BACHELOR OF COMPUTER SCIENCE (3506)

Approved Abbreviation: BCompSc

Western Sydney University Program Code: 3506

AQF Level: 7

CRICOS Code: 041105G

This program applies to students who commenced in 2022 or later.

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

For Commencement Year 2019 to 2021 please refer to: 3506.9 - Bachelor of Computer Science (http:// handbook.westernsydney.edu.au/hbook/course.aspx?course=3506.9)

For Commencement Year 2014 to 2016 please refer to: 3506.7 - Bachelor of Computer Science (http://handbook.westernsydney.edu.au/hbook/course.aspx?course=3506.7)

The Bachelor of Computer Science provides an in-depth technical understanding of computer software systems, underpinned by theoretical foundations and practical techniques. The program provides a solid foundation for computer science study in computer theory, software design, development, and applications. It provides you with the knowledge and skills to develop effective and innovative solutions to problems. A range of specialised majors are offered in Cyber Security, Artificial Intelligence, Systems Programming, Networked Systems, Technology Entrepreneurship and Cloud Computing. Students work on real world projects and complete an industry experience project giving them an edge to access excellent career opportunities as programmers, system or software developers, or Al engineers.

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
Surabaya Campus Indonesia	Full Time	Internal	See above

Accreditation

The Bachelor of Computer Science currently is accredited with the 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.

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://westernsydnev.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.

This sequence below applies to students who commenced in 2023 or earlier. If you commenced in 2024 or later please refer to the Sequence 2024 tab for details.

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

Recommended Sequence 2022-2023 Full-time start-year intake

Course	Title	Credit Points
Year 1		
Autumn session		
MATH 1028	Statistical Decision Making	10
COMP 1005	Programming Fundamentals	10
COMM 1026	Principles of Professional Communication 1	10

INFO 1003 replaces COMM 1026 from Autumn 2023

Spring session Cedit Points 40 both P 2019 Systams Programming 10 both P 2014 CoMP 2019 both Structures and Algorithms 10 both P 2014 10 both P 2014 both Structures and Algorithms 10 both P 2019 both Str	MATH 1006	Discrete Mathematics	10	Autumn session		
COMMP 2014 Object Organization 1 DI NFO 3008 Professional Development 1 DI COMP 2014 Object Organization 1 DI 2 Cedit Points 40 COMP 2014 Cedit Points 40 Spring seasion 7 Cedit Points 40 Vear 2 Cedit Points 10 Spring seasion 10 CMP 2019 Systems Programming 10 CMP 2019 Systems Programming 10 CMP 2019 Systems Structures and Algorithms 10 CMP 2009 Distributed Systems and Programming 10 CMP 2009 Distributed Systems and Programming 10 NIFS 3003 Artificial Intelligence 10 Methods and Algorithms 40 CMP 3009 Distributed Systems and Programming 10 CMP 3009 Distributed Systems and Programming 10 CMP 3008 Professional Experience 40 CMP 3008		Credit Points	40	COMP 2019	Systems Programming 1	10
COMP 2014 Object Oriented Programming 10 Select one elective Credit Points 40 COMP 2004 Computer Networking 10 Year 3 Fredit Points 40 CoMP 2004 Credit Points 40 Normal Software Engineering 10 COMP 2009 Systems Programming 1 10 INFS 3008 Formal Software Engineering 10 COMP 2009 Data Structures and Algorithms 10 INFS 3008 Autimal Systems and Programming 10 Select two electives Credit Points 40 Autuma session 10 INFS 3006 Information Security 10 Select three electives 30 NINF 3006 Information Security 10 Select three electives 30 NINF 3006 Information Security 10 Select three electives 30 Vear 3 Credit Points 40 Autuma session 40 NIFO 3006 Professional Development 10 Autuma session Autuma session NIFO 3008 Professional Experience 10 Autuma session <td>Spring session</td> <td></td> <td></td> <td>COMP 2009</td> <td>Data Structures and Algorithms</td> <td>10</td>	Spring session			COMP 2009	Data Structures and Algorithms	10
MIPS 2011 Database Deginar Development 100 10	COMP 2008	Computer Organisation	10	INFO 3008	Professional Development	10
MIST 2001	COMP 2014		10	Select one elective		10
Vear 2 (Autumn session	INFS 2001		10		Credit Points	40
Variable Season	COMP 2004	Computer Networking	10	Year 3		
Autumn session Systems Programming 1 100 (OMP 2019) Systems Programming 1 100 (OMP 2009) Olar Structures and Algorithms 101 (Bigs 2008) CoMP 2009 (Dark Structures and Algorithms 101 (Bigs 2008) Artificial Intelligence (Profits 1008) 100 (Profit Points 1008) 400 (Profit Points 1008		Credit Points	40	Spring session		
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Spring session Artificial Intelligence 10 CoMP 3008 Professional Experience 30 INFS 3003 Information Security 10 Select three electives Cerdit Points 40 Select non elective 70dit Points 40 Cerdeit Points 240 Year 3 Course Title Cerdit Points 10 Select three electives 6 10 Course Title Cerdit Points 10 Select three electives 6 10 Course Title Cerdit Points 10 Select three electives 6 10 Cerdit Points 40 Marth 1028 Statistical Decision Making 10 Select two electives 6 Cerdit Points 20 Marth 1028 Statistical Decision Making 10 Select two electives 7 (adit Points 20 Professional Experience 10 Professional Experience 10 Professional Communication 10 Professional Communication 10 Professional Communication 10 Professional Communication 10 Profe	Select two electives		20		Credit Points	40
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		Credit Points	40		Credit Points	20

