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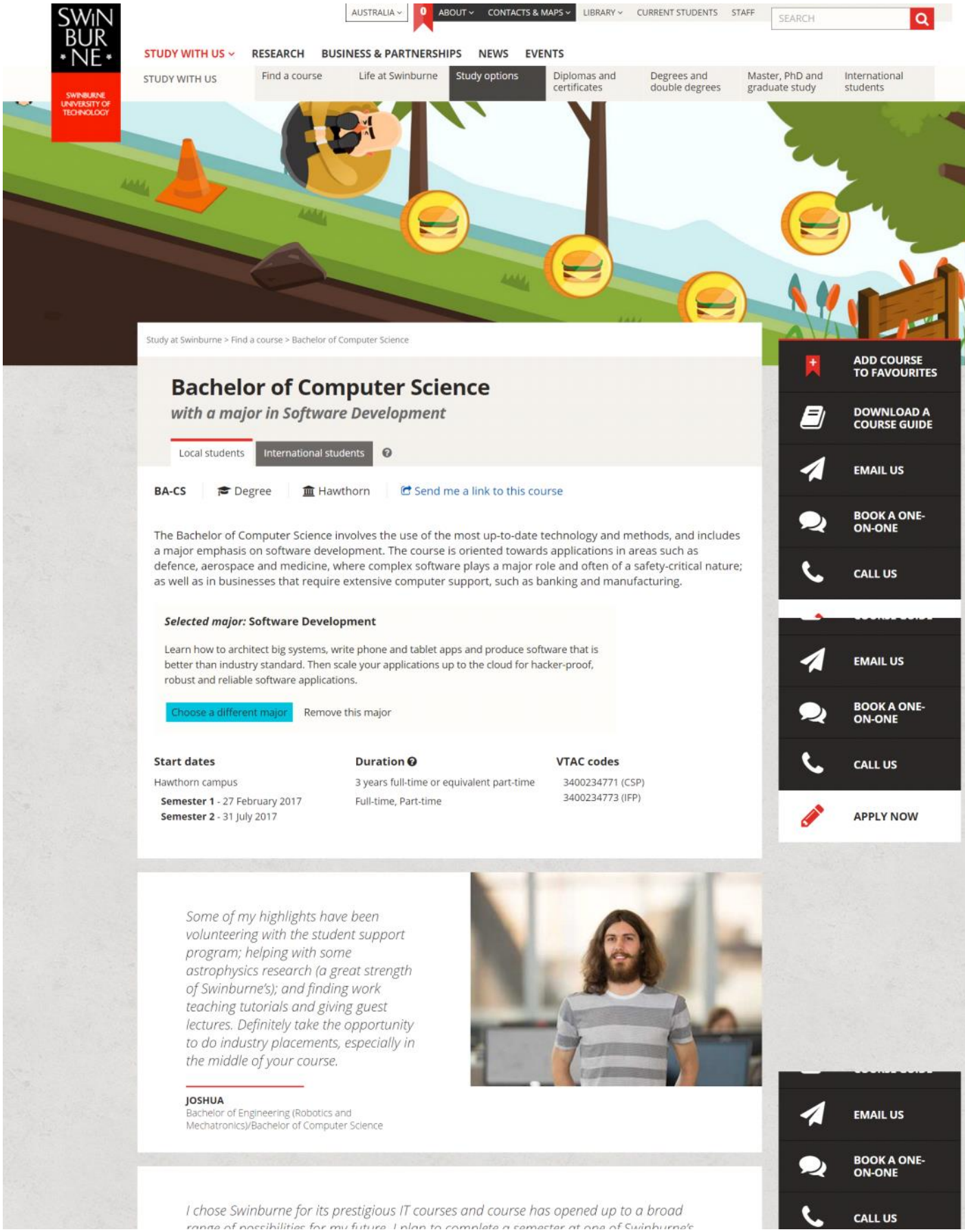

I chose Swinburne for its prestigious IT courses and course has opened up to a broad range of possibilities for my future. I plan to complete a semester at one of Swinburne's partner universities in Sweden, then apply for an Industry-Based Learning placement the following year.

