BACHELOR OF INFORMATION SYSTEMS ADVANCED (3688)

Approved Abbreviation: BInfoSysAdv
Western Sydney University Program Code: 3688
AQF Level: 7

CRICOS Code: 079493K

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.

Commencement 2014 – 3688.1 Bachelor of Information Systems Advanced

The Bachelor of Information Systems Advanced degree aims to provide students with an in-depth understanding of advanced information technology concepts and their strategic application in complex business environments. The program's objectives are to cultivate specialised expertise in curriculum areas and emerging technologies such as big data analytics, cloud computing, artificial intelligence, and cybersecurity. Students will develop critical thinking, problem-solving, and research skills, enabling them to address intricate IT challenges and drive innovation. Through a rigorous curriculum, hands-on projects, and industry collaboration, graduates will be well-equipped to pursue advanced careers in IT management, technology consulting, data science, and business analysis, contributing to cutting-edge advancements in information systems.

Bachelor of Information Systems Brochure (https://www.westernsydney.edu.au/__data/assets/pdf_file/0010/883243/SCEM0092_InfoSys_2016_Brochure_120dpi.pdf)

Study Tour 2016 Information Systems Student Engagements (https://westernsydney.edu.au/__data/assets/pdf_file/0008/1081898/Brochure_-_Final_Edit_-_v11_-_Ana.pdf)

Study Mode
Three years full-time.

Program Advice

CDMS@westernsydney.edu.au (https://directory.westernsydney.edu.au/old/srchprocess_handbook.php?a_value=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

Accreditation

The Bachelor of Information Systems Advanced is accredited with the Australian Computer Society (ACS) at 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 2025

Students within the advanced degree are required to complete six advanced subjects.

Compulsory Advanced Subjects

Subject	Title	Credit Points
INFS 1015	Systems Analysis and Design (Advanced)	10
COMP 2005	Computer Networking (Advanced)	10
INFS 2002	Database Design and Development (Advanced)	10
INFO 3004	Human-Computer Interaction (Advanced)	10
INFS 3007	Emerging Trends in Information Systems (Advanced)	10
COMP 3019	Professional Experience (Advanced)	10
Total Credit Points		**60**

Advanced degrees are available with Business and Law.

Bachelor of Information Systems Advanced/Bachelor of Business (https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-information-systems-advanced-bachelor-business/)

Bachelor of Information Systems Advanced/Bachelor of Law (https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-information-systems-advanced-bachelor-laws/)

Recommended Sequence

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

Full-time start-year intake

Course	Title	Credit Points
Year 1		
Autumn session		
COMP 1005	Programming Fundamentals	10
INFO 1003	Professional Practice, Communication and Ethics	10
BUSM 1042	Introduction to Business Analytics	10
ACCT 1005	Accounting in Context	10
	Credit Points	**40**
Spring session		
COMP 2005	Computer Networking (Advanced)	10
INFS 2002	Database Design and Development (Advanced)	10
INFS 1016	Digital Transformation	10
Select one elective or Major/Minor subject		10
	Credit Points	**40**
Year 2		
Autumn session		
INFS 2012	Digital Technologies and Security	10
INFO 3004	Human-Computer Interaction (Advanced)	10
INFS 2014	Systems Analysis and Design (Advanced)	10
Select one elective or Major/Minor subject		10
	Credit Points	**40**
Spring session		
INFO 3019	Project Management	10
INFS 3024	Enterprise Architecture and Design Thinking	10
Select two electives or Major/Minor subjects		20
	Credit Points	**40**

Course	Title	Credit Points
Year 3		
Autumn session		
INFS 3023	Advanced Systems Development Methodologies	10
INFS 3007	Emerging Trends in Information Systems (Advanced)	10
Select two electives or Major subjects		20
	Credit Points	**40**
Spring session		
COMP 3019	Professional Experience (Advanced)	10
INFS 3027	Social Computing and Systems Thinking	10
Select two electives or Major/Minor subjects		20
	Credit Points	**40**
	Total Credit Points	**240**