Year 3 **Autumn session**

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COMP 3018	Professional Experience	10
Select three elec	ctives	30
	Credit Points	40
	Total Credit Points	240

Suggested Elective Subjects Tiel a

Subject		edit ints
COMP 3003	Cloud Computing Architecture	10
COMP 3006	Computer Graphics	10
COMP 3007	Computer Networks and Internets	10
INFO 3002	Ethical Hacking Principles and Practice	10
INFO 3015	Internet of Things and Smart Environments	10
COMP 3012	Introduction to Cloud Computing	10
MATH 2009	Introduction to Data Science	10
	H 2009 Introduction to Data Science is replaced by duction to Data Science	
COMP 2025	Introduction to Data Science	10
COMP 3013	Mobile Applications Development	10
INFO 3007	Network Security	10
COMP 3014	Networked Systems Design	10
COMP 3015	Operating Systems Programming	10
MATH 3007	Predictive Modelling	10
From Spring 202 COMP 3032 Mac	2 MATH 3007 Predictive Modelling is replaced by hine Learning	
COMP 3032	Machine Learning	10
COMP 3033	Quantum Computing and Communication	10
COMP 3027	Robotic Programming	10
COMP 3020	Social Web Analytics	10
COMP 2020	Technologies for Web Applications	10
MATH 2014	Visual Analytics	10
From 2022 MATH Visual Analytics	H 2014 Visual Analytics is replaced by COMP 2026	
COMP 2026	Visual Analytics	10
INFS 3017	Web Systems Development	10
COMP 3025	Wireless and Mobile Networks	10

Majors

The majors listed below have been designed specifically for this program and are recommended for Bachelor of Computer Science students.

Artificial Intelligence, Major (0031) (https://

hbook.westernsydney.edu.au/majors-minors/artificial-intelligencemajor/)

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

Networked Systems, Major (0065) (https://

hbook.westernsydney.edu.au/majors-minors/networked-systemsmajor/)

Systems Programming, Major (0064) (https://

hbook.westernsydney.edu.au/majors-minors/systems-programmingmajor/)

Technology Entrepreneurship, Major (0261) (https:// hbook.westernsydney.edu.au/majors-minors/technologyentrepreneurship-major/)

Minor

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

Note: students may use some of their elective space to complete a Major or the Minor

Minor elective spaces

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

Global Sustainability Minor (https://hbook.westernsydney.edu.au/ majors-minors/global-sustainability-minor/)

Indigenous Australian Studies Minor (https://

hbook.westernsydney.edu.au/majors-minors/indigenous-australianstudies-minor/)

Western Sydney University also offers the following innovative transdisciplinary Challenge Minors (https://

www.westernsydney.edu.au/educational_partnerships_and_quality/ home/challenge_minors/) which we encourage those students who have elective space to consider.