BAILEY
Bachelor of Computer Science

Course details

- Course structure, work integrated learning, career opportunities and professional recognition.

Course structure

Successful completion of the Bachelor of Computer Science requires students to complete units of study to the value of 300 credit points. All units of study are valued at 12.5 credit points unless otherwise stated.
View course rules and special requirements

Core studies
8 units (100 credit points)

Units	Unit codes	Credit points
Computer and Logic Essentials	COS10003	12.5
Introduction to Programming	COS10009	12.5
Creating Web Applications	COS10011	12.5
Networks and Switching	TNE10006	12.5
Fundamentals of Data Management	COS20015	12.5
Professional Issues in Information Technology *	ICT30005	12.5
Software Engineering Project A *	SWE40001	12.5
Software Engineering Project A *	SWE40002	12.5

**Outcome unit – completion demonstrates the attainment of course learning outcomes*

CCNA 1/2

+

Major
8 units (100 credit points)

Selected major: **Software Development**

Learn how to architect big systems, write phone and tablet apps and produce software that is better than industry standard. Then scale your applications up to the cloud for hacker-proof, robust and reliable software applications.

Units	Unit codes	Credit points
User-Centred Design	COS20001	12.5
Object-Oriented Programming	COS20007	12.5
Development Project 1 - Tools And Practices	SWE20001	12.5
Data Structures and Patterns *	COS30008	12.5
Software Development for Mobile Devices *	COS30017	12.5
Creating Secure and Scalable Software *	COS30041	12.5
Interface Design and Development	COS30043	12.5
Development Project 2 – Design, Planning, and Management	SWE30010	12.5

**Outcome unit – completion demonstrates the attainment of course learning outcomes*

Choose a different major | Remove this major

+

Other studies
8 units (100 credit points)

Choose from a combination of the following course components to complete 100 credit points of other study. Students may also select elective units (12.5 credit points each).

Second major | Minors | Elective units

Second major (100 credit points)
A second major can be chosen in addition to your first major and will be named on your testamur certificate. Please note you cannot choose the same major as your first major.

Network Design

Selected Secondary Major: **Network Design**

Learn how to secure information and communication systems and become competent in computer network technologies and security. Study programming, internet technologies, systems analysis and design, database technologies and software engineering, as well as advanced topics in computer networks and security.

Units	Unit codes	Credit points
Technical Software Development	SWE20004	12.5
Network Routing Principles	TNE20002	12.5

CCNA 3/4

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CCNA 3/4

CCNP Switch

Units	Unit codes	Credit points
Technical Software Development	SWE20004	12.5
Network Routing Principles	TNE20002	12.5
Network Administration	TNE10005	12.5
Design & Management of Networks*	TNE30022	12.5
Advanced Switching	TNE30023	12.5
Enterprise Network Server Administration*	TNE30018	12.5
Information Technology Project Management	INF30029	12.5
UNIX for Telecommunications*	TNE30019	12.5

**Outcome unit – completion demonstrates the attainment of course learning outcomes*

Full-time study: 100 credit points/eight standard units of study per year
Part-time study: 50 credit points/four standard units of study per year
One credit point is equivalent to one hour of study per week per semester (including contact hours and private study)
See the course planner for an example degree structure

Course learning outcomes

Students who successfully complete this course will be able to:

1. Apply a broad and coherent knowledge of computer science and software development in diverse contexts and domains using critical thinking and judgment.
2. Apply appropriate methods and contemporary tools to the scoping, analysis, design, construction, verification and operation of software systems.
3. Communicate proficiently to a variety of audiences, function as an effective member or leader of a team, and use the basic tools and practices of project management within project work.
4. Demonstrate professionalism, integrity, ethical conduct, professional accountability and an awareness of professional practice in a global context.
5. Apply problem analysis and decision-making methodologies to identify, design and implement solutions to industry relevant problems with intellectual independence.
6. Reflect on personal performance, learning, and self-management processes as a means of continued professional development and lifelong learning.

