |
| ENGR 7017 | Professional Practice and Communication | 10 |
| Credit Points | | 40 |
| Spring session | | |
| INFO 7015 | Applied Cybersecurity | 10 |
| INFO 6001 | IT Project Management | 10 |
| Select two subjects from your Major, Alternate or Multi-disciplinary subject pools. | | 20 |
| Credit Points | | 40 |
| Year 2 | | |
| Autumn session | | |
| NATS 7057 | Research Preparation in Post Graduate Studies | 10 |
| INFO 7003 | Advanced Topics in User System Interaction | 10 |
| INFO 7016 | Postgraduate Project A | 10 |
| Select one subject from your Major, Alternate or Multi-disciplinary subject pools. | | 10 |
| Credit Points | | 40 |
| Spring session | | |
| Select four subjects from your Major, Alternate or Multi-disciplinary subject pools | | 40 |
| Credit Points | | 40 |
| Total Credit Points | | 160 |

Full-time Mid-year Intake

| Course | Title | Credit Points |
|--|--|---------------|
| Year 1 | | |
| Spring session | | |
| COMP 7015 | Programming Proficiency | 10 |
| INFS 7007 | Systems Analysis and Database Management Systems | 10 |
| COMP 7013 | Network Technologies | 10 |
| ENGR 7017 | Professional Practice and Communication | 10 |
| Credit Points | | 40 |
| Autumn session | | |
| INFO 7003 | Advanced Topics in User System Interaction | 10 |
| NATS 7057 | Research Preparation in Post Graduate Studies | 10 |
| Select two subjects from your Major, Alternate or Multi-disciplinary subject pools. | | 20 |
| Credit Points | | 40 |
| Year 2 | | |
| Spring session | | |
| INFO 7015 | Applied Cybersecurity | 10 |
| INFO 6001 | IT Project Management | 10 |
| INFO 7016 | Postgraduate Project A | 10 |
| Select one subject from your Major, Alternate or Multi-disciplinary subject pools. | | 10 |
| Credit Points | | 40 |
| Autumn session | | |
| Select four subjects from your Major, Alternate or Multi-disciplinary subject pools. | | 40 |
| Credit Points | | 40 |
| Total Credit Points | | 160 |

Additional Completion Requirements

Students must complete at least 120 hours full-time or part-time equivalent industry placement as a Work Integrated Learning (WIL) component and must enrol in the INFO 7004 ICT Practicum (<https://hbook.westernsydney.edu.au/archives/2024-2025/subject-details/info7004/>) subject to receive recognition for WIL.

Note: subject INFO7004 does not give you any credit points and it is there to allow you to complete the WIL component. It is offered in both Autumn and Spring semester. You are advised to register in this subject in the second last semester during your study. You may also register in your last semester, but your study may have to be extended should you fail this subject.

Majors

Students must also complete one of the listed Majors below.

Artificial Intelligence, Testamur Major (T002) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/artificial-intelligence-pg-testamur-major/>)

Cloud and Distributed Computing, Testamur Major (T121) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/cloud-distributed-computing-pg-testamur-major/>)

Cybersecurity, Testamur Major (T003) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/cybersecurity-pg-testamur-major/>)

Data Analytics, Testamur Major (T004) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/data-analytics-pg-testamur-major/>)

Digital Futures, Testamur Major (T005) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/digital-futures-pg-testamur-major/>)

Health Informatics, Testamur Major (T007) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/health-informatics-pg-testamur-major/>)

Information Governance, Testamur Major (T122) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/information-governance-pg-testamur-major/>)

Innovation and Entrepreneurship, Testamur Major (T008) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/innovation-entrepreneurship-pg-testamur-major/>)

Management, Testamur Major (T043) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/management-ug-pg-testamur-major/>)

Networking, Testamur Major (T009) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/networking-pg-testamur-major/>)

Space Science, Testamur Major (T030) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/space-science-testamur-major/>)

Web and Mobile Computing, Testamur Major (T010) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/web-mobile-computing-pg-testamur-major/>)

