

SWIN
BUR
* NE *

SWINBURNE
UNIVERSITY OF
TECHNOLOGY

Invent the future



Study Professional Software Development at Swinburne

course information hotline 1300 368 777 | swinburne.edu.au/ict



SWINBURNE
UNIVERSITY OF
TECHNOLOGY

Professional Software Development

- ▶ course information hotline 1300 368 777
- ▶ swinburne.edu.au/ict

What is Software Development?

Software professionals utilise their technical, communication, problem-solving and people skills in order to design, develop and manage software systems in organisations. They are involved in a wide range of activities, from programming through to analysing client requirements, designing system architectures, managing projects, controlling quality and costs, and integrating systems into organisations.

Career opportunities

Software professionals not only require technical skills, employers are now looking for well rounded graduates, with skills in areas such as communication, presentation and the ability to work in teams. In the software development industry there are tremendous and lucrative opportunities for travel and work overseas. Software development career opportunities include:

- ▶ Software Developer
- ▶ Web Developer
- ▶ Games/Multimedia Developer
- ▶ Software Designer
- ▶ User Interface Engineer
- ▶ Software Tester
- ▶ Product Manager
- ▶ Project Manager
- ▶ Systems Analyst
- ▶ Solution Architect
- ▶ Chief Technology Officer

Feature degrees

Bachelor of Science (Professional Software Development)

This three year program aims to produce graduates with a deep understanding of software architecture and software design with emphasis on communications, team work and business knowledge. Students cover advanced software development with an emphasis on problem solving, practical software engineering including the critical skills of quality assurance, project management and the use of industry-standard development techniques and tools. Graduates are equipped with a valuable combination of industry and academic knowledge for future application in the software industry.

All students choose a specialisation in an area where they will develop advanced skills and knowledge. Current specialisation options include:

- ▶ Enterprise Systems Development
- ▶ Database Systems
- ▶ Multimedia and Games Development
- ▶ Network
- ▶ Intelligent Systems
- ▶ Information Systems and Analysis
- ▶ Web Development

Key subject areas

Problem Solving, Software Development, Database, Internet Technologies, Software Engineering and Development Practices, Project Management, Data Communications and Security, Software Architectures and Design, Software Deployment and Evolution, Usability, Major Project.

Industry-Based Learning

Swinburne ICT courses include an optional Industry-Based Learning (IBL) year, in which you may be placed in paid, supervised employment as part of your degree. IBL gives you practical experiences and a proven advantage in the job market.

Professional recognition

This degree is accredited at the professional level with the Australian Computer Society (ACS). The program has been externally vetted by ACS, ensuring that it meets the highest standard of the profession and industry.

Scholarships

Swinburne understands that tertiary study can be a long and expensive commitment and offers a wide variety of scholarships that recognise excellence in areas such as academic achievement, community service, leadership and equity. Visit www.swinburne.edu.au/scholarships

International experience

Swinburne offers opportunities to study overseas as part of your degree program. Study tours or IBL placements are available in many locations including Asia, Europe and North America. Visit www.swinburne.edu.au/edabroad

Pathways

Students with a relevant post-secondary qualification (particularly a TAFE diploma or advanced diploma) can gain entry into Swinburne ICT courses usually with exemptions from their degree.

Applicants must have completed a TAFE computing discipline such as Diploma of Information Technology or Advanced Diploma of Computer Science with an average score of at least 60 percent. These pathways are also available to international students with an equivalent qualification.

For further information visit:
www.swinburne.edu.au/ict/diptodegree

Location

Hawthorn campus.

Application procedure

Applications for full-time places must be made through VTAC. Visit www.vtac.edu.au

Mid-year applications are made directly to Swinburne. Visit www.swinburne.edu.au/midyear

Note: If you are interested in the Bachelor of Science (Professional Software Development), then we suggest you might also apply for the Bachelor of Computing. This degree has a flexible structure and combines studies in software development, information systems and computer networks. See course details listed in the table below.

Fees

Commonwealth Supported Places – All students enrolled in higher education courses are required to contribute to the cost of their education. The Higher Education Contribution Scheme (HECS) has been replaced by HECS-HELP, a loan that helps eligible students to pay their student contribution. Student contributions will vary according to the course and higher education provider.

Full fee places – Swinburne also offers full fee paying places to domestic undergraduate students.

For further information visit
www.swinburne.edu.au/fees

Postgraduate courses

To find out more about Swinburne postgraduate courses by coursework or research, telephone 1300 368 777 or visit www.swinburne.edu.au/postgrad

International students

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

Student Services

Swinburne provides a range of services to its students including career advice, child care, counselling, employment, equity, finance and housing.

To learn more visit www.swinburne.edu.au/stuserv

Further information

Telephone: 1300 368 777
Email: info@ict.swinburne.edu.au
Website: www.swinburne.edu.au/ict
PO Box 218, Hawthorn VIC 3122

Course	VTAC code*	Duration	VCE prerequisites
Bachelor of Science (Professional Software Development)	34001	Three years #•	Unit 1 and 2 – Mathematics (any) and Units 3 and 4 – a study score of at least 20 in English (any)
Bachelor of Computing with a Software Development Specialisation	34171	Three years #	Unit 1 and 2 – Mathematics (any) and Units 3 and 4 – a study score of at least 20 in English (any)

An optional and additional year of Industry-Based Learning (IBL) may also be available. For more detailed information visit www.swinburne.edu.au/ict/ibl

• **Optional Honours year**

* Separate codes exist for full-fee paying and international entry – check VTAC Guide

Visit: www.swinburne.edu.au/coursefinder for more information on courses and units

The material in this brochure was correct at the time of printing, (August 2007) but is subject to alteration or amendment without notice by Swinburne.

CRICOS provider number 00111D

Designed and produced by Swinburne Press Design Studio
SP0493-10-0807



Let's get on with it.