Equitable Technologies (https://hbook.westernsydney.edu.au/majorsminors/equitable-technologies-minor/)

Urban Evolution (https://hbook.westernsydney.edu.au/majors-minors/ urban-evolution-minor/)

Migration and Global Change (https://hbook.westernsydney.edu.au/ majors-minors/migration-global-change-minor/)

Personal Innovation (https://hbook.westernsydney.edu.au/majorsminors/personal-innovation-minor/)

Innovating, Creating and Problem Solving (https://

hbook.westernsydney.edu.au/majors-minors/innovating-creatingproblem-solving-minor/)

Eco-Socially Conscious Design and Manufacturing (https://

hbook.westernsydney.edu.au/majors-minors/eco-socially-consciousdesign-manufacturing-minor/)

Water for Life (https://hbook.westernsydney.edu.au/majors-minors/ water-life-minor/)

Climate Justice (https://hbook.westernsydney.edu.au/majors-minors/ climate-justice-minor/)

Creative and Visual Communication (https://

hbook.westernsydney.edu.au/majors-minors/creative-visualcommunication-minor/)

Global Workplaces (https://hbook.westernsydney.edu.au/majorsminors/global-workplaces-minor/)

Innovating For Humans (https://hbook.westernsydney.edu.au/majorsminors/innovating-humans-minor/)

Creative Living for Cultural Wellbeing (https://

hbook.westernsydney.edu.au/majors-minors/creative-living-culturalwellbeing-minor-/)

Ideate.Strategise.Innovate. (https://hbook.westernsydney.edu.au/ majors-minors/ideate-strategise-innovate-minor/)

Humanising Data (https://hbook.westernsydney.edu.au/majorsminors/humanising-data-minor/)

For more information, visit the Challenge Minor (https:// www.westernsydney.edu.au/educational_partnerships_and_quality/ home/challenge_minors/) website.

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

Students can apply for an elective minor via Western Now.

WesternNow (https://www.westernsydney.edu.au/westernnow/)

This sequence below applies to students who commenced in 2024. If you commenced prior to 2024 please refer to the Sequence 2022-23 tab for details.

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

> Credit **Points**

Recommended Sequence 2024

Full-time start-year intake

Course

Year 1		
Autumn session		
MATH 1028	Statistical Decision Making	10
COMP 1005	Programming Fundamentals	10
INFO 1003	Professional Practice, Communication and Ethics	10
MATH 1006	Discrete Mathematics	10
	Credit Points	40
Spring session		
COMP 2008	Computer Organisation	10
COMP 2014	Object Oriented Programming	10
INFS 2001	Database Design and Development	10
COMP 2004	Computer Networking	10
	Credit Points	40
Year 2		
Autumn session		
COMP 2019	Systems Programming 1	10
COMP 2009	Data Structures and Algorithms	10
Select two electives	or major or minor subjects	20
	Credit Points	40
Spring session		
INFS 3003	Artificial Intelligence	10
INFO 3006	Information Security	10
COMP 3009	Distributed Systems and Programming	10
Select one elective o	r major or minor subject	10
	Credit Points	40
Year 3		
Autumn session		
INFO 3019	Project Management	10
Select three electives	s or major or minor subjects	30
	Credit Points	40
Spring session		
COMP 3018	Professional Experience	10
INFS 3008	Formal Software Engineering	10
Select two electives	or major or minor subjects	20
	Credit Points	40
	Total Credit Points	240
Full-time mid-ye	ear intake	
Course	Title	Credit
		Points
Year 1		
Spring session		
COMP 1005	Programming Fundamentals	10
INFS 2001	Database Design and Development	10

