

# BACHELOR OF INFORMATION AND COMMUNICATIONS TECHNOLOGY/BACHELOR OF BUSINESS (3737)

**Approved Abbreviation:** BICT/BBus

**Western Sydney University Program Code:** 3737

**AQF Level:** 7

**CRICOS Code:** 089213G

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 2016, please refer to: 3737.1 Bachelor of Information and Communications Technology/Bachelor of Business (<http://handbook.westernsydney.edu.au/hbook/course.aspx?course=3737.1>)

This double degree targets the wide application of information technology in Business. It provides students with a strong technical background in IT and Business. It allows students to develop skills in application development, program design, systems analysis and design, networks, web development, and the implementation of technology.

This degree combines information technology with a Business Majors in either Applied Finance, Economics, Human Resource Management, International Business, Management, Marketing, Sport Management or Business Analytics.

Students may be required to travel between campuses for some learning experiences.

## Study Mode

Four years full-time.

## 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
Bankstown City Campus	Full Time	Internal	See above
Campbelltown Campus	Full Time	Internal	See above
Parramatta Campus - Victoria Road	Full Time	Internal	See above

## Accreditation

The business component of this program is accredited by the Association to Advance Collegiate Schools of Business (AACSB). The following Business Majors are accredited:

- Major T041 Human Resource Management is accredited with the Australian Human Resources Institute (AHRI).
- Major T038 Applied Finance satisfies the educational requirements for membership of the Financial Services Institute of Australasia (Finsia).
- Major T044 Marketing satisfies the requirements of accreditation of Marketing subjects in accordance with the Australian Marketing Institute's Accreditation and Endorsement Program. On completion of an AMI Accredited program graduates are eligible for special graduate membership rates and credit towards becoming a Certified Practising Marketer (CPM) in a shorter duration of time. Specifically, graduates are eligible to apply for a reduction off the minimum five (5) years industry experience required before becoming a CPM.

## 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/](https://www.westernsydney.edu.au/currentstudents/current_students/services_and_facilities/international_student_support/working_in_australia/work_integrated_learning/))

## Admission

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

Applications from Australian and New Zealand citizens and holders of permanent resident visas 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 2022

Students who complete this award will graduate with a Bachelor of Information and Communications Technology and a Bachelor of Business, with the major from the Bachelor of Business component of the program noted on their testamur.

### Bachelor of Information and Communications Technology Component

Students must complete 160 credit points of prescribed Bachelor of Information and Communications Technology subjects.

### Business Component

#### Core Subjects (compulsory 40 credit points)

Subject	Title	Credit Points
LAWS 1001	Enterprise Law	10
BUSM 1010	Financing Enterprises	10
BUSM 1006	Enterprise Innovation and Markets	10
BUSM 1008	Enterprise Leadership	10
<b>Total Credit Points</b>		<b>40</b>

#### Professional Subjects (choose 40 credit points)

The professional subjects provide a focus on careers. Students are required to complete one subject 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 subjects 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 subjects that are recommended for each of the Bachelor of Business testamur majors are specified in the majors.

### Bachelor of Business Majors

Choose 80 credit points from one primary Business major. These are testamur majors.

#### Majors for Careers in Money

Applied Finance, Testamur Major (T038) (<https://hbook.westernsydney.edu.au/majors-minors/applied-finance-ug-testamur-major/>)

Economics, Testamur Major (T039) (<https://hbook.westernsydney.edu.au/majors-minors/economics-ug-testamur-major/>)

#### Majors for Careers in Markets

Human Resource Management, Testamur Major (T041) (<https://hbook.westernsydney.edu.au/majors-minors/human-resource-management-ug-testamur-major/>)

International Business, Testamur Major (T042) (<https://hbook.westernsydney.edu.au/majors-minors/international-business-ug-testamur-major/>)

Marketing, Testamur Major (T044) (<https://hbook.westernsydney.edu.au/majors-minors/marketing-ug-testamur-major/>)

#### Majors for Careers in Management

Human Resource Management, Testamur Major (T041) (<https://hbook.westernsydney.edu.au/majors-minors/human-resource-management-ug-testamur-major/>)

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

#### Major for Careers in Business Analytics

Business Analytics, Testamur Major (T130) (<https://hbook.westernsydney.edu.au/majors-minors/business-analytics-ug-testamur-major/>)

#### Replaced Majors

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

MT2035 Hospitality Management, Testamur Major (<http://handbook.westernsydney.edu.au/hbook/specialisation.aspx?unitset=MT2035.1>), discontinued in 2020.

