Bachelor of Information Technology

(Networking and Security)

May Information Sessions
Mawson Lakes campus: Wednesday 25 May
For more information and to register visit
unisa.edu.au/mayinfosessions

Open Day 2011
City West campus: Sunday 21 August
For more information visit
unisa.edu.au/openday

Festival of Innovation
Mawson Lakes campus: Sunday 25 September
For more information and to register visit
unisa.edu.au/innovation

unisa.edu.au/it

SATAC code	434891
UniSA program code	LBCP
CRICOS code (international students only)	067899J
ATAR (February 2011 cut-off)	60.50
Program length	3 years
Prerequisites	None
Assumed knowledge	None
Home campus	Mawson Lakes
Accepts Special Entry (STAT)	Yes
External study available	Yes*
Part-time study available	Yes
TAFE credit available	Yes
Honours study available	Yes
Program fees	Commonwealth supported
Program fees (international students only)	(A$) 22,750 per annum
Scholarships available	unisa.edu.au/scholarship

* Some courses are available in online/external mode, others are only offered internally.

Program overview

If you have a strong interest in networking and security, then this program is for you. It capitalises on UniSA's leadership in delivering a consistently high level of education in this domain for many years. The security of information systems has become a very important aspect of contemporary information technology. In this specialisation, you'll be exposed to the techniques and theory that support network infrastructures in small to large businesses, thus improving your career prospects. As part of the Bachelor of Information Technology (Networking and Security) program, you can continue to leverage from the experience of our highly qualified and experienced academic staff to graduate in this specialisation.

What will I study?

In first year, you'll study core concepts in information technology, establishing a solid foundation for more advanced coursework in subsequent years. At this point if you wish to change to another specialisation within the IT program, you will have the opportunity to do so without loss of credit.

In the final two years, you'll begin your focus on networking and security in such areas as network design, network implementation, intrusion detection, and security auditing, for example. You'll also acquire the skills to support a network roll-out and the maintenance of infrastructure, whilst gaining an understanding of networking topologies and networking devices, such as routers and firewalls. In particular, the networking courses prepare you for industry certification examinations in CISCO where you'll be in a position to not only graduate with a degree, but with this highly regarded industry certification, increasing your employment prospects. This program has a hands-on approach where you'll gain experience in our dedicated security and networking labs and also be involved in an industry based project in your final year.

What does it take?

This program will interest those who enjoy the practical side of information technology and have a flair for building business infrastructure in line with the latest technological advances. You'll also need to be well organised and act with precision in being the interface between management and technology in most circumstances. You'll also need an inquiring mind and a flexible, creative approach. Often, the most obvious solution to a problem may not be the best one. IT professionals are required to collect all the facts, often through their own initiative, and analyse them accordingly.

Who will employ me?

Graduates with strong networking skills, especially those with solid technical and business backgrounds, are finding abundant employment opportunities. This is a result of increasing interest in network intensive applications, like e-commerce, accelerating the development of computer networks and distributed systems. In our connected world, there will always be demand for graduates with networking and security skills as organisations continue to exploit the Internet to develop opportunities that connect globally in the safest and most secure ways possible.

In 2010, 79% of UniSA graduates found full-time employment upon completion of their degree. Graduates of this program may find employment in both small or large specialist IT services and solution providers in South Australia, interstate or overseas. After completing this program you are likely to be employed in positions such as but not limited to: Network Analyst, Customer Service Manager, Customer Relationship Manager, Telecoms Engineer, Capactity Planner, Security Specialist, Systems Administrator, Network Manager, PC Support, Sourcing Specialist or Network Designer.

Professional recognition

This program has been accredited by the Australian Computer Society (ACS). Graduates may be eligible to apply for Professional Membership.

Honours
An Honours degree (LHCP) is available as an additional year of study for those with outstanding academic results.

