

# BACHELOR OF INFORMATION SYSTEMS ADVANCED (3688)

**Approved Abbreviation:** BIInfoSysAdv

**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

This degree focuses on computing and information technology in the context of business. In addition to the generic content described for Bachelor of Information Systems, this program utilises advanced activities, extension projects, research training and hands on work on real business projects.

During this program you will have a mentor who will support and guide you throughout the degree. This program will also link you with experienced academic staff and industry partners who will provide you with continuous training and supervision. In addition you will be invited to join research groups which will allow you to take part in large research projects.

Bachelor of Information Systems Brochure ([https://www.westernsydney.edu.au/\\_data/assets/pdf\\_file/0010/883243/SCEM0092\\_InfoSys\\_2016\\_Brochure\\_120dpi.pdf](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](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](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	Full Time	Internal	See above
Campus - Victoria Road			

## 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/](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

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

## Compulsory Advanced Subjects

Subject	Title	Credit Points		
INFS 3007	Emerging Trends in Information Systems (Advanced)	10	INFO 3003	Human-Computer Interaction
COMP 3019	Professional Experience (Advanced)	10	INFO 3004	Human-Computer Interaction (Advanced)
INFS 1015	Systems Analysis and Design (Advanced)	10	Select two electives	20
Select three subjects of the following:		30		
COMP 2005	Computer Networking (Advanced)		<b>Credit Points</b>	<b>40</b>
INFS 2002	Database Design and Development (Advanced)		<b>Spring session</b>	
INFO 3004	Human-Computer Interaction (Advanced)		INFO 3001	Computer Security
COMP 2016	Programming Techniques (Advanced)		COMP 2027	Cyber Security
INFS 3018	Web Systems Development (Advanced)		From Autumn 2024 INFO 3001 is replaced by COMP 2027	
<b>Total Credit Points</b>		<b>60</b>	INFS 3012	Information Systems Deployment and Management
Advanced degrees are available with Business and Law.			COMP 3013	Mobile Applications Development
Bachelor of Information Systems Advanced/Bachelor of Business ( <a href="https://hbook.westernsydney.edu.au/archives/2023-2024/programs/bachelor-information-systems-advanced-bachelor-business/">https://hbook.westernsydney.edu.au/archives/2023-2024/programs/bachelor-information-systems-advanced-bachelor-business/</a> )			Select one elective	10
Bachelor of Information Systems Advanced/Bachelor of Law ( <a href="https://hbook.westernsydney.edu.au/archives/2023-2024/programs/bachelor-information-systems-advanced-bachelor-laws/">https://hbook.westernsydney.edu.au/archives/2023-2024/programs/bachelor-information-systems-advanced-bachelor-laws/</a> )			<b>Credit Points</b>	<b>50</b>