Work integrated learning

Swinburne's Work Integrated Learning program provides opportunities to gain invaluable skills and confidence in knowing that you have what it takes to land a job in your field by graduation. You can also earn credit towards your degree. Choose from six- or 12-month professional placements, professional internships, industry-linked projects, industry study tours and accreditation placements. Find out more.

Choose a professional placement option:

12 months | Six months

Career opportunities

Graduates typically find employment in organisations engaged in medium- to large-scale software development. Initially graduates are usually employed in technical areas such as programming and systems analysis and design, internet systems development. They are well-prepared for progression into project leadership and management positions as their experience develops.

Professional recognition

This degree is accredited with the Australian Computer Society at the professional level.

Fees

- Fees for 2016.

Scholarships

At Swinburne scholarships are about providing opportunity, promoting equity and recognising excellence and achievement. Scholarships are available for both commencing and current students.

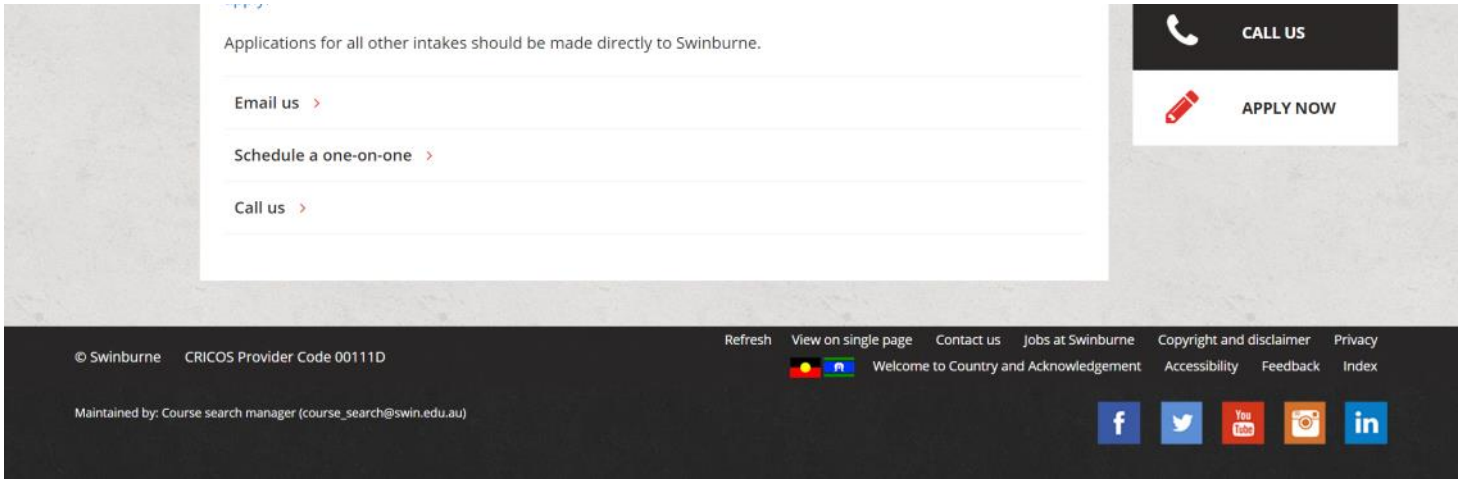
Find out more about scholarships ›

How to enter this course

- Entry requirements, pathways, credit transfer and recognition of prior learning.

How to apply

Applications for Semester 1 for courses listed on the VTAC Guide are generally made through VTAC. Under certain circumstances, some students (e.g. Non-Year 12) may apply directly to Swinburne. Find out more about how to apply.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