MT2027 Marketing, Testamur Major (<http://handbook.westernsydney.edu.au/hbook/specialisation.aspx?unitset=M1054.1>), replaced by Marketing, Testamur Major in 2021 (listed above).

## Recommended Sequence 2022

Qualification for this award requires the successful completion of 320 credit points as per the recommended sequence below.

Use the links to each Bachelor of Business (BBus) Major to see the core, professional and major subjects required.

Note: 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 subjects 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 Program Advisor.

Course	Title	Credit Points
<b>Year 1</b>		
<b>Autumn session</b>		
INFS 1006	Systems Analysis and Design	10
COMP 1005	Programming Fundamentals	10
BBus core subject 1		10
BBus core subject 2		10
<b>Credit Points</b>		<b>40</b>

**Spring session**

INFS 2001	Database Design and Development	10
COMP 2015	Programming Techniques	10
BBus core subject 3		10
BBus core subject 4		10

<b>Credit Points</b>	<b>40</b>
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**Year 2****Autumn session**

INFS 2006	Object Oriented Analysis	10
COMP 2020	Technologies for Web Applications	10
BBus professional subject 1		10
BBus major subject 1		10

<b>Credit Points</b>	<b>40</b>
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**Spring session**

INFS 3017	Web Systems Development	10
COMP 2004	Computer Networking	10
BBus professional subject 2		10
BBus major subject 2		10

<b>Credit Points</b>	<b>40</b>
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**Year 3****Autumn session**

COMP 3007	Computer Networks and Internets	10
INFO 3003	Human-Computer Interaction	10
BBus major subject 3		10
BBus major subject 4		10

<b>Credit Points</b>	<b>40</b>
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**Spring session**

COMP 3020	Social Web Analytics	10
BICT pool subject		10
BBus major subject 5		10
BBus major subject 6		10

<b>Credit Points</b>	<b>40</b>
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**Year 4****Autumn session**

INFO 3008	Professional Development	10
COMP 3015	Operating Systems Programming	10
BBus professional subject 3		10
BBus major subject 7		10

<b>Credit Points</b>	<b>40</b>
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**Spring session**

COMP 3018	Professional Experience	10
BICT pool subject		10
BBus professional subject 4		10
BBus major subject 8		10

<b>Credit Points</b>	<b>40</b>
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<b>Total Credit Points</b>	<b>320</b>
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**BICT Pool Subjects**

Subject	Title	Credit Points
PHYS 3001	Astroinformatics	10
INFS 3005	Developing Web Applications with XML	10
INFO 3002	Ethical Hacking Principles and Practice	10
COMP 3013	Mobile Applications Development	10
INFO 3007	Network Security	10
COMP 3019	Professional Experience (Advanced)	10

COMP 3023	Systems and Network Management	10
COMP 3024	Video Games Development	10

**Program Structure 2023**

Students who complete this award will graduate with a Bachelor of Information and Communications Technology and a Bachelor of Business, with the major from the Bachelor of Business component of the program noted on their testamur.

**Bachelor of Information and Communications Technology Component**

Students must complete 120 credit points of core Bachelor of Information and Communications Technology subjects plus 40 credit points of a BICT minor.

**Business Component****Core subjects (compulsory 40 credit points)**

Four compulsory core subjects that provide students with essential business knowledge.

Subject	Title	Credit Points
LAWS 1001	Enterprise Law	10
BUSM 1010	Financing Enterprises	10
BUSM 1006	Enterprise Innovation and Markets	10
BUSM 1008	Enterprise Leadership	10
<b>Total Credit Points</b>		<b>40</b>

**Professional subjects (choose 40 credit points)**

The professional subjects provide a focus on careers. Students are required to complete one subject 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 subjects that will support careers in one of four areas:

- Money (for majors in Applied Finance, Economics)
- Markets (for majors in International Business, Marketing, and Sport Management)
- Management (for majors in Human Resource Management, and Management)
- Business Analytics (for major in Business Analytics).

The professional subjects that are recommended for each of the Bachelor of Business testamur majors are specified in the majors.

**Bachelor of Business Majors**

Choose 80 credit points from one primary Business major. These are testamur majors.