## 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																																																																																																			
<b>Year 1</b>																																																																																																					
<b>Autumn session</b>																																																																																																					
COMP 1005	Programming Fundamentals	10	INFO 3001	Computer Security																																																																																																	
COMM 1026	Principles of Professional Communication 1		COMM 1026	Principles of Professional Communication 1																																																																																																	
Note: From Autumn 2024 COMM 1026 is replaced by COMM 1044		10	<b>Full-time mid-year intake</b>																																																																																																		
COMM 1044	Professional Communication		<b>Course</b>	<b>Title</b>																																																																																																	
INFS 1015	Systems Analysis and Design (Advanced)	10		<b>Credit Points</b>																																																																																																	
INFS 1002	Information Systems in Context	10	<b>Credit Points</b>	<b>40</b>	<b>Year 1</b>			<b>Spring session</b>			<b>Spring session</b>		MATH 1030	Statistics for Business	10	INFS 1002	Information Systems in Context	Select one of the following:		10	COMP 2004	Computer Networking		MATH 1030	Statistics for Business	COMP 2005	Computer Networking (Advanced)		COMP 1005	Programming Fundamentals	Select one of the following:		10	INFS 2001	Database Design and Development		Select one elective	10	INFS 2002	Database Design and Development (Advanced)		<b>Credit Points</b>	<b>40</b>	Select one elective		10	<b>Autumn session</b>		<b>Credit Points</b>	<b>40</b>	COMM 1026	Principles of Professional Communication 1	<b>Year 2</b>			Note: From Autumn 2024 COMM 1026 is replaced by COMM 1044	10	<b>Autumn session</b>			COMM 1044	Professional Communication	COMP 2020	Technologies for Web Applications	10	INFS 1015	Systems Analysis and Design (Advanced)	Select one of the following:		10	Select two electives	20	<b>Credit Points</b>	<b>40</b>	<b>Credit Points</b>	<b>40</b>	<b>Year 2</b>			<b>Year 2</b>		<b>Spring session</b>			<b>Spring session</b>		INFO 3001	Computer Security		INFO 3001	Computer Security	COMP 2027	Cyber Security		COMP 2027	Cyber Security	From Autumn 2024 INFO 3001 is replaced by COMP 2027				
<b>Credit Points</b>	<b>40</b>	<b>Year 1</b>																																																																																																			
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MATH 1030	Statistics for Business	10	INFS 1002	Information Systems in Context																																																																																																	
Select one of the following:		10	COMP 2004	Computer Networking		MATH 1030	Statistics for Business	COMP 2005	Computer Networking (Advanced)		COMP 1005	Programming Fundamentals	Select one of the following:		10	INFS 2001	Database Design and Development		Select one elective	10	INFS 2002	Database Design and Development (Advanced)		<b>Credit Points</b>	<b>40</b>	Select one elective		10	<b>Autumn session</b>		<b>Credit Points</b>	<b>40</b>	COMM 1026	Principles of Professional Communication 1	<b>Year 2</b>			Note: From Autumn 2024 COMM 1026 is replaced by COMM 1044	10	<b>Autumn session</b>			COMM 1044	Professional Communication	COMP 2020	Technologies for Web Applications	10	INFS 1015	Systems Analysis and Design (Advanced)	Select one of the following:		10	Select two electives	20	<b>Credit Points</b>	<b>40</b>	<b>Credit Points</b>	<b>40</b>	<b>Year 2</b>			<b>Year 2</b>		<b>Spring session</b>			<b>Spring session</b>		INFO 3001	Computer Security		INFO 3001	Computer Security	COMP 2027	Cyber Security		COMP 2027	Cyber Security	From Autumn 2024 INFO 3001 is replaced by COMP 2027																						
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Select one of the following:		10	INFS 2001	Database Design and Development		Select one elective	10	INFS 2002	Database Design and Development (Advanced)		<b>Credit Points</b>	<b>40</b>	Select one elective		10	<b>Autumn session</b>		<b>Credit Points</b>	<b>40</b>	COMM 1026	Principles of Professional Communication 1	<b>Year 2</b>			Note: From Autumn 2024 COMM 1026 is replaced by COMM 1044	10	<b>Autumn session</b>			COMM 1044	Professional Communication	COMP 2020	Technologies for Web Applications	10	INFS 1015	Systems Analysis and Design (Advanced)	Select one of the following:		10	Select two electives	20	<b>Credit Points</b>	<b>40</b>	<b>Credit Points</b>	<b>40</b>	<b>Year 2</b>			<b>Year 2</b>		<b>Spring session</b>			<b>Spring session</b>		INFO 3001	Computer Security		INFO 3001	Computer Security	COMP 2027	Cyber Security		COMP 2027	Cyber Security	From Autumn 2024 INFO 3001 is replaced by COMP 2027																																			
INFS 2001	Database Design and Development		Select one elective	10																																																																																																	
INFS 2002	Database Design and Development (Advanced)		<b>Credit Points</b>	<b>40</b>																																																																																																	
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From Autumn 2024 INFO 3001 is replaced by COMP 2027																																																																																																					

INFS 3012	Information Systems Deployment and Management	10	Mobile Computing, Major (0146) ( <a href="https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/mobile-computing-major/">https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/mobile-computing-major/</a> )
Select one of the following:		10	Networking, Major (0040) ( <a href="https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/networking-major/">https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/networking-major/</a> )
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)		
	<b>Credit Points</b>	<b>50</b>	
<b>Autumn session</b>			
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	
	<b>Credit Points</b>	<b>40</b>	
<b>Year 3</b>			
<b>Spring session</b>			
INFO 3011	Social Computing	10	
COMP 3013	Mobile Applications Development	10	
Select two electives		20	
	<b>Credit Points</b>	<b>40</b>	
<b>Autumn session</b>			
COMP 3019	Professional Experience (Advanced)	10	
INFO 3008	Professional Development	10	
INFS 3006	Emerging Trends in Information Systems	10	
Select one elective		10	
	<b>Credit Points</b>	<b>40</b>	
	<b>Total Credit Points</b>	<b>250</b>	

### 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

### 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/2023-2024/majors-minors/big-data-major/>)

Business Analytics, Testamur Major (T130) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/business-analytics-ug-testamur-major/>)

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

Health Informatics

Interactive Analytics, Major (0203) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/interactive-analytics-major/>)

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

### Minors

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/>)

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/>)

Systems Administration, Minor (0149) (<https://hbook.westernsydney.edu.au/archives/2023-2024/majors-minors/systems-administration-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/>)

### 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/2023-2024/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/>)

Western Sydney University also offers the following innovative transdisciplinary Challenge Minors ([https://www.westernsydney.edu.au/educational\\_partnerships\\_and\\_quality/home/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/](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