Full-time mid-year intake

Course	Title	Credit Points
Year 1		
Spring session		
COMP 1005	Programming Fundamentals	10
ACCT 1005	Accounting in Context	10
INFS 2002	Database Design and Development (Advanced)	10
INFS 1016	Digital Transformation	10
	Credit Points	**40**
Autumn session		
INFO 1003	Professional Practice, Communication and Ethics	10
BUSM 1042	Introduction to Business Analytics	10
INFS 2012	Digital Technologies and Security	10
INFS 2014	Systems Analysis and Design (Advanced)	10
	Credit Points	**40**
Year 2		
Spring session		
COMP 2005	Computer Networking (Advanced)	10
INFO 3019	Project Management	10
Select two electives or Major/Minor subjects		20
	Credit Points	**40**
Autumn session		
INFS 3023	Advanced Systems Development Methodologies	10
INFO 3004	Human-Computer Interaction (Advanced)	10
Select two electives or Major/Minor subjects		20
	Credit Points	**40**
Year 3		
Spring session		
INFS 3027	Social Computing and Systems Thinking	10
INFS 3024	Enterprise Architecture and Design Thinking	10
Select two electives or Major/Minor subjects		20
	Credit Points	**40**
Autumn session		
INFS 3007	Emerging Trends in Information Systems (Advanced)	10
COMP 3019	Professional Experience (Advanced)	10

Select two electives or Major/Minor subjects		20
Credit Points		**40**
Total Credit Points		**240**

Majors

Business Analytics, Testamur Major (T130) (https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/business-analytics-ug-testamur-major/)

Cybersecurity Management, Testamur Major (T153) (https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/cybersecurity-management-testamur-major-/)

Health Informatics, Testamur Major (T007) (https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/health-informatics-pg-testamur-major/)

Infonomics, Testamur Major (T158) (https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/infonomics-testamur-major/)

Network Management, Testamur Major (T159) (https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/network-management-testamur-major/)

User Experience, Testamur Major (T154) (https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/user-experience-testamur-major/)

Minors

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/)

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/)

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/majors-minors/global-sustainability-minor/)

Indigenous Australian Studies Major (https://hbook.westernsydney.edu.au/majors-minors/indigenous-australian-studies-major/)

Indigenous Australian Studies Minor (https://hbook.westernsydney.edu.au/majors-minors/indigenous-australian-studies-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/)

Program Structure 2022 - 2024

Students within the advanced degree are required to complete six advanced subjects.

Compulsory Advanced Subjects

Subject	Title	Credit Points
INFS 3007	Emerging Trends in Information Systems (Advanced)	10
COMP 3019	Professional Experience (Advanced)	10
INFS 1015	Systems Analysis and Design (Advanced)	10
Select three subjects of the following:		30
COMP 2005	Computer Networking (Advanced)	
INFS 2002	Database Design and Development (Advanced)	
INFO 3004	Human-Computer Interaction (Advanced)	
COMP 2016	Programming Techniques (Advanced)	
INFS 3018	Web Systems Development (Advanced)	
Total Credit Points		**60**

Advanced degrees are available with Business and Law.

Bachelor of Information Systems Advanced/Bachelor of Business (https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-information-systems-advanced-bachelor-business/)

Bachelor of Information Systems Advanced/Bachelor of Law (https://hbook.westernsydney.edu.au/archives/2024-2025/programs/bachelor-information-systems-advanced-bachelor-laws/)

Recommended Sequence 2022 - 2024

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

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	
Note: From Autumn 2024 COMM 1026 is replaced by COMM 1044		
COMM 1044	Professional Communication	10
INFS 1015	Systems Analysis and Design (Advanced)	
From Autumn 2025, Students are advised to select INFS 2014 Systems Analysis and Design (Advanced). Please contact the subject coordinator regarding the prerequisite requirements.		
INFS 2014	Systems Analysis and Design (Advanced)	10
INFS 1002	Information Systems in Context	10
	Credit Points	**40**
Spring session		
MATH 1030	Statistics for Business	10
Select one of the following:		10
COMP 2004	Computer Networking	
COMP 2005	Computer Networking (Advanced)	
Select one of the following:		10
INFS 2001	Database Design and Development	
INFS 2002	Database Design and Development (Advanced)	
Select one elective		10
	Credit Points	**40**
Year 2		
Autumn session		
COMP 2020	Technologies for Web Applications	10
Select one of the following:		10
INFO 3003	Human-Computer Interaction	
INFO 3004	Human-Computer Interaction (Advanced)	
Select two electives		20
	Credit Points	**40**
Spring session		
INFO 3001	Computer Security	10
COMP 2027	Cyber Security	10
From Autumn 2024 INFO 3001 is replaced by COMP 2027		
INFS 3012	Information Systems Deployment and Management	10
COMP 3013	Mobile Applications Development	10
Select one elective		10
	Credit Points	**50**
Year 3		
Autumn session		
INFO 3008	Professional Development	10

