

Bachelor of Computing/ Bachelor of Information Systems



Combined Degree (twice as useful)

Course Objectives

The course objectives of the four year BComp–BIS combined degree are as follows:

- to provide a thorough introduction to the theory and practice of Information & Communications Technology (ICT);
- to provide a broad base of ICT knowledge to support lifelong learning in the field of ICT;
- to provide a professional degree that will graduate people able to fulfil key roles in the ICT and related industries, and who will liaise between ICT personnel and other professional and industrial personnel;
- to produce graduates who have a good understanding of roles of ICT in society, in organisations, and for individuals, and who know that ICT is a powerful factor for change in modern society;
- to provide the community, particularly Tasmania, with graduates who are well equipped to deal with ICT and develop information infrastructures, both in the public and private spheres;
- to produce graduates with knowledge, skills and understanding of: (a) the relationships of information and ICT to organisational needs; (b) current management practice in the development of information systems, their use and associated policy formulation and analysis; (c) the value of research, critical thinking and effective communication in the management of information systems.
- to produce ICT professionals with the ability to apply new and emerging technologies to create solutions in the workplace;
- to produce graduates who have well developed professional skills in such areas as interpersonal communication, working in teams, and technical report writing.

What is a combined degree?

It's two degrees for just one extra year of study! It usually takes six years if you studied each degree separately. However, if you choose your units carefully to ensure all the core or compulsory units are completed for each degree, you will be awarded the equivalent of two degrees after four years of study.

Computing and Information Systems are also each offered as combined degrees with the following:

- Bachelor of Arts
- Bachelor of Business
- Bachelor of Economics
- Bachelor of Fine Arts
- Bachelor of Laws
- Bachelor of Science
- Bachelor of Teaching

Are there advantages in having a combined degree?

Plenty! As the work environment becomes more technology-driven, it makes sense to be able to manage this technology and understand its implications. The successful people will be those who can keep up the pace with developments and use them to their advantage.

With just one or two years extra study, you gain the equivalent of two Bachelors degrees in two specialty areas. Think how this will enhance your employment prospects! Your thorough knowledge of computing technology will enable you to develop and implement ideas in your chosen field.

The Bachelor of Computing component of the combined degree will focus on areas of:

- Systems and Networks
- Computer Security
- Artificial Intelligence
- Multimedia and Internet Technologies
- Software Engineering
- Distributed Systems

The Bachelor of Information Systems component of the combined degree will focus on areas of:

- Management of Information Systems
- Systems Development
- Electronic Business

What are the entry requirements?

Minimum university entry requirements must be met but it is not necessary to have previously studied computing or information systems. This combined degree is available on the Hobart and Launceston campuses.

Here is a sample programme

Year	Bachelor of Computing	Bachelor of Information Systems
One	Programming and Problem Solving Programming with Data Structures Introduction to Systems Data Management	Business Information Systems Information Modelling & Infrastructures Accounting & Financial Decision Making Introduction to Management
Two	Algorithms Operating Systems 2 x Computing Schedule B electives	Systems Analysis & Design Systems Development Methodologies Introduction to Logic Information Management
Three	Professional ICT Management Software Construction 2 x Computing Schedule E electives	Database Management Systems Web Management Foundations of Media and Information Technology Law 1 x IS elective
Four	Software Engineering Project A and B 2 x Computing Schedule E electives	IS Project Management Decision Support Systems Electronic Commerce Business Logistics or IS Strategic Planning & Management

Current Computing Schedule E electives are:

- Artificial Intelligence
- Computer Security
- Concurrent Programming
- Mobile and Ubiquitous Computing
- Data Mining and Text Retrieval
- Computer Networks
- Advanced Dynamic Web Development
- Computer Graphics & Animation
- Network Administration and Security
- Human Computer Interaction

More information is available at <http://courses.utas.edu.au>

So where does all this study lead?

Students are prepared for careers and research in the area of Information & Communications Technology (ICT). Current forecasts indicate a world wide shortage of ICT professionals for at least the next ten years. Computing and Information Systems professionals get well paid, interesting positions in almost any area — government, commerce, industry, education and research. The range of careers is wide, and includes website management, system administration, client support and training, program design, development and testing, mobile computing and telecommunications, graphics, internet and web engineering, artificial intelligence, business analysis, database analysis, systems analysis & design, project management, information management, database administration, telecommunications management, and electronic commerce or electronic business.

Where can you get more information?

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