**Majors for Careers in Money**

Applied Finance, Testamur Major (T038) (<https://hbook.westernsydney.edu.au/majors-minors/applied-finance-ug-testamur-major/>)

Economics, Testamur Major (T039) (<https://hbook.westernsydney.edu.au/majors-minors/economics-ug-testamur-major/>)

**Majors for Careers in Markets**

International Business, Testamur Major (T042) (<https://hbook.westernsydney.edu.au/majors-minors/international-business-ug-testamur-major/>)

Marketing, Testamur Major (T044) (<https://hbook.westernsydney.edu.au/majors-minors/marketing-ug-testamur-major/>)

Sport Management, Testamur Major (T045) (<https://hbook.westernsydney.edu.au/majors-minors/sport-management-ug-testamur-major/>)

### Majors for Careers in Management

Human Resource Management, Testamur Major (T041) (<https://hbook.westernsydney.edu.au/majors-minors/human-resource-management-ug-testamur-major/>)

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

### Majors for Careers in Business Analytics

Business Analytics, Testamur Major (T130) (<https://hbook.westernsydney.edu.au/majors-minors/business-analytics-ug-testamur-major/>)

## Recommended Sequence Autumn 2023

This sequence applies to students who commenced in Autumn 2023 or later. If you commenced prior to 2023 please refer to the Sequence 2022 tab for details.

Qualification for this award requires the successful completion of 320 credit points as per the recommended sequence below. 320 credit points which include:

- 160 credit points of prescribed Bachelor of Information and Communications Technology subjects
- 160 credit points of prescribed Bachelor of Business subjects

Use the links to each Bachelor of Business (BBus) Major to see the core, professional and major subjects required.

Note: 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 subjects 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.

Course	Title	Credit Points
<b>Year 1</b>		
<b>Autumn session</b>		
COMP 1005	Programming Fundamentals	10
MATH 1038	Mathematics for Computing	10
BBus core subject 1		10
BBus core subject 2		10
<b>Credit Points</b>		<b>40</b>
<b>Spring session</b>		
COMP 2004	Computer Networking	10
INFS 2001	Database Design and Development	10
BBus core subject 3		10
BBus core subject 4		10
<b>Credit Points</b>		<b>40</b>

### Year 2

#### Autumn session

INFO 1003	Professional Practice, Communication and Ethics	10
HUMN 1013	Contextualising Indigenous Australia (Day Mode)	10
BBus professional subject 1		10
BBus major subject 1		10
<b>Credit Points</b>		<b>40</b>

#### Spring session

COMP 2021	Software Engineering Fundamentals	10
COMP 2015	Programming Techniques	10
BBus professional subject 2		10
BBus major subject 2		10
<b>Credit Points</b>		<b>40</b>

### Year 3

#### Autumn session

COMP 2027	Cyber Security	10
BICT minor subject		10
BBus major subject 3		10
BBus major subject 4		10
<b>Credit Points</b>		<b>40</b>

#### Spring session

COMP 3028	Software Construction	10
BICT minor subject		10
BBus major subject 5		10
BBus major subject 6		10
<b>Credit Points</b>		<b>40</b>

### Year 4

#### Autumn session

BICT minor subject		10
BICT minor subject		10
BBus professional subject 3		10
BBus major subject 7		10
<b>Credit Points</b>		<b>40</b>

#### Spring session

INFO 3019	Project Management	10
COMP 3018	Professional Experience	10
BBus professional subject 4		10
BBus major subject 8		10
<b>Credit Points</b>		<b>40</b>
<b>Total Credit Points</b>		<b>320</b>

## Bachelor of Information and Communications Technology Minors

Cloud Computing, Minor (0128) (<https://hbook.westernsydney.edu.au/majors-minors/cloud-computing-minor/>)

Cyber Security and Ethical Hacking, Minor (0326) (<https://hbook.westernsydney.edu.au/majors-minors/cyber-security-ethical-hacking-minor/>)

Data Science and Machine Learning, Minor (0322) (<https://hbook.westernsydney.edu.au/majors-minors/data-science-machine-learning-minor/>)

Games Development, Minor (0323) (<https://hbook.westernsydney.edu.au/majors-minors/games-development/>)

Graphics and Visual Simulation, Minor (0324) (<https://hbook.westernsydney.edu.au/majors-minors/graphics-visual-simulation-minor/>)

Health Informatics, Minor (0037) (<https://hbook.westernsydney.edu.au/majors-minors/health-informatics-minor/>)

Multimedia Computing, Minor (0328) (<https://hbook.westernsydney.edu.au/majors-minors/multimedia-computing-minor-0328/>)

Networking, Minor (0040) (<https://hbook.westernsydney.edu.au/majors-minors/networking-minor/>)

Software Development, Minor (0329) (<https://hbook.westernsydney.edu.au/majors-minors/software-development-minor-0329/>)

Ubiquitous Computing, Minor (0325) (<https://hbook.westernsydney.edu.au/majors-minors/ubiquitous-computing/>)

## Recommended Sequence Spring 2023

This sequence applies to students who commenced in Spring 2023.