Course	Title	Credit
Accelerated Pa	thway - Summer Sessions	
	Total Credit Points	240
	Credit Points	40
Select three electiv	res or major or minor subjects	30
COMP 3018	Professional Experience	10
Autumn session		
	Credit Points	40
INFS 3003	Artificial Intelligence	10
COMP 3009	Distributed Systems and Programming	10
INFS 3008	Formal Software Engineering	10
INFO 3006	Information Security	10
Spring session		
Year 3		
	Credit Points	40
0 00.3	or major or minor subject	10
INFO 3019	Project Management	10
COMP 2009	Data Structures and Algorithms	10
COMP 2019	Systems Programming 1	10
Autumn session	Credit Foliits	40
Jelect two electives	Credit Points	40
	s or major or minor subjects	20
COMP 2014	Object Oriented Programming	10
COMP 2008	Computer Organisation	10
Spring session		
Year 2	Credit Points	40
Select one elective	or major or minor subject Credit Points	10
MATH 1006	Discrete Mathematics	10
	and Ethics	
MATH 1028 INFO 1003	Statistical Decision Making Professional Practice, Communication	10 10
Autumn session	Obsticate al Desiries Melines	10
	Credit Points	40
Select one elective	or major or minor subject	10
COMP 2004	Computer Networking	10

Course	Title	Credit Points
Year 1		
Autumn session		
MATH 1028	Statistical Decision Making	10
COMP 1005	Programming Fundamentals	10
INFO 1003	Professional Practice, Communication and Ethics	10
MATH 1006	Discrete Mathematics	10
	Credit Points	40
Spring session		
COMP 2008	Computer Organisation	10
COMP 2014	Object Oriented Programming	10
INFS 2001	Database Design and Development	10
COMP 2004	Computer Networking	10
	Credit Points	40
Summer session		
Select two electives	s or major or minor	20
	Credit Points	20

	Total Credit Points	240
	Credit Points	40
Select three electi	ves or major or minor subjects	30
COMP 3018	Professional Experience	10
Autumn session		
Year 3		
	Credit Points	20
Select one elective	e or major or minor subject	10
INFO 3019	Project Management	10
Summer session		
	Credit Points	40
INFS 3003	Artificial Intelligence	10
COMP 3009	Distributed Systems and Programming	10
INFO 3006	Information Security	10
INFS 3008	Formal Software Engineering	10
Spring session		
	Credit Points	40
Select two elective	es or major or minor subjects	20
COMP 2019	Systems Programming 1	10
COMP 2009	Data Structures and Algorithms	10
Autumn session		

Subject	Title	Credit Points
COMP 3003	Cloud Computing Architecture	10
COMP 3006	Computer Graphics	10
COMP 3007	Computer Networks and Internets	10
INFO 3002	Ethical Hacking Principles and Practice	10
INFO 3015	Internet of Things and Smart Environments	10
COMP 3012	Introduction to Cloud Computing	10
COMP 2025	Introduction to Data Science	10
COMP 3013	Mobile Applications Development	10
INFO 3007	Network Security	10
COMP 3014	Networked Systems Design	10
COMP 3015	Operating Systems Programming	10
COMP 3032	Machine Learning	10
COMP 3033	Quantum Computing and Communication	10
COMP 3027	Robotic Programming	10
COMP 3020	Social Web Analytics	10
COMP 2026	Visual Analytics	10
COMP 3025	Wireless and Mobile Networks	10

Surabaya Campus Indonesia

Course	Title	Points
Year 1		
Semester 1		
COMP 1005	Programming Fundamentals	10
INFS 2001	Database Design and Development	10
COMP 2004	Computer Networking	10
TBA	Character Building: Agama	5
TBA	Character Building: Kewarganegaraan	5
Semester 1		
MATH 1028	Statistical Decision Making	10
MATH 1028	Statistical Decision Making	10

