

BACHELOR OF COMPUTER SCIENCE (ADVANCED) (3634)

Approved Abbreviation: BCompSc(Adv)

Western Sydney University Program Code: 3634

AQF Level: 7

CRICOS Code: 061245G

This program applies to students who commenced in 2017 or later.

This program is an advanced version of Bachelor of Computer Science. It provides students with a thorough and in-depth technical understanding of modern decentralised computer systems. This understanding includes how these computer systems are put together, how they work and what are the principles that govern them. Based on this solid foundation, students then have the opportunity to further learn the practical skills needed to design, develop and integrate the decentralised computer systems required by today's large organisations. This program is a three year program with distinct majors which allow students to specialise in different applications of computer science and computer systems. Some of the majors are: Cyber Security, Networked Systems, Cloud Computing, Systems Programming, Artificial Intelligence and others.

Students in the Bachelor of Computer Science (Advanced) will follow the same study program that is set out for the Bachelor of Computer Science. However, each student in this program will have an academic mentor and the student will also participate in additional compulsory activities including research projects. To maintain their enrolment in the Bachelor of Computer Science (Advanced) students must maintain an overall above 5 Grade Point Average, otherwise they will be transferred to the standard 3506 – Bachelor of Computer Science program. At enrolment students will be required to sign a declaration acknowledging the need to maintain a grade-point average (GPA) of 5.0 or more.

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
Parramatta Campus - Victoria Road	Full Time	Internal	See above
Penrith Campus	Full Time	Internal	See above

Accreditation

The Bachelor of Computer Science currently is accredited by Australian Computer Society at the professional level.

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: 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

In addition to the subjects outlined in the program structure for Bachelor of Computer Science (<https://hbook.westernsydney.edu.au/archives/2022-2023/programs/bachelor-computer-science/>), students in the advanced program must also complete the following three subjects.

Students must enrol in both 1H and 2H sessions.

Recommended Sequence

Course	Title	Credit Points
Year 1		
1H session		
COMP 1002	Advanced Computer Science Activities 1	0
Credit Points		0
2H session		
COMP 1002	Advanced Computer Science Activities 1	0
Credit Points		0
Year 2		
1H session		
COMP 2001	Advanced Computer Science Activities 2	0
Credit Points		0
2H session		
COMP 2001	Advanced Computer Science Activities 2	0
Credit Points		0
Year 3		
1H session		
COMP 3001	Advanced Computer Science Activities 3	0
Credit Points		0
2H session		
COMP 3001	Advanced Computer Science Activities 3	0
Credit Points		0
Total Credit Points		0

Minor Elective Spaces

Students may select their electives to be used toward obtaining an additional approved minor in Applied Leadership or Critical Thinking.

Applied Leadership, Minor

Critical Thinking, Minor (<https://hbook.westernsydney.edu.au/archives/2022-2023/majors-minors/critical-thinking-minor/>)