Additional Notes
Some courses are available in online/external mode, others are only offered internally

Program requirements

FIRST YEAR

First Half
(Study Period 2)

- Information Systems Professional Practice
- Problem Solving and Programming
- Information Technology Fundamentals

Second Half
(Study Period 5)

- Web and Database Development
- Network Fundamentals
- Programming Fundamentals

SECOND YEAR

First Half
(Study Period 2)

- Systems Analysis, Design and Project Management
- Data Structures
- Network Architecture

Second Half
(Study Period 5)

- Web Engineering
- User Interfaces
- Mobile Commerce
- Network Management

THIRD YEAR

First Half
(Study Period 2)

- Elective
- CCNP1+2: Internetworks
- Operating Systems
- Information Technology Security

Second Half
(Study Period 5)

- ICT Project
- CCNP3+4: Switching and Converged Networks
- Information Security Management

Mrinalini Rae

3rd year Bachelor of Information Technology (Networking and Security)

'I am interested in studying computers and had heard positive feedback about the program at UniSA. I like that there is a lot of research which improves our knowledge, along with practical sessions and the opportunity for hands-on learning.

You can expect to get lot of experience and knowledge from guest speakers who come from various fields of business organisations and share their views, which helps to equip students with knowledge about what is going on in the industry.

This program provides a very good way to work out your skills in different sections of the IT field, such as IT security and networking. Once I graduate, I would like to get a job as a business analyst.'

(08) 8302 2376 or 1300 UNINOW
study@unisa.edu.au

Bachelor of Information Technology

(Software Development)

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SATAC code	434871
UniSA program code	LBCP
CRICOS code (international students only)	067897M
ATAR (February 2011 cut-off)	60.00
Program length	3 years
Prerequisites	None
Assumed knowledge	None
Home campus	Mawson Lakes
Accepts Special Entry (STAT)	Yes
External study available	Yes*
Part-time study available	Yes
TAFE credit available	Yes
Honours study available	Yes
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Program overview

If you're interested in developing software development and programming skills in a variety of languages, then you'll find the Bachelor of Information Technology (Software Development) both challenging and rewarding. A key focus is on learning how large software systems are designed and created. You'll be exposed to realworld applications and the latest research developments and technologies through student placements, internships and research projects with industry partners, providing greater employment prospects after graduation.

What will I study?

In the common first year, you'll study core concepts in information technology, establishing a solid foundation for more advanced coursework in subsequent years. At this point if you wish to change to another specialisation within the IT program, you will have the opportunity to do so without loss of credit. In the final two years, you'll study core topics leading to a major where you'll gain a solid grounding in the design, implementation and testing of small and large software systems. In the final year, you'll complete a project that puts into practice many of the skills acquired.

What does it take?

To be a successful software developer and programmer you'll need strong analytical skills and be a logical thinker with an interest in problem solving. IT professionals are often required to document solutions and communicate with others, particularly those from a non-IT background. This means good written and verbal communication skills are required, as well as the ability to work well with others. You'll also need an inquiring mind and a flexible, creative approach. Often, the most obvious solution to a problem may not be the best one. IT professionals are required to collect all the facts, often through their own initiative, and analyse them accordingly.

Who will employ me?

In 2010, 79% of UniSA graduates found full time employment and the immediate prospects for employment continue to be very good. Globally many organisations are developing or redeveloping applications to drive value from their IT systems in public and private sectors. Typically, many organisations acquire software frameworks which are adapted to suit their operations. This requires using different tools and techniques to exploit these frameworks so that the applications fit the nature of the business and its processes. Predominantly, this type of work is undertaken within organisations as the software needs to be aligned to the business and its end-users.

Opportunities for employment exist in Australia and overseas as qualified IT graduates are readily accepted worldwide. Some graduates have even started up their own businesses due to the transferrable nature of software development and programming skills. As a graduate, you can expect starting salaries in excess of other professions and may secure employment at respected, high-profile companies. After completing this program you are likely to be employed in positions such as but not limited to: Software Architect, Software Developer, Testing Manager, Release Manager, Sales Consultant, Quality Manager, Trainer, Application Architecture, Strategic Planner, Software Engineer or Programmer.

Professional recognition

This program has been accredited by the Australian Computer Society (ACS). Graduates may be eligible to apply for Professional Membership.

Honours

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Additional Notes

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