Alternate Subjects

Subjects in this list may be included in the program structure as Core Subjects and cannot be selected as one of the list subjects

| Subject | Title | Credit Points |
|-----------|--|---------------|
| COMP 7018 | Advanced Cloud Computing | 10 |
| PUBH 7001 | Advanced Health Classifications and Coding | 10 |
| INFS 7001 | Advanced Healthcare Data Environments | 10 |
| INFS 7002 | Advanced Healthcare Software and Systems | 10 |
| INFO 7001 | Advanced Machine Learning | 10 |
| INFO 7002 | Advanced Topics in Artificial Intelligence | 10 |
| INFO 7014 | Advanced Topics in Cybersecurity | 10 |
| INFS 7003 | Advanced Topics in ICT | 10 |
| COMP 7002 | Advanced Topics in Networking | 10 |
| COMP 7019 | Applied Machine Learning | 10 |
| COMP 7020 | Artificial Intelligence Ethics and Organisations | 10 |
| COMP 7003 | Big Data | 10 |
| COMP 7004 | Cloud Computing | 10 |
| INFO 7018 | Cloud Systems Development | 10 |
| INFS 7004 | Content Management Systems and Web Analytics | 10 |
| COMP 7006 | Data Science | 10 |
| COMP 7028 | Hands-on Quantum Computing | 10 |
| COMP 7007 | Information Security Management | 10 |
| COMP 7008 | Internet of Things | 10 |
| COMP 7021 | Knowledge Representation and Reasoning | 10 |
| COMP 7009 | Mobile Computing | 10 |
| COMP 7011 | Multimedia Communication Systems | 10 |
| COMP 7022 | Natural Language Processing | 10 |
| COMP 7012 | Network Management | 10 |
| COMP 7023 | Predictive Analytics | 10 |

| | | |
|-----------|--|----|
| COMP 7024 | Programming for Data Science | 10 |
| MATH 7017 | Probabilistic Graphical Models | 10 |
| COMP 7025 | Social Media Intelligence | 10 |
| INFS 7006 | Software Testing and Automation | 10 |
| INFS 7008 | Systems and Network Security | 10 |
| MATH 7016 | The Nature of Data | 10 |
| COMP 7016 | Visualisation | 10 |
| INFO 7013 | Web Engineering | 10 |
| INFS 7009 | Web Technologies | 10 |
| COMP 7017 | Wireless Networking | 10 |
| INFO 7017 | Postgraduate Project B | 10 |
| INFO 5001 | Workflow Management for Business Solutions | 10 |

Multi-disciplinary Subjects

A maximum of four subjects are allowed from this list.

| Subject | Title | Credit Points |
|-----------|--|---------------|
| BUSM 7018 | Contemporary People Management | 10 |
| HUMN 7012 | Cyber Justice (PG) | 10 |
| ECON 7001 | Economics | 10 |
| BUSM 7028 | Entrepreneurial Management Capabilities | 10 |
| ACCT 7015 | Information for Decision Making | 10 |
| COMM 7003 | Foundations of Media Arts Production (PG) | 10 |
| CULT 7004 | Global Digital Futures | 10 |
| BUSM 7040 | Governance, Ethics and Social Entrepreneurship | 10 |
| COMM 7013 | Ideate, Develop: Makerspace 1 | 10 |
| LAWS 7015 | Information and Data Governance Law and Policy | 10 |
| BUSM 7048 | Innovation, Creativity and Foresight | 10 |
| BUSM 7046 | Innovation for New Markets | 10 |
| BUSM 7045 | Innovation Through Digital Technology | 10 |
| MKTG 7019 | Marketing Systems | 10 |
| COMM 7009 | Mobile Media | 10 |
| BUSM 7072 | New Venture Finance | 10 |
| COMM 7011 | Researching Convergent Media | 10 |
| BUSM 7084 | Start-up | 20 |
| BUSM 7086 | Strategic Business Management | 10 |
| BUSM 7099 | Understanding Contemporary Organisations | 10 |

Program Structure 2018 - 2022

Sydney City Campus

Click here for the recommended sequence at Sydney City Campus. (https://www.westernsydney.edu.au/city/courses/postgraduate/master_of_information_and_communications_technology/)

Parramatta Campus

The program length and structure varies based on the student's previous study background and level, and work experience.

