

# postgraduate

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SWINBURNE  
UNIVERSITY OF  
TECHNOLOGY

Postgraduate courses in  
**Network Systems**



The convergence of computing and telecommunications is creating a new kind of networking technology based on IP networks and multimedia applications. Networks today are expected to offer multimedia services anywhere and anytime. Within corporations, intranets support the interaction of people and the linking of people to information systems. There is an increasing demand for mobility and people expect seamless access to global networks. IP networking is expected to be everywhere and to offer multimedia services of all types.

Swinburne's network systems programs are intended for new graduates and for experienced graduates who wish to update their skills or change their area of specialisation. They are concerned with the design, management and maintenance of networks in corporations and public networks, or service provision to public and private networks.

# Network Systems

## Graduate Certificate in Science (Network Systems)

## Graduate Diploma in Science (Network Systems)

## Master of Science (Network Systems)

### Program overview

Swinburne's network systems programs are designed to make students proficient in all aspects of wired and wireless networks and to be conversant with new kinds of networking technology based on IP networks and multimedia applications.

The programs offer high level coverage of networking principles and the emerging issues and technologies in networks. Specific competencies introduce industry certification material from Cisco CCNA, CCNP and Microsoft MCSE. (Please note that certification examinations are not part of this course).

Graduates will be well equipped with the practical and theoretical skills to gain immediate access to a career as a network specialist.

### Location

Hawthorn campus

### Program length

#### Graduate Certificate

Six months full-time or equivalent part-time

#### Graduate Diploma

One year full-time or equivalent part-time

#### Master

One and a half years full-time or equivalent part-time

### Admission requirements

Applicants normally require a degree or equivalent in engineering, science, information technology, business or commerce with an emphasis on information technology.

Advanced standing of up to 50 credit points may be obtained for those who have completed a relevant degree or have extensive work experience in the discipline.

### Professional recognition

The CCNA, CCNP and MCSE certifications are widely recognised and valued in industry. The course fully prepares you for the CCNA certification exam and partly for the MCSE and CCNP.

### Program structure

All units of study are valued at 12.5 credit points unless otherwise stated. Subject to the approval of the course coordinator, students may replace units with a research report (valued at 12.5 credit points) and/or a research paper (valued at 25 credit points).

### Graduate Certificate

In order to gain the graduate certificate students must successfully complete four units of study to the value of 50 credit points. Students must undertake at least three core units and one elective.

### Graduate Diploma

In order to gain the graduate diploma students must successfully complete eight units of study to the value of 100 credit points. Students must undertake at least six core units and two electives.

### Master

In order to gain the master students must successfully complete 12 units of study to the value of 150 credit points. Students must undertake eight core units and four electives.

### Units of study

#### Core units

Networks and Routing \*  
Internetworking Technologies \*  
Networking Administration #  
Enterprise Networking #  
Introduction to Network Programming  
Network Computing  
Networked Applications  
Real Time Operating Systems

#### Elective units

Internetwork Routing +  
Remote Access Networks +  
Internetwork Switching +  
Simulation of Networks  
Mobile and Personal Networking  
Design and Management of Networks  
Internet Security  
Networking and Online Games  
Systems Project Management  
Research Methods  
Applied Communication  
Minor Thesis

\* Prepares students for CCNA (Cisco Certified Network Associate) Qualification

# Prepares students for four core units of MCSE (Microsoft Certified Systems Engineer) Qualification

+ Prepares students for the first stages of CCNP (Cisco Certified Network Professional) Qualification.

# Network Systems

## General information

### Facilities

As a Swinburne student you will automatically gain access to a range of facilities to assist your studies. These include a well-resourced library and computer laboratories.

There is also a sports association with fitness and health facilities on campus, plus a wide range of clubs to join.

Other services available include personal counselling, health services, careers counselling, housing, employment and financial advice.

### Fees for local students

In 2007, tuition fees for this program are based on \$1,450 per 12.5 credit point unit of study. In the event that a unit of study is derived from another program, the applicable fee will be that of the other program. All fees are reviewed each year and may increase without notice.

FEE-HELP is a government funded loan that helps eligible fee paying students pay their tuition fees. FEE-HELP is not available to New Zealand citizens and most holders of Australian permanent visas, however is available to Australian citizens and holders of a permanent humanitarian visa. For further information visit: [www.goingtouni.gov.au](http://www.goingtouni.gov.au)

### Application procedure

Application forms can be obtained by phoning 1300 368 777 or can be downloaded from the web at: [www.swinburne.edu.au/postgrad](http://www.swinburne.edu.au/postgrad)

Applications must be accompanied by a certified copy of original transcripts of official results and a curriculum vitae.

**Round one** – Applications close early November

**Round two** – Applications close early February

For the next round of closing dates visit:

[www.swinburne.edu.au/postgrad](http://www.swinburne.edu.au/postgrad)

### International students

If you want to study at Swinburne but are not an Australian resident, telephone Swinburne International on (+61 3) 8676 7002 or 1800 897 973 from within Australia, or visit: [www.swinburne.edu.au/international](http://www.swinburne.edu.au/international)

### Further information

Telephone: 1300 368 777

Email: [info@ict.swin.edu.au](mailto:info@ict.swin.edu.au)

Website: [www.swinburne.edu.au/ict](http://www.swinburne.edu.au/ict)

### CourseFinder

For detailed course and unit information visit: [www.swinburne.edu.au/coursefinder](http://www.swinburne.edu.au/coursefinder) or ring the Information Hotline 1300 368 777

### Postgraduate Information Day

The Atrium, John Street, Hawthorn campus.  
Tuesday 10 October 2006, 3.00pm – 7.00pm

### FAQ

If you have a question that needs answering, search our FAQ website. Can't find an answer? Submit an enquiry for a prompt and convenient response. Visit [www.swinburne.edu.au/faq](http://www.swinburne.edu.au/faq)

### eNews, Views and Profiles from Swinburne

visit: [www.swinke.com](http://www.swinke.com)

### Swinburne's Virtual Campus Tour

visit: [www.swinburne.edu.au/campustour](http://www.swinburne.edu.au/campustour)

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# Let's get on with it.