If you commenced in Autumn 2023 please refer to the Autumn 2023 Sequence tab for details. If you commenced prior to 2023 please refer to the Sequence 2022 tab for details.

Qualification for this award requires the successful completion of 320 credit points as per the recommended sequence below. 320 credit points which include:

- 160 credit points of prescribed Bachelor of Information and Communications Technology subjects
- 160 credit points of prescribed Bachelor of Business subjects

Use the links to each Bachelor of Business (BBus) Major to see the core, professional and major subjects required.

Note: 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 subjects 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.

Course	Title	Credit Points
<b>Year 1</b>		
<b>Autumn session</b>		
BBus core subject 1		10
BBus core subject 2		10
COMP 1005	Programming Fundamentals	10
Select one of the following		10
MATH 1038	Mathematics for Computing	
MATH 1006	Discrete Mathematics	
<b>Credit Points</b>		<b>40</b>
<b>Spring session</b>		
COMP 2004	Computer Networking	10
INFS 2001	Database Design and Development	10
BBus core subject 3		10
BBus core subject 4		10
<b>Credit Points</b>		<b>40</b>

### Year 2

#### Autumn session

INFO 1003	Professional Practice, Communication and Ethics	10
HUMN 1013	Contextualising Indigenous Australia (Day Mode)	10
BBus professional subject 1		10
BBus major subject 1		10
<b>Credit Points</b>		<b>40</b>

#### Spring session

COMP 2021	Software Engineering Fundamentals	10
COMP 2015	Programming Techniques	10
BBus professional subject 2		10
BBus major subject 2		10
<b>Credit Points</b>		<b>40</b>

### Year 3

#### Autumn session

COMP 2027	Cyber Security	10
BICT minor subject		10
BBus major subject 3		10
BBus major subject 4		10
<b>Credit Points</b>		<b>40</b>

#### Spring session

COMP 3028	Software Construction	10
BICT minor subject		10
BBus major subject 5		10
BBus major subject 6		10
<b>Credit Points</b>		<b>40</b>

### Year 4

#### Autumn session

BICT minor subject		10
BICT minor subject		10
BBus professional subject 3		10
BBus major subject 7		10
<b>Credit Points</b>		<b>40</b>

#### Spring session

INFO 3019	Project Management	10
COMP 3018	Professional Experience	10
BBus professional subject 4		10
BBus major subject 8		10
<b>Credit Points</b>		<b>40</b>
<b>Total Credit Points</b>		<b>320</b>

## Bachelor of Information and Communications Technology Minors

Cloud Computing, Minor (0128) (<https://hbook.westernsydney.edu.au/majors-minors/cloud-computing-minor/>)

Cyber Security and Ethical Hacking, Minor (0326) (<https://hbook.westernsydney.edu.au/majors-minors/cyber-security-ethical-hacking-minor/>)

Data Science and Machine Learning, Minor (0322) (<https://hbook.westernsydney.edu.au/majors-minors/data-science-machine-learning-minor/>)

Games Development, Minor (0323) (<https://hbook.westernsydney.edu.au/majors-minors/games-development/>)

Graphics and Visual Simulation, Minor (0324) (<https://hbook.westernsydney.edu.au/majors-minors/graphics-visual-simulation-minor/>)

Health Informatics, Minor (0037) (<https://hbook.westernsydney.edu.au/majors-minors/health-informatics-minor/>)

Multimedia Computing, Minor (0328) (<https://hbook.westernsydney.edu.au/majors-minors/multimedia-computing-minor-0328/>)

Networking, Minor (0040) (<https://hbook.westernsydney.edu.au/majors-minors/networking-minor/>)

Software Development, Minor (0329) (<https://hbook.westernsydney.edu.au/majors-minors/software-development-minor-0329/>)

Ubiquitous Computing, Minor (0325) (<https://hbook.westernsydney.edu.au/majors-minors/ubiquitous-computing/>)