Students are categorised into three Pathways based on their previous study background and work experience as indicated below and program structure and length is set accordingly. See individual links for detailed program structure.

Pathway A Core subjects

| Subject | Title | Credit Points |
|-----------|------------------------|---------------|
| INFO 7005 | IT Project Management | 10 |
| INFO 7016 | Postgraduate Project A | 10 |

| | | |
|-----------|--|----|
| COMP 7013 | Network Technologies | 10 |
| ENGR 7017 | Professional Practice and Communication | 10 |
| NATS 7057 | Research Preparation in Post Graduate Studies | 10 |
| INFO 7003 | Advanced Topics in User System Interaction | 10 |
| COMP 7015 | Programming Proficiency | 10 |
| INFS 7007 | Systems Analysis and Database Management Systems | 10 |

Pathway A - students complete one of the listed Majors below.

And select four subjects from Foundation, Specialised or Multi-disciplinary subject lists in addition to those completed for a Major.

Additional Completion Requirements

Students must complete a four week full-time or part-time equivalent industry placement as a Work Integrated Learning (WIL) component and must enrol in the ICT Practicum subject to receive recognition for WIL.

| Subject | Title | Credit Points |
|-----------|---------------|---------------|
| INFO 7004 | ICT Practicum | 0 |

Students must also complete one of the listed Majors below.

Artificial Intelligence, Testamur Major (T002) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/artificial-intelligence-pg-testamur-major/>)

Cloud and Distributed Computing, Testamur Major (T121) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/cloud-distributed-computing-pg-testamur-major/>)

Cybersecurity, Testamur Major (T003) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/cybersecurity-pg-testamur-major/>)

Data Analytics, Testamur Major (T004) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/data-analytics-pg-testamur-major/>)

Digital Futures, Testamur Major (T005) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/digital-futures-pg-testamur-major/>)

Health Informatics, Testamur Major (T007) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/health-informatics-pg-testamur-major/>)

Information Governance, Testamur Major (T122) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/information-governance-pg-testamur-major/>)

Innovation and Entrepreneurship, Testamur Major (T008) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/innovation-entrepreneurship-pg-testamur-major/>)

Management, Testamur Major (T043) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/management-ug-pg-testamur-major/>)

Networking, Testamur Major (T009) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/networking-pg-testamur-major/>)

Web and Mobile Computing, Testamur Major (T010) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/web-mobile-computing-pg-testamur-major/>)

Pathway B Core subjects

| Subject | Title | Credit Points |
|-----------|--|---------------|
| INFO 7005 | IT Project Management | 10 |
| INFO 7016 | Postgraduate Project A | 10 |
| COMP 7013 | Network Technologies | 10 |
| ENGR 7017 | Professional Practice and Communication | 10 |
| NATS 7057 | Research Preparation in Post Graduate Studies | 10 |
| INFO 7003 | Advanced Topics in User System Interaction | 10 |
| COMP 7015 | Programming Proficiency | 10 |
| INFS 7007 | Systems Analysis and Database Management Systems | 10 |

Pathway B - students complete one of the listed Majors below.

Subjects for the Majors are included in the Foundation, Specialised or Multi-disciplinary subject lists.

Additional Completion Requirements

Students must complete a four week full-time or part-time equivalent industry placement as a Work Integrated Learning (WIL) component and must enrol in the ICT Practicum subject to receive recognition for WIL.

| Subject | Title | Credit Points |
|-----------|---------------|---------------|
| INFO 7004 | ICT Practicum | 0 |

Students must also complete one of the listed Majors below.

Artificial Intelligence, Testamur Major (T002) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/artificial-intelligence-pg-testamur-major/>)

Cloud and Distributed Computing, Testamur Major (T121) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/cloud-distributed-computing-pg-testamur-major/>)

Cybersecurity, Testamur Major (T003) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/cybersecurity-pg-testamur-major/>)

Data Analytics, Testamur Major (T004) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/data-analytics-pg-testamur-major/>)

Digital Futures, Testamur Major (T005) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/digital-futures-pg-testamur-major/>)

Health Informatics, Testamur Major (T007) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/health-informatics-pg-testamur-major/>)

