

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 is suspended from Term 1, 2025, no new students will be admitted from this session.

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/2024-2025/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/2024-2025/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 ¹ ² | Full Time | Internal | See above |

¹ Prior to Term 2 2025, students will study at WSU The College Nirimba or Parramatta campus in their first year of study. From Term 2 2025, students will study at Penrith 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/2024-2025/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 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/2024-2025/majors-minors/cyber-security-major/>)

Entertainment Computing, Major (0145) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/entertainment-computing-major/>)

Health Informatics, Major (0037) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/health-informatics-major/>)

Mathematics, Major (0059) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/mathematics-major/>)

Mobile Computing, Major (0146) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/mobile-computing-major/>)

Networking, Major (0040) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/networking-major/>)

Minors

Campbelltown, Parramatta and Penrith Campuses

Astroinformatics, Minor (0096) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/astroinformatics-minor/>)

Cloud Computing, Minor (0128) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/cloud-computing-minor/>)

Entertainment Computing, Minor (0145) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/entertainment-computing-minor/>)

Health Informatics, Minor (0037) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/health-informatics-minor/>)

IT Support, Minor (0205) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/it-support-minor/>)

Mathematics, Minor (0059) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/mathematics-minor/>)

Mobile Computing, Minor (0146) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/mobile-computing-minor/>)

Networking, Minor (0040) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/networking-minor/>)

Social Media Analytics, Minor (0147) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/social-media-analytics-minor/>)

Statistics, Minor (0148) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/statistics-minor/>)

Systems Security, Minor (0150) (<https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/systems-security-minor/>)

Web Application Development (for Computing Students), Minor (0151) (<https://hbook.westernsydney.edu.au/archives/2024-2025/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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Western Sydney University Subjects

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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 | Astroinformatics, Minor (0096) (https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/astroinformatics-minor/) |
|---|-----------------------------------|---------------|--|
| Year 2 | | | |
| Autumn session | | | |
| COMP 2020 | Technologies for Web Applications | 10 | Cloud Computing, Minor (0128) (https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/cloud-computing-minor/) |
| COMP 3007 | Computer Networks and Internets | 10 | Entertainment Computing, Minor (0145) (https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/entertainment-computing-minor/) |
| INFO 3003 | Human-Computer Interaction | 10 | Health Informatics, Minor (0037) (https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/health-informatics-minor/) |
| Select one elective | | 10 | IT Support, Minor (0205) (https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/it-support-minor/) |
| Credit Points | | 40 | Mathematics, Minor (0059) (https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/mathematics-minor/) |
| Spring session | | | |
| COMP 2015 | Programming Techniques | 10 | Mobile Computing, Minor (0146) (https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/mobile-computing-minor/) |
| INFS 3017 | Web Systems Development | 10 | Networking, Minor (0040) (https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/networking-minor/) |
| From Spring 2024 students are advised to select COMP 3036 | | | Social Media Analytics, Minor (0147) (https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/social-media-analytics-minor/) |
| COMP 3036 | Full Stack Development | | Statistics, Minor (0148) (https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/statistics-minor/) |
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