Course	Title	Credit Points
INFS 3006	Emerging Trends in Information Systems	10
Select two electives		20
	Credit Points	**40**
Spring session		
COMP 3019	Professional Experience (Advanced)	10
INFO 3011	Social Computing	10
Select two electives		20
	Credit Points	**40**
	Total Credit Points	**250**

Replaced Subjects

The subjects listed below count towards completion of this program for students who passed these subjects in 2023 or earlier.

INFO 3001 Computer Security

COMM 1026 Principles of Professional Communication 1

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

INFS 1015 Systems Analysis and Design (Advanced)

Full-time mid-year intake

Course	Title	Credit Points
Year 1		
Spring session		
INFS 1002	Information Systems in Context	10
MATH 1030	Statistics for Business	10
COMP 1005	Programming Fundamentals	10
Select one elective		10
	Credit Points	**40**
Autumn session		
COMM 1026	Principles of Professional Communication 1	
Note: From Autumn 2024 COMM 1026 is replaced by COMM 1044		
COMM 1044	Professional Communication	10
INFS 1015	Systems Analysis and Design (Advanced)	
From Autumn 2025, Students are advised to select INFS 2014 Systems Analysis and Design (Advanced). Please contact the subject coordinator regarding the prerequisite requirements.		
INFS 2014	Systems Analysis and Design (Advanced)	10
Select two electives		20
	Credit Points	**40**
Year 2		
Spring session		
INFO 3001	Computer Security	10
COMP 2027	Cyber Security	10
From Autumn 2024 INFO 3001 is replaced by COMP 2027		
INFS 3012	Information Systems Deployment and Management	10
Select one of the following:		10
INFS 2001	Database Design and Development	
INFS 2002	Database Design and Development (Advanced)	
Select one of the following:		10
COMP 2004	Computer Networking	

COMP 2005	Computer Networking (Advanced)	
	Credit Points	**50**
Autumn session		
COMP 2020	Technologies for Web Applications	10
Select one of the following:		10
INFO 3003	Human-Computer Interaction	
INFO 3004	Human-Computer Interaction (Advanced)	
Select two electives		20
	Credit Points	**40**
Year 3		
Spring session		
INFO 3011	Social Computing	10
COMP 3013	Mobile Applications Development	10
Select two electives		20
	Credit Points	**40**
Autumn session		
COMP 3019	Professional Experience (Advanced)	10
INFO 3008	Professional Development	10
INFS 3006	Emerging Trends in Information Systems	10
Select one elective		10
	Credit Points	**40**
	Total Credit Points	**250**

Replaced Subjects

The subjects listed below count towards completion of this program for students who passed these subjects in 2023 or earlier.

INFO 3001 Computer Security

COMM 1026 Principles of Professional Communication 1

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

INFS 1015 Systems Analysis and Design (Advanced)

Majors

All majors and minors available to program Bachelor of Information Systems are also available to those enrolled in program Bachelor of Information Systems Advanced.

Majors

Big Data, Major (0144) (https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/big-data-major/)

Business Analytics, Testamur Major (T130) (https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/business-analytics-ug-testamur-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

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/)

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/)

Systems Administration, Minor (0149) (https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/systems-administration-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/)

Elective Minors

Students in Advanced programs may use elective subjects toward obtaining an additional approved minor in Applied Leadership or Critical Thinking.

Applied Leadership, Minor

Critical Thinking, Minor (https://hbook.westernsydney.edu.au/archives/2024-2025/majors-minors/critical-thinking-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-australian-studies-minor/)

Sustainable Futures, Minor (https://hbook.westernsydney.edu.au/majors-minors/sustainable-futures-minor/#structuretext)

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 minor via Western Now.

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

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.

M3017, Interactive Analytics, Major (http://
handbook.westernsydney.edu.au/hbook/specialisation.aspx?
unitset=M3107.1), replaced by Interactive Analytics, Major in 2020
(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 2020