Information Governance, Testamur Major (T122) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/information-governance-pg-testamur-major/>)

Innovation and Entrepreneurship, Testamur Major (T008) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/innovation-entrepreneurship-pg-testamur-major/>)

Management, Testamur Major (T043) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/management-ug-pg-testamur-major/>)

Networking, Testamur Major (T009) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/networking-pg-testamur-major/>)

Web and Mobile Computing, Testamur Major (T010) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/web-mobile-computing-pg-testamur-major/>)

Pathway C Core subjects

| Subject | Title | Credit Points |
|-----------|---|---------------|
| INFO 7005 | IT Project Management | 10 |
| INFO 7016 | Postgraduate Project A | 10 |
| COMP 7013 | Network Technologies | 10 |
| ENGR 7017 | Professional Practice and Communication | 10 |
| NATS 7057 | Research Preparation in Post Graduate Studies | 10 |

Pathway C - students complete one of the listed Majors below.

And one subject from Foundation or Specialised subject lists in addition to those completed for a Major.

And two subjects from Foundation, Specialised or Multi-disciplinary subject lists in addition to those completed for a Major.

Additional Completion Requirements

Students must complete a four week full-time or part-time equivalent industry placement as a Work Integrated Learning (WIL) component and must enrol in the ICT Practicum subject to receive recognition for WIL.

| Subject | Title | Credit Points |
|-----------|---------------|---------------|
| INFO 7004 | ICT Practicum | 0 |

Students must also complete one of the listed Majors below.

Artificial Intelligence, Testamur Major (T002) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/artificial-intelligence-pg-testamur-major/>)

Cloud and Distributed Computing, Testamur Major (T121) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/cloud-distributed-computing-pg-testamur-major/>)

Cybersecurity, Testamur Major (T003) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/cybersecurity-pg-testamur-major/>)

Data Analytics, Testamur Major (T004) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/data-analytics-pg-testamur-major/>)

Digital Futures, Testamur Major (T005) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/digital-futures-pg-testamur-major/>)

Health Informatics, Testamur Major (T007) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/health-informatics-pg-testamur-major/>)

Information Governance, Testamur Major (T122) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/information-governance-pg-testamur-major/>)

Innovation and Entrepreneurship, Testamur Major (T008) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/innovation-entrepreneurship-pg-testamur-major/>)

Management, Testamur Major (T043) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/management-ug-pg-testamur-major/>)

Networking, Testamur Major (T009) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/networking-pg-testamur-major/>)

Web and Mobile Computing, Testamur Major (T010) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/web-mobile-computing-pg-testamur-major/>)

Foundation subjects

Note: Subjects in this list may be included in the program structure as Core Subjects and cannot be selected as one of the list subjects.

| Subject | Title | Credit Points |
|-----------|--|---------------|
| INFO 7003 | Advanced Topics in User System Interaction | 10 |
| INFS 7004 | Content Management Systems and Web Analytics | 10 |
| INFO 7005 | IT Project Management | 10 |
| COMP 7013 | Network Technologies | 10 |
| ENGR 7017 | Professional Practice and Communication | 10 |
| COMP 7015 | Programming Proficiency | 10 |
| INFS 7008 | Systems and Network Security | 10 |
| NATS 7057 | Research Preparation in Post Graduate Studies | 10 |
| INFS 7007 | Systems Analysis and Database Management Systems | 10 |
| INFS 7009 | Web Technologies | 10 |

Specialised Subjects

Note: Subjects in this list may be included in the program structure as Core Subjects and cannot be selected as one of the list subjects .

