BACHELOR OF INFORMATION AND COMMUNICATIONS TECHNOLOGY (3639)

Approved Abbreviation: BICT

Western Sydney University Program Code: 3639

AQF Level: 7

CRICOS Code: 064013K

This program applies to students who commenced in 2016 or later.

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

For Commencement Year 2014, please refer to: 3639.3 Bachelor of Information and Communications Technology (http://handbook.uws.edu.au/hbook/course.aspx?course=3639.3)

For Commencement Year 2009 to Autumn 2013, please refer to: 3639.1 Bachelor of Information and Communications Technology (http://handbook.uws.edu.au/hbook/course.aspx?course=3639.1)

The Bachelor of Information and Communications Technology is a three year program accredited by the Australian Computer Society. It provides graduates with skills and knowledge in networking and IT applications development, along with the ability to apply practical ICT solutions in real-world situations. Subjects available offer a solid foundation across several domains including Networking, Databases, Systems Analysis & Design, Programming, Web and Mobile Technologies, Project Management, Professional Communications, Operating Systems and Human Computer Interaction. It also covers the necessary mathematical and statistical skills as needed by an ICT practitioner. The structure of the Program provides scope for electives, minors or majors in further studies including the areas of Mobile Computing and Application Development, Entertainment Computing, Astroinformatics, Health Informatics, Social Media Analytics, Networking, Health Information Management, Mathematics, Statistics, Systems Security and IT Support. NB: Majors / minors may not be offered on all campuses.

Study Mode

Three years full-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
Campbelltown Campus	Full Time	Internal	See above
Parramatta Campus - Victoria Road	Full Time	Internal	See above
Penrith Campus	Full Time	Internal	See above

Sydney City	Full Time	Internal	Antoinette
Campus			Cevenini
			(https://
			directory.westernsydney.edu
			old/
			srchprocess_handbook.php
			a_value=a.cevenini@city.we

Accreditation

On completion of this Program graduates will be eligible for professional membership of 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

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

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

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

Recommended Sequence - Sydney City Campus

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

Recommended Sequence - Campbelltown, Parramatta and Penrith Campuses Full-time start-year intake

Course	Title	Credit Points
Year 1		
Autumn session		
COMP 1005	Programming Fundamentals	10
COMM 1026	Principles of Professional Communication 1	10
INFS 1006	Systems Analysis and Design	10
MATH 1028	Statistical Decision Making	10
	Credit Points	40
Spring session		
COMP 2004	Computer Networking	10
COMP 2015	Programming Techniques	10
INFS 2001	Database Design and Development	10
Select one elective		10
	Credit Points	40
Year 2		
Autumn session		
COMP 2020	Technologies for Web Applications	10
COMP 3007	Computer Networks and Internets	10
INFS 2006	Object Oriented Analysis	10
Select one elective		10
	Credit Points	40
Spring session		
INFS 3017	Web Systems Development	10
COMP 3020	Social Web Analytics	10
Select two electives		20
	Credit Points	40
Year 3		
Autumn session		
INFO 3003	Human-Computer Interaction	10
INFO 3008	Professional Development	10
COMP 3015	Operating Systems Programming	10
Select one elective		10
	Credit Points	40
Spring session		
COMP 3018	Professional Experience	10
Select three electives	S	30
	Credit Points	40
	Total Credit Points	240

Full-time mid-year intake

Course	Title	Credit
Year 1		Points
Spring session		
COMP 2004	Computer Networking	10
INFS 2001	Database Design and Development	10
MATH 1030	Statistics for Business	10
Select one elective		10
	Credit Points	40
Autumn session		
COMP 1005	Programming Fundamentals	10
INFS 1006	Systems Analysis and Design	10
COMP 3007	Computer Networks and Internets	10
COMM 1026	Principles of Professional Communication	10
	1	
	Credit Points	40
Year 2		
Spring session		
COMP 2015	Programming Techniques	10
COMP 3020	Social Web Analytics	10
Select two electives		20
	Credit Points	40
Autumn session		
COMP 2020	Technologies for Web Applications	10
INFO 3008	Professional Development	10
INFS 2006	Object Oriented Analysis	10
INFO 3003	Human-Computer Interaction	10
	Credit Points	40
Year 3		
Spring session		
INFS 3017	Web Systems Development	10
Select three electives	S	30
	Credit Points	40
Autumn session		
COMP 3018	Professional Experience	10
COMP 3015	Operating Systems Programming	10
Select two electives		20
	Credit Points	40
	Total Credit Points	240

Start-year 2.5 Year Accelerated Pathway with Summer Session

Course	Title	Credit Points
Year 1		
Autumn session		
COMP 1005	Programming Fundamentals	10
COMM 1026	Principles of Professional Communication 1	10
INFS 1006	Systems Analysis and Design	10
MATH 1028	Statistical Decision Making	10
	Credit Points	40
Spring session		
COMP 2015	Programming Techniques	10
COMP 2004	Computer Networking	10

240

	Total Credit Points	240
	Credit Points	40
Select two electives		20
COMP 3015	Operating Systems Programming	10
COMP 3018	Professional Experience	10
Autumn session		
Year 3		
	Credit Points	20
session may restrict	the choice of major that can be completed.	
Please note that the	choice of elective subject in Summer A	
Select one elective		10
INFO 3008	Professional Development	10
Summer A session		
	Credit Points	40
Select two electives		20
COMP 3020	Social Web Analytics	10
INFS 3017	Web Systems Development	10
Spring session		
	Credit Points	40
Select two electives	·	20
INFS 2006	Object Oriented Analysis	10
COMP 3007	Computer Networks and Internets	10
Autumn session		
Year 2		
	Credit Points	20
INFO 3003	Human-Computer Interaction	10
COMP 2020	Technologies for Web Applications	10
Summer A session	orealt rolling	40
	Credit Points	40
Select one elective	Buttabade Bedigit and Bevelopment	10
INFS 2001	Database Design and Development	10

