

Information Technology and Systems

Bachelor of Information Technology and Systems – General version

The general version of the Bachelor of Information Technology and Systems (BITS) provides you with the broadest IT study choices for an exciting and varied IT career, virtually anywhere in the world. IT professionals encompass every industry, from business, government and healthcare, to sports and entertainment. The BITS degree provides you with the skills, knowledge and practical experience, so you can learn and adapt as your career develops and changes for years to come.

Information and communications technologies and systems touch every part of life, in our work, entertainment and recreation. Employers seek technical, practical and people skills in all new employees. This course combines these skills to best position you for a great number of entry-level IT jobs.

The content of the BITS degree is designed to be innovative, relevant and adaptable to changing industry needs. If you are not sure what you want in an IT career, studying the general form of the BITS degree keeps your options open while providing you with a comprehensive understanding of IT concepts and principles.

The core units of the degree focus on the fundamentals of information and communications technologies and systems: computer systems, networks and data communications, programming, database, systems analysis and design, IT in organisations and project management. You then devise the rest of your degree to suit your own interests and strengths, selecting fifteen units from the Faculty of Information Technology and other faculties at Monash, on any campus or through off-campus learning (OCL). You may select a specialised 'major' after the first or second semester, or you may choose units more broadly. You can even study languages, journalism, marketing, education, science or design as part of your BITS degree. So the general form of the Bachelor of Information Technology and Systems is truly a personally tailored degree.

The Industry Experience Project is a very important aspect of the degree. It provides you with an edge over other graduates in applying for jobs. All BITS students complete an industry or studio project in their third year as a member of a project group, to develop a solution to a business or technical issue for a real client. Selected students may also be offered an opportunity for an Industry-Based Learning* (IBL) placement for 22 weeks with one of our industry partner organisations, as part of their degree. This program includes a \$15,000 scholarship.

You can choose whether to study the general version of the BITS degree on-campus at the Berwick, Caulfield, Gippsland, South Africa or Sunway (Malaysia) campuses, or via off-campus learning (OCL) mode.

***Note: the IBL program is available currently to selected Australian residents or citizens**



Career information

Graduates of the BITS degree will be prepared for careers across all industries in a variety of information technology fields (depending on units selected) such as:

- systems development
- systems analysis and design
- database administration
- project management
- IT consultancy

Bachelor of Information Technology and Systems

general version

Monash course code: 3334. CRICOS code: 054529J. Berwick, Caulfield, Gippsland (on- and off-campus), South Africa* and Sunway campuses

Course structure

First year

FIT1001 Computer systems – Introduces basic computer hardware and operating systems software with emphasis on the concepts required to understand the low-level and internal operations of computer systems.

FIT1002 Computer programming – Provides an overview of programming and its role in problem-solving and strategies for meeting user requirements and for designing solutions to programming problems.

FIT1003 IT in organisations – Provides the organisational and social context for the technical core units, and introduces students to the professional roles and responsibilities of IT practitioners.

FIT1004 Database – Introduces the principles and concepts of database systems, including planning, designing, using and implementing a data model using an enterprise-scale relational database system.

FIT1005 Networks and data communications – Introduces the fundamentals of distributed networked environments, and provides knowledge of internetworking standards and understanding of the networking architecture, technology and operation.

One information technology unit (level 1, 2 or 3) – this unit must be taken from within the Faculty of Information Technology.

Two elective units – these are free choice level 1, 2 or 3 units which may be taken from within the Faculty of Information Technology or from any other faculty in the university.

Second year

FIT2001 Systems analysis and design – Provides an overview of the main techniques used for carrying out analysis and specification of the design of a computer system, with a focus on the unified modelling language (UML).

FIT2002 IT project management – Provides both a theoretical and practical overview of processes involved in managing large projects, with particular emphasis on projects common to the IT industry.

Three information technology level 2 units – These units must be taken from within the Faculty of Information Technology.

One information technology unit (level 1, 2 or 3) – This unit must be taken from within the Faculty of Information Technology.

Two elective units – these are free choice level 1, 2 or 3 units which may be taken from within the Faculty of Information Technology or from any other faculty in the university.

Third year

FIT3047 and FIT3048 Industrial projects 1 and 2 – Students will have the opportunity to experience working in a small project team and, under the direction of a supervisor to respond to the information technology needs of a real-life industry client.

OR

FIT3039 and FIT3040** Studios 1 and 2** – In these two units spread over 12 months, students work as a team, using project planning/management skills to design, build and deliver a game system under the guidance, where possible, of a commercial client.

Four information technology level 3 units – these must be taken from within the Faculty of Information Technology.

Two elective units – these are free choice level 2 or 3 units which may be taken from within the Faculty of Information Technology or from any other faculty in the university.

Find out more today!

Contact the Berwick School of Information Technology:

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email: multimedia@infotech.monash.edu.au

Contact the Caulfield School of Information Technology:

Tel: +61 3 9903 2535
email: frontdesk@infotech.monash.edu.au

Contact the Gippsland School of Information Technology:

Tel: +61 3 9902 6835
email: gsit@infotech.monash.edu.au

Contact the School of Information Technology, Sunway campus, Monash Malaysia

Tel: +60 3 5514 6000
email: studymalaysia@monash.edu

Contact the Monash South Africa School of Information Technology:

Tel: +27 11 950 4030
email: sit@infotech.monash.edu

* Degree name pending government approval.

** Offered only on some campuses.

Disclaimer: While the information provided in this document was correct at the time of publication, Monash University reserves the right to alter procedures, fees and regulations should the need arise. Students should carefully read all official correspondence, and other sources of information for students (such as websites) to be aware of changes to the information contained in this document. This information was published correct as at July 2008.

CRICOS provider: Monash University 00008C.
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