| Subject | Title | Credit Points |
|-----------|--|---------------|
| COMP 7018 | Advanced Cloud Computing | 10 |
| PUBH 7001 | Advanced Health Classifications and Coding | 10 |
| INFS 7001 | Advanced Healthcare Data Environments | 10 |
| INFS 7002 | Advanced Healthcare Software and Systems | 10 |
| INFO 7001 | Advanced Machine Learning | 10 |
| INFO 7002 | Advanced Topics in Artificial Intelligence | 10 |
| INFO 7014 | Advanced Topics in Cybersecurity | 10 |
| INFS 7003 | Advanced Topics in ICT | 10 |
| COMP 7002 | Advanced Topics in Networking | 10 |
| INFO 7015 | Applied Cybersecurity | 10 |
| COMP 7019 | Applied Machine Learning | 10 |
| COMP 7020 | Artificial Intelligence Ethics and Organisations | 10 |
| COMP 7003 | Big Data | 10 |
| COMP 7004 | Cloud Computing | 10 |
| INFO 7018 | Cloud Systems Development | 10 |
| COMP 7006 | Data Science | 10 |
| COMP 7028 | Hands-on Quantum Computing | 10 |
| COMP 7007 | Information Security Management | 10 |
| COMP 7008 | Internet of Things | 10 |
| COMP 7021 | Knowledge Representation and Reasoning | 10 |
| COMP 7009 | Mobile Computing | 10 |
| COMP 7011 | Multimedia Communication Systems | 10 |
| COMP 7022 | Natural Language Processing | 10 |
| COMP 7012 | Network Management | 10 |
| COMP 7023 | Predictive Analytics | 10 |
| COMP 7024 | Programming for Data Science | 10 |
| MATH 7017 | Probabilistic Graphical Models | 10 |
| COMP 7025 | Social Media Intelligence | 10 |
| INFS 7006 | Software Testing and Automation | 10 |
| MATH 1028 | Statistical Decision Making | 10 |

| | | |
|-----------|---------------------|----|
| MATH 7016 | The Nature of Data | 10 |
| COMP 7016 | Visualisation | 10 |
| INFO 7013 | Web Engineering | 10 |
| COMP 7017 | Wireless Networking | 10 |

Multi-disciplinary subjects

A maximum of four subjects are allowed from this list.

| Subject | Title | Credit Points |
|-----------|--|---------------|
| BUSM 7018 | Contemporary People Management | 10 |
| HUMN 7012 | Cyber Justice (PG) | 10 |
| ECON 7001 | Economics | 10 |
| BUSM 7028 | Entrepreneurial Management Capabilities | 10 |
| ACCT 7015 | Information for Decision Making | 10 |
| COMM 7003 | Foundations of Media Arts Production (PG) | 10 |
| CULT 7004 | Global Digital Futures | 10 |
| BUSM 7040 | Governance, Ethics and Social Entrepreneurship | 10 |
| LAWS 7015 | Information and Data Governance Law and Policy | 10 |
| BUSM 7048 | Innovation, Creativity and Foresight | 10 |
| BUSM 7046 | Innovation for New Markets | 10 |
| BUSM 7045 | Innovation Through Digital Technology | 10 |
| MKTG 7019 | Marketing Systems | 10 |
| COMM 7013 | Ideate, Develop: Makerspace 1 | 10 |
| COMM 7009 | Mobile Media | 10 |
| BUSM 7072 | New Venture Finance | 10 |
| COMM 7011 | Researching Convergent Media | 10 |
| BUSM 7084 | Start-up | 10 |
| BUSM 7086 | Strategic Business Management | 10 |
| BUSM 7099 | Understanding Contemporary Organisations | 10 |

Equivalent Subjects

The subjects listed below count towards completion of the program for students who may have passed subjects in the list in 2020 or earlier.

BUSM 7094 - The Contemporary Business Environment
 MECH 7004 - Advanced Mobile Robotics
 MECH 7005 - Advanced Robotics
 MECH 70008 - Genomic Data Science
 INFO 7008 - Modern Software Architectures

The core subjects listed below count towards completion of this program for students who passed these subjects in 2020 or earlier.
 ENGR 7018 - Research Preparation in Post Graduate Studies, replaced by NATS 7057 Research Preparation in Post Graduate Studies

COOM 7007 - Media Project Proposal, replaced by COMM 7013 Ideate, Develop: Makerspace 1
 ENGR 7014 - Master Project 1

The subjects listed below count towards completion of this program for students who passed these subjects in 2021 or earlier.

MATH 7011 Predictive Analytics, replaced by COMP 7023 Predictive Analytics

Replaced Testamur Majors

The Testamur Majors listed below count towards completion of this program for students who began studying these testamur majors prior to the years indicated below.