Mid-Year 2.5 Year Accelerated Pathway with Summer Session

Course	Title	Credit Points
Year 1		
Spring session		
COMP 2004	Computer Networking	10
INFS 2001	Database Design and Development	10
MATH 1030	Statistics for Business	10
Select one elective		10
	Credit Points	40
Summer A session		
INFS 1006	Systems Analysis and Design	10
INFO 3003	Human-Computer Interaction	10
	Credit Points	20
Autumn session		
COMP 1005	Programming Fundamentals	10
COMP 3007	Computer Networks and Internets	10
INFS 2006	Object Oriented Analysis	10
COMM 1026	Principles of Professional Communication	10
	Credit Points	40

Year 2	
Spring	session

Spring session		
COMP 2015	Programming Techniques	10
COMP 3020	Social Web Analytics	10
Select two electives		20
	Credit Points	40
Summer A session		
COMP 2020	Technologies for Web Applications	10
Select one elective		10
	choice of elective subject in Summer A the choice of major that can be completed.	
	Credit Points	20
Autumn session		
INFO 3008	Professional Development	10
COMP 3015	Operating Systems Programming	10
Select two electives		20
	Credit Points	40
Year 3		
Spring session		
INFS 3017	Web Systems Development	10
COMP 3018	Professional Experience	10
Select two electives		20
	Credit Points	40

Elective Majors and Minors

Please note: majors and minors are optional.

Majors

Campbelltown, Parramatta and Penrith Campuses

Cyber Security, Major (0066) (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/cyber-security-major/)

Total Credit Points

Entertainment Computing, Major (0145) (https://

hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/entertainment-computing-major/)

Health Informatics, Major (0037) (https://

hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/health-informatics-major/)

Mathematics, Major (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/mathematics-major/)

Mobile Computing, Major (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/mobile-computing-major/)

Networking, Major (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/networking-major/)

Technology Entrepreneurship, Major (https://

hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/

technology-entrepreneurship-major/)

Sydney City Campus

Mobile Computing, Major (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/mobile-computing-major/) Networking, Major (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/networking-major/)

Minors

Campbelltown, Parramatta and Penrith Campuses

Astroinformatics, Minor (0096) (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/astroinformatics-minor/)

Cloud Computing, Minor (0128) (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/cloud-computing-minor/)

Entertainment Computing, Minor (0145) (https://

hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/entertainment-computing-minor/)

Health Informatics, Minor (0037) (https://

hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/health-informatics-minor/)

IT Support, Minor (0205) (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/it-support-minor/)

Mathematics, Minor (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/mathematics-minor/)

Mobile Computing, Minor (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/mobile-computing-minor/)

Networking, Minor (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/networking-minor/)

Social Media Analytics, Minor (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/social-media-analytics-minor/)

Systems Security, Minor (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/systems-security-minor/)

Web Application Development (for Computing Students), Minor (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/web-application-development-for-computing-students-minor/)

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

The following majors and minors are only available to undergraduate students enrolled in other Western Sydney University programs.

Information Technology

Web Systems Development

Mobile Application Development (for Non-computing Students only)

Web Application Development (for Non-Computing Students)

Major and Minor elective spaces

Elective subjects may be used toward obtaining an additional approved major (80 credit points) or minor (40 credit points). Western Sydney University offers majors and minors in a range of areas including Sustainability and Indigenous Studies.

Global Sustainability Minor (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/global-sustainability-minor/) Indigenous Australian Studies Major (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/indigenous-australian-studies-major/) Indigenous Australian Studies Minor (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/indigenous-australian-studies-minor/)

Western Sydney University also offers the following innovative transdisciplinary minors which we encourage those students who have elective space to consider.

Equitable Technologies (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/equitable-technologies-minor/) Urban Evolution (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/urban-evolution-minor/) Migration and Global Change (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/migration-global-change-minor/) Personal Innovation (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/personal-innovation-minor/)

Innovating, Creating and Problem Solving (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/innovating-creating-problem-solving-minor/)
Eco-Socially Conscious Design and Manufacturing (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/eco-socially-conscious-design-manufacturing-minor/)
Water for Life (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/water-life-minor/)
Climate Justice (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/climate-justice-minor/)
Global Workplaces (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/global-workplaces-minor/)
Innovating For Humans (https://hbook.westernsydney.edu.au/

Search for majors and minors (https://hbook.westernsydney.edu.au/archives/2021-2022/majors-minors/)

archives/2021-2022/majors-minors/innovating-humans-minor/)

Students can apply for an elective major or minor via MySR.

MyStudentRecords (MySR) (https://studentselfservice.westernsydney.edu.au/StudentSelfService/ssb/ studentCommonDashboard/)

Replaced Majors and Minors

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

M3102 Cyber Security, Major (http://handbook.westernsydney.edu.au/hbook/specialisation.aspx?unitset=M3102.1), replaced by Cyber Security, Major in 2018 (listed above).

M3070 Networking, Major (http://handbook.westernsydney.edu.au/hbook/specialisation.aspx?unitset=M3070.1), replaced by Networking, Major in 2017 (listed above).

SM3055 Networking, Minor (http://handbook.westernsydney.edu.au/hbook/specialisation.aspx?unitset=SM3055.1), replaced by Networking, Minor in 2017 (listed above).

SM3089 Statistics, Minor (http://handbook.westernsydney.edu.au/hbook/specialisation.aspx?unitset=SM3089.1), discontinued from 2020