	Total Credit Points	240
	Credit Points	80
COMP 2025	Introduction to Data Science	10
COMP 3027	Robotic Programming	10
COMP 2026	Visual Analytics	10
COMP 3018	Professional Experience	10
Semester 6		
INFS 3003	Artificial Intelligence	10
COMP 3009	Distributed Systems and Programming	10
INFS 3008	Formal Software Engineering	10
INFO 3006	Information Security	10
Semester 5		
Year 3		
	Credit Points	80
TBA	Character Building: Pancasila	5
TBA	Bahasa Indonesia	5
COMP 3006	Computer Graphics	10
COMP 2009	Data Structures and Algorithms	10
COMP 2019	Systems Programming 1	10
Semester 4	o, o.oo aao o managomon	. •
COMP 3023	Systems and Network Management	10
INFO 3019	Project Management	10
COMP 2014	Object Oriented Programming	10
Semester 3 COMP 2008	Computer Organisation	10
Year 2		
	Credit Points	80
COMP 3012	Introduction to Cloud Computing	10
MATH 1006	Discrete Mathematics	10
INFO 1003	and Ethics	10
INFO 1003	Professional Practice, Communication	10

Majors

The majors listed below have been designed specifically for this program and are recommended for Bachelor of Computer Science students.

Artificial Intelligence, Major (0031) (https://

hbook.westernsydney.edu.au/majors-minors/artificial-intelligence-major/)

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

Networked Systems, Major (0065) (https://

hbook.westernsydney.edu.au/majors-minors/networked-systems-major/)

Systems Programming, Major (0064) (https://

hbook.westernsydney.edu.au/majors-minors/systems-programming-major/)

Technology Entrepreneurship, Major (0261) (https://hbook.westernsydney.edu.au/majors-minors/technology-entrepreneurship-major/)

Minor

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

Note: students may use some of their elective space to complete a Major or the Minor

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/maiors-minors/global-sustainability-minor/)

Indigenous Australian Studies Major (https://

hbook.westernsydney.edu.au/majors-minors/indigenous-australianstudies-major/)

Indigenous Australian Studies Minor (https://

hbook.westernsydney.edu.au/majors-minors/indigenous-australianstudies-minor/)

Western Sydney University also offers the following innovative transdisciplinary Challenge Minors (https://www.westernsydney.edu.au/educational_partnerships_and_quality/home/challenge_minors/) which we encourage those students who have elective space to consider.

Equitable Technologies (https://hbook.westernsydney.edu.au/majors-minors/equitable-technologies-minor/)

Urban Evolution (https://hbook.westernsydney.edu.au/majors-minors/urban-evolution-minor/)

Migration and Global Change (https://hbook.westernsydney.edu.au/majors-minors/migration-global-change-minor/)

Personal Innovation (https://hbook.westernsydney.edu.au/majors-minors/personal-innovation-minor/)

Innovating, Creating and Problem Solving (https://

hbook.westernsydney.edu.au/majors-minors/innovating-creating-problem-solving-minor/)

Eco-Socially Conscious Design and Manufacturing (https://

hbook.westernsydney.edu.au/majors-minors/eco-socially-conscious-design-manufacturing-minor/)

Water for Life (https://hbook.westernsydney.edu.au/majors-minors/water-life-minor/)

Climate Justice (https://hbook.westernsydney.edu.au/majors-minors/climate-justice-minor/)

Creative and Visual Communication (https://

hbook.westernsydney.edu.au/majors-minors/creative-visual-communication-minor/)

Global Workplaces (https://hbook.westernsydney.edu.au/majors-minors/global-workplaces-minor/)

Innovating For Humans (https://hbook.westernsydney.edu.au/majors-minors/innovating-humans-minor/)

Creative Living for Cultural Wellbeing (https://

hbook.westernsydney.edu.au/majors-minors/creative-living-cultural-wellbeing-minor-/)

Ideate. Strategise. Innovate. (https://hbook.westernsydney.edu.au/majors-minors/ideate-strategise-innovate-minor/)

Humanising Data (https://hbook.westernsydney.edu.au/majors-minors/humanising-data-minor/)

For more information, visit the Challenge Minor (https://www.westernsydney.edu.au/educational_partnerships_and_quality/home/challenge_minors/) website.

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

Students can apply for an elective major or minor via Western Now.

WesternNow (https://www.westernsydney.edu.au/westernnow/)