ST3064 Artificial Intelligence, Testamur Major (<http://handbook.westernsydney.edu.au/hbook/specialisation.aspx?unitset=ST3064.1>), replaced by Artificial Intelligence, Testamur Major in 2021 (listed above).

ST3054 Distributed Computing, Testamur Major (<http://handbook.westernsydney.edu.au/hbook/specialisation.aspx?unitset=ST3054.1>), replaced by Cloud and Distributed Computing, Testamur Major in 2021 (listed above).

ST3055 Health Informatics, Testamur Major (<http://handbook.westernsydney.edu.au/hbook/specialisation.aspx?unitset=ST3055.1>), replaced by Health Informatics, Testamur Major in 2021 (listed above).

ST3050 (<http://handbook.westernsydney.edu.au/hbook/specialisation.aspx?unitset=ST3055.1>) Web and Mobile Computing (<http://handbook.westernsydney.edu.au/hbook/specialisation.aspx?unitset=ST3050.1>), Testamur Major (<http://handbook.westernsydney.edu.au/hbook/specialisation.aspx?unitset=ST3055.1>), replaced by Web and Mobile Computing, Testamur Major in 2021 (listed above).

Recommended Sequence 2018 - 2022

Students are categorised into three Pathways based on their previous study background and work experience as indicated below and program structure and length is set accordingly. See individual links for detailed program structure.

Additional Completion Requirements

Students must complete a four week full-time or part-time equivalent industry placement as a Work Integrated Learning (WIL) component and must enrol in the ICT Practicum subject to receive recognition for WIL.

| Subject | Title | Credit Points |
|-----------|---------------|---------------|
| INFO 7004 | ICT Practicum | 0 |

Pathway A - Two Years

Students who have been admitted with non-Computing, non-ICT or non-Information Systems with Bachelor Qualifications are eligible to complete the two year Pathway below.

Qualification for this award requires the successful completion of 160 credit points including the subjects listed below plus 120 hours (full time or part-time equivalent) of work experience component.

Full-time start-year intake

| Course | Title | Credit Points |
|--|--|---------------|
| Year 1 | | |
| Autumn session | | |
| COMP 7015 | Programming Proficiency | 10 |
| INFS 7007 | Systems Analysis and Database Management Systems | 10 |
| COMP 7013 | Network Technologies | 10 |
| ENGR 7017 | Professional Practice and Communication | 10 |
| Credit Points | | 40 |
| Spring session | | |
| NATS 7057 | Research Preparation in Post Graduate Studies | 10 |
| Select three subjects from your Major or from the Foundation, Specialised or Multi-disciplinary subject lists. | | 30 |
| Credit Points | | 40 |

Year 2**Autumn session**

| | | |
|-----------|--|----|
| INFO 7003 | Advanced Topics in User System Interaction | 10 |
|-----------|--|----|

| | | |
|-----------|------------------------|----|
| INFO 7016 | Postgraduate Project A | 10 |
|-----------|------------------------|----|

| | |
|--|----|
| Select two subjects from your Major or from the Foundation, Specialised or Multi-disciplinary subject lists. | 20 |
|--|----|

| | |
|----------------------|-----------|
| Credit Points | 40 |
|----------------------|-----------|

Spring session

| | | |
|-----------|-----------------------|----|
| INFO 7005 | IT Project Management | 10 |
|-----------|-----------------------|----|

| | |
|--|----|
| Select three subjects from your Major or from the Foundation, Specialised or Multi-disciplinary subject lists. | 30 |
|--|----|

| | |
|----------------------|-----------|
| Credit Points | 40 |
|----------------------|-----------|

| | |
|----------------------------|------------|
| Total Credit Points | 160 |
|----------------------------|------------|

Full-time mid-year intake

| Course | Title | Credit Points |
|--------|-------|---------------|
|--------|-------|---------------|

Year 1**Spring session**

| | | |
|-----------|-------------------------|----|
| COMP 7015 | Programming Proficiency | 10 |
|-----------|-------------------------|----|

| | | |
|-----------|--|----|
| INFS 7007 | Systems Analysis and Database Management Systems | 10 |
|-----------|--|----|

| | | |
|-----------|----------------------|----|
| COMP 7013 | Network Technologies | 10 |
|-----------|----------------------|----|

| | | |
|-----------|---|----|
| ENGR 7017 | Professional Practice and Communication | 10 |
|-----------|---|----|

| | |
|----------------------|-----------|
| Credit Points | 40 |
|----------------------|-----------|

