

DIPLOMA/BACHELOR OF INFORMATION AND COMMUNICATIONS TECHNOLOGY (6039)

Approved Abbreviation: DipICT/BICT

Western Sydney University Program Code: 6039

AQF Level: 7

CRICOS Code: 096985D

This program applies to students who commenced in Term 1, 2018.

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.

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

A Diploma in Information and Communications Technology exit point is also available at the end of the first year of the program.

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

Western Sydney University, The College (<https://www.westernsydney.edu.au/future/study/application-pathways/the-college.html>)

Early Exit

Students may exit this program on completion of 100 credit points with a 7163 Diploma in Information and Communications Technology (<https://hbook.westernsydney.edu.au/archives/2023-2024/programs/diploma-information-communications-technology/>)

Study Mode

Three years full-time.

Students will be required to attend the Kingswood or Parramatta South campus for some learning experiences.

Program Advice

For program advice during your first year of study, please use the contact below

College Program Enquiries (<https://directory.westernsydney.edu.au/search/email/AdminApp@westernsydney.edu.au>)

For program advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Information and Communications Technology.

Bachelor of Information and Communications Technology (<https://hbook.westernsydney.edu.au/archives/2023-2024/programs/bachelor-information-communications-technology/>)

Location

Campus	Attendance	Mode	Advice
The College - Nirimba Education Precinct ¹	Full Time	Internal	See above
Campbelltown Campus ²	Full Time	Internal	See above
Parramatta Campus - Victoria Road ²	Full Time	Internal	See above
Parramatta City Campus - George Street ²	Full Time	Internal	See above
Penrith Campus ²	Full Time	Internal	See above

¹ Students will study at WSU The College Nirimba or Parramatta campus in their first year of study.

² From second year onwards, students will either study at Campbelltown, Parramatta (Victoria Rd), Parramatta City (George St) or Penrith campus.

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

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

https://www.westernsydney.edu.au/thecollege/how_to_apply (https://www.westernsydney.edu.au/thecollege/how_to_apply)

Domestic students are required to have

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

Students are also assumed to have completed a Mathematics subject, equivalent to the Mathematics unit in the NSW Higher School Certificate.

Met other entry requirements such as

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

International students must satisfy one of the following language requirements

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

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

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

Program Structure

Qualification for this award requires the successful completion of 260 credit points which include the subjects listed in the recommended sequence below.

Western Sydney University The College Subjects

Nirimba and Parramatta City (George Street) Campus

Course	Title	Credit Points
Trimester 1		
GEDU 0010	Tertiary Study Skills in Information and Communications Technology (WSTC Prep)	0
COMP 0003	Programming Design (WSTC Prep)	5
MATH 0008	Mathematics 2 (WSTC Prep)	10
COMM 1027	Principles of Professional Communication 1 (WSTC)	10
INFS 1003	Information Systems in Context (WSTC)	10
	Credit Points	35
Trimester 2		
INFS 1007	Systems Analysis and Design (WSTC)	10
MATH 0028	Statistics for Academic Purposes (WSTC Prep)	5
COMP 1006	Programming Fundamentals (WSTC)	10
INFS 2003	Database Design and Development (WSTC)	10
	Credit Points	35
Trimester 3		
COMP 2006	Computer Networking (WSTC)	10
MATH 1029	Statistical Decision Making (WSTC)	10
MATH 2013	Object Oriented Analysis (WSTC)	
From Term 2 2022 MATH 2013 replaced by INFS 2011		10

INFS 2011	Object Oriented Analysis (WSTC)
Credit Points	30
Total Credit Points	100

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

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

Western Sydney University Subjects

For program advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Information and Communications Technology (<https://hbook.westernsydney.edu.au/archives/2023-2024/programs/bachelor-information-communications-technology/>).

Campbelltown, Parramatta (Victoria Road) and Penrith Campus

Course	Title	Credit Points
Year 2		
Autumn session		
COMP 2020	Technologies for Web Applications	10
COMP 3007	Computer Networks and Internets	10
INFO 3003	Human-Computer Interaction	10
Select one elective		10
	Credit Points	40
Spring session		
COMP 2015	Programming Techniques	10
INFS 3017	Web Systems Development	10
From Spring 2024 students are advised to select COMP 3036		
COMP 3036	Full Stack Development	
COMP 3020	Social Web Analytics	10
Select one elective		10
	Credit Points	40
Year 3		
Autumn session		
INFO 3008	Professional Development	10
COMP 3015	Operating Systems Programming	10
Select two electives		20
	Credit Points	40
Spring session		
COMP 3018	Professional Experience	10
Select three electives		30
	Credit Points	40
	Total Credit Points	160