Autumn session

| | | |
|-----------|---|----|
| NATS 7057 | Research Preparation in Post Graduate Studies | 10 |
|-----------|---|----|

| | | |
|-----------|--|----|
| INFO 7003 | Advanced Topics in User System Interaction | 10 |
|-----------|--|----|

| | |
|--|----|
| Select two subjects from your Major or from the Foundation, Specialised or Multi-disciplinary subject lists. | 20 |
|--|----|

| | |
|----------------------|-----------|
| Credit Points | 40 |
|----------------------|-----------|

Year 2**Spring session**

| | | |
|-----------|-----------------------|----|
| INFO 7005 | IT Project Management | 10 |
|-----------|-----------------------|----|

| | | |
|-----------|------------------------|----|
| INFO 7016 | Postgraduate Project A | 10 |
|-----------|------------------------|----|

| | |
|--|----|
| Select two subjects from your Major or from the Foundation, Specialised or Multi-disciplinary subject lists. | 20 |
|--|----|

| | |
|----------------------|-----------|
| Credit Points | 40 |
|----------------------|-----------|

Autumn session

| | |
|---|----|
| Select four subjects from your Major or from the Foundation, Specialised or Multi-disciplinary subject lists. | 40 |
|---|----|

| | |
|----------------------|-----------|
| Credit Points | 40 |
|----------------------|-----------|

| | |
|----------------------------|------------|
| Total Credit Points | 160 |
|----------------------------|------------|

Pathway B - One and a Half Years

Students who have been admitted with non-Computing, non-ICT or non-Information Systems with Bachelor Honours or Masters Qualifications are eligible to complete the one and a half year Pathway below.

Qualification for this award requires the successful completion of 120 credit points including the subjects listed below plus 120 hours (full time or part-time equivalent) of work experience component.

Full-time start-year intake

| Course | Title | Credit Points |
|--------|-------|---------------|
|--------|-------|---------------|

Year 1**Autumn session**

| | | |
|-----------|-------------------------|----|
| COMP 7015 | Programming Proficiency | 10 |
|-----------|-------------------------|----|

| | | |
|-----------|--|----|
| INFS 7007 | Systems Analysis and Database Management Systems | 10 |
|-----------|--|----|

| | | |
|-----------|----------------------|----|
| COMP 7013 | Network Technologies | 10 |
|-----------|----------------------|----|

| | | |
|-----------|---|----|
| ENGR 7017 | Professional Practice and Communication | 10 |
|-----------|---|----|

| | |
|----------------------|-----------|
| Credit Points | 40 |
|----------------------|-----------|

Spring session

| | | |
|-----------|---|----|
| NATS 7057 | Research Preparation in Post Graduate Studies | 10 |
|-----------|---|----|

| | | |
|-----------|-----------------------|----|
| INFO 7005 | IT Project Management | 10 |
|-----------|-----------------------|----|

| | |
|--|----|
| Select two subjects from your Major or from the Foundation, Specialised or Multi-disciplinary subject lists. | 20 |
|--|----|

| | |
|----------------------|-----------|
| Credit Points | 40 |
|----------------------|-----------|

Year 2**Autumn session**

| | | |
|-----------|--|----|
| INFO 7003 | Advanced Topics in User System Interaction | 10 |
|-----------|--|----|

| | | |
|-----------|------------------------|----|
| INFO 7016 | Postgraduate Project A | 10 |
|-----------|------------------------|----|

| | |
|--|----|
| Select two subjects from your Major or from the Foundation, Specialised or Multi-disciplinary subject lists. | 20 |
|--|----|

| | |
|----------------------|-----------|
| Credit Points | 40 |
|----------------------|-----------|

| | |
|----------------------------|------------|
| Total Credit Points | 120 |
|----------------------------|------------|

Full-time mid-year intake

| Course | Title | Credit Points |
|--------|-------|---------------|
|--------|-------|---------------|

Year 1**Spring session**

| | | |
|-----------|-------------------------|----|
| COMP 7015 | Programming Proficiency | 10 |
|-----------|-------------------------|----|

| | | |
|-----------|--|----|
| INFS 7007 | Systems Analysis and Database Management Systems | 10 |
|-----------|--|----|

| | | |
|-----------|----------------------|----|
| COMP 7013 | Network Technologies | 10 |
|-----------|----------------------|----|

| | | |
|-----------|---|----|
| ENGR 7017 | Professional Practice and Communication | 10 |
|-----------|---|----|

| | |
|----------------------|-----------|
| Credit Points | 40 |
|----------------------|-----------|

Autumn session

| | | |
|-----------|---|----|
| NATS 7057 | Research Preparation in Post Graduate Studies | 10 |
|-----------|---|----|

| | | |
|-----------|--|----|
| INFO 7003 | Advanced Topics in User System Interaction | 10 |
|-----------|--|----|

| | |
|--|----|
| Select two subjects from your Major or from the Foundation, Specialised or Multi-disciplinary subject lists. | 20 |
|--|----|

| | |
|----------------------|-----------|
| Credit Points | 40 |
|----------------------|-----------|

Year 2**Spring session**

| | | |
|-----------|-----------------------|----|
| INFO 7005 | IT Project Management | 10 |
|-----------|-----------------------|----|

| | | |
|-----------|------------------------|----|
| INFO 7016 | Postgraduate Project A | 10 |
|-----------|------------------------|----|

| | |
|--|----|
| Select two subjects from your Major or from the Foundation, Specialised or Multi-disciplinary subject lists. | 20 |
|--|----|

| | |
|----------------------|-----------|
| Credit Points | 40 |
|----------------------|-----------|

| | |
|----------------------------|------------|
| Total Credit Points | 120 |
|----------------------------|------------|

Pathway C - One and a Half Years

Students who have been admitted with Computing, ICT or Information Systems with Bachelor or Bachelor Honours or Masters Qualifications are eligible to complete the one a half year Pathway below.

Qualification for this award requires the successful completion of 120 credit points including the subjects listed below plus 120 hours (full time or part-time equivalent) of work experience component.

Full-time start-year intake

| Course | Title | Credit Points |
|--|---|---------------|
| Year 1 | | |
| Autumn session | | |
| COMP 7013 | Network Technologies | 10 |
| ENGR 7017 | Professional Practice and Communication | 10 |
| Select two subjects from your Major or from the Foundation, Specialised or Multi-disciplinary subject lists. | | 20 |
| Credit Points | | 40 |
| Spring session | | |
| NATS 7057 | Research Preparation in Post Graduate Studies | 10 |
| INFO 7005 | IT Project Management | 10 |
| Select two subjects from your Major or from the Foundation, Specialised or Multi-disciplinary subject lists. | | 20 |
| Credit Points | | 40 |
| Year 2 | | |
| Autumn session | | |
| INFO 7016 | Postgraduate Project A | 10 |
| Select three subjects from your Major or from the Foundation, Specialised or Multi-disciplinary subject lists. | | 30 |
| Credit Points | | 40 |
| Total Credit Points | | 120 |

Full-time mid-year intake

| Course | Title | Credit Points |
|--|---|---------------|
| Year 1 | | |
| Spring session | | |
| COMP 7013 | Network Technologies | 10 |
| ENGR 7017 | Professional Practice and Communication | 10 |
| Select two subjects from your Major or from the Foundation, Specialised or Multi-disciplinary subject lists. | | 20 |
| Credit Points | | 40 |
| Autumn session | | |
| NATS 7057 | Research Preparation in Post Graduate Studies | 10 |
| Select three subjects from your Major or from the Foundation, Specialised or Multi-disciplinary subject lists. | | 30 |
| Credit Points | | 40 |
| Year 2 | | |
| Spring session | | |
| INFO 7005 | IT Project Management | 10 |
| INFO 7016 | Postgraduate Project A | 10 |
| Select two subjects from your Major or from the Foundation, Specialised or Multi-disciplinary subject lists. | | 20 |
| Credit Points | | 40 |
| Total Credit Points | | 120 |