Replaced Subject

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

INFS 3017 Web Systems Development, replaced by COMP 3036 Full Stack Development

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/2023-2024/majors-minors/cyber-security-major/>)

Entertainment Computing, Major (0145) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/entertainment-computing-major/>)

Health Informatics

Mathematics, Major (0059) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/mathematics-major/>)

Mobile Computing, Major (0146) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/mobile-computing-major/>)

Networking, Major (0040) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/networking-major/>)

Minors

Campbelltown, Parramatta and Penrith Campuses

Astroinformatics, Minor (0096) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/astroinformatics-minor/>)

Cloud Computing, Minor (0128) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/cloud-computing-minor/>)

Entertainment Computing, Minor (0145) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/entertainment-computing-minor/>)

Health Informatics, Minor (0037) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/health-informatics-minor/>)

IT Support, Minor (0205) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/it-support-minor/>)

Mathematics, Minor (0059) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/mathematics-minor/>)

Mobile Computing, Minor (0146) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/mobile-computing-minor/>)

Networking, Minor (0040) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/networking-minor/>)

Social Media Analytics, Minor (0147) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/social-media-analytics-minor/>)

Statistics, Minor (0148) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/statistics-minor/>)

Systems Security, Minor (0150) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/systems-security-minor/>)

Web Application Development (for Computing Students), Minor (0151) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/web-application-development-for-computing-students-minor/>)

Replaced Major

The major listed below counts towards completion of this program for students who began studying this major prior to 2019.

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

Recommended Sequence

Qualification for this award requires the successful completion of 260 credit points which include the subjects listed in the recommended sequence below.

Western Sydney University The College Subjects

Nirimba and Parramatta City (George Street) Campus

Course	Title	Credit Points
Trimester 1		
GEDU 0010	Tertiary Study Skills in Information and Communications Technology (WSTC Prep)	0
COMP 0003	Programming Design (WSTC Prep)	5
MATH 0008	Mathematics 2 (WSTC Prep)	10
COMM 1027	Principles of Professional Communication 1 (WSTC)	10
INFS 1003	Information Systems in Context (WSTC)	10
Credit Points		35
Trimester 2		
INFS 1007	Systems Analysis and Design (WSTC)	10
MATH 0028	Statistics for Academic Purposes (WSTC Prep)	5
COMP 1006	Programming Fundamentals (WSTC)	10
INFS 2003	Database Design and Development (WSTC)	10
Credit Points		35
Trimester 3		
MATH 2013	Object Oriented Analysis (WSTC)	10
COMP 2006	Computer Networking (WSTC)	10
MATH 1029	Statistical Decision Making (WSTC)	10
Credit Points		30
Total Credit Points		100

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

Western Sydney University Subjects

For program advice during your second and subsequent years of study, please use the contact listed for the Bachelor of Information and Communications Technology.

Bachelor of Information and Communications Technology (<http://handbook.westernsydney.edu.au/hbook/course.aspx?course=3639.4>)

Campbelltown, Parramatta (Victoria Road) and Penrith Campus

Course	Title	Credit Points
Year 2		
Autumn session		
COMP 2020	Technologies for Web Applications	10
COMP 3007	Computer Networks and Internets	10
INFO 3003	Human-Computer Interaction	10
Select one elective		10
Credit Points		40
Spring session		
COMP 2015	Programming Techniques	10

INFS 3017	Web Systems Development	10	Mobile Computing, Minor (0146) (https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/mobile-computing-minor/)
From Spring 2024 students are advised to select COMP 3036			
COMP 3036	Full Stack Development	10	Networking, Minor (0040) (https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/networking-minor/)
COMP 3020	Social Web Analytics	10	Social Media Analytics, Minor (0147) (https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/social-media-analytics-minor/)
Select one elective		10	Statistics, Minor (0148) (https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/statistics-minor/)
	Credit Points	40	Systems Security, Minor (0150) (https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/systems-security-minor/)
Year 3			Web Application Development (for Computing Students), Minor (0151) (https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/web-application-development-for-computing-students-minor/)
Autumn session			
INFO 3008	Professional Development	10	
COMP 3015	Operating Systems Programming	10	
Select two electives		20	
	Credit Points	40	
Spring session			
COMP 3018	Professional Experience	10	
Select three electives		30	
	Credit Points	40	
	Total Credit Points	160	

Replaced Subject

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Elective Majors and Minors

Please note: majors and minors are optional.

Majors

Campbelltown, Parramatta and Penrith Campuses

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