

ICT Degree Comparison Table

PROGRAM		BIOINFORMATICS See page 28 for details	COMPUTER ENGINEERING See page 30 for details	SOFTWARE ENGINEERING See page 34 for details	COMPUTER SCIENCE See page 32 for details	ELECTRICAL ENGINEERING	TELE-COMMUNICATIONS	PHOTONIC ENGINEERING	GEOINFORMATION SYSTEMS	INFORMATION SYSTEMS	BCOM INFORMATION SYSTEMS
Study Area		ENGINEERING Computing Degrees					Other ENGINEERING ICT Degrees				BUSINESS ICT Degrees
Length		4-years	4-years	4-years	3-years (Pass) or 4-years (Honours)	4-years	4-years	4-years	4-years	3-years (Pass) or 4-years (Honours)	3-years (Pass) or 4-years (Honours)
Degree		Bachelor of Engineering,	Bachelor of Engineering,	Bachelor of Engineering,	Bachelor of Science	Bachelor of Engineering,	Bachelor of Engineering,	Bachelor of Engineering,	Bachelor of Engineering,	Bachelor of Information Systems [replacing BSc (IS)]	Bachelor of Commerce
Website		www.computing.unsw.edu.au	www.computing.unsw.edu.au	www.computing.unsw.edu.au	www.computing.unsw.edu.au	www.eet.unsw.edu.au	www.eet.unsw.edu.au	www.eet.unsw.edu.au	www.gmat.unsw.edu.au	www.sistm.unsw.edu.au	www.sistm.unsw.edu.au
Program emphasis		Software applications in bioscience and data analysis	Efficient design of software and hardware together	Design and management of large software projects	Flexibility - core computing is covered with emphasis chosen by student	Design, develop and test complex electrical systems	Design, develop and test telecommunication systems	Design, develop and test optical systems	Geoinformation Systems and Technologies, Web-GIS, Remote Sensing and GPS	Development & management of IS/IT systems which are critical to the success of all modern organisations.	Project management of IS development process and implementation
Employing industries		IT companies; biosciences, pharmaceuticals, financial institutions; all industries requiring data analysis	IT Companies; telecommunication companies; engineering firms; smaller companies employing versatile graduates	IT companies; all industries, especially: telecommunication companies; defence; security; business and financial institutions	IT companies and all industries	Energy generators and providers, infrastructure developers, and automation, manufacturing, mining, telecommunications, data networks and electronics companies	Telecommunications, data networks, wireless, mobile and satellite and broadband companies	Photonic device companies, telecommunications carriers, optoelectronics companies and optical fibre providers	Spatial IT companies and government organizations (GIS, remote sensing, mapping, aerial & space imaging, navigation)	Major corporations such as financial institutions as well as IS and IT Consultancies	Major corporations such as financial institutions as well as IS and Management Consultancies
2009 entry		UAI: 88.00 (See page 24 for paths)	UAI: 88.00 (See page 24 for paths)	UAI: 88.00 (See page 24 for paths)	UAI: 88.00 (See page 24 for paths)	UAI: 88.00	UAI: 88.00	UAI: 88.00	2010 UAI: 90	UAI: 85.00	UAI: 95.30
Assumed knowledge		Maths Ext.1; English Standard Band 3	Maths Ext.1; Physics	Maths Ext.1; English Standard Band 3	Maths Ext.1	Maths Ext.1; Physics	Maths Ext.1; Physics	Maths Ext.1; Physics	Maths Ext.1; Physics	Maths Extension 1	Maths Extension 1
Preferred knowledge		Biology or Chemistry Maths Ext.2	Maths Ext.2	Maths Ext.2	Maths Ext.2	Maths Ext.2	Maths Ext.2	Maths Ext.2	Maths Ext.2	Maths Ext.2; English Advanced	Maths Ext.2; English Advanced
Course content over program	Computing	35%	40%	50%	42% - 67%	10%	10%	10%	30%	10% + electives	None
	Maths	15%	15%	10%	15% + electives	15%	15%	20%	10%	10%	None
	Information Systems	none	none	30%	electives to 20%	40% + Electives	20%	15%	40%	40% + electives	35% + Electives
	Electrical	none	30%	none	electives to 10%	50% +Electives	40% + Electives	40% + Electives	none	None	None
	Bioinformatics	15%	none	none	none	none	none	none	none	None	None
	others	Biosciences 35%	Physics 15%	SENG workshops 10%	Electives from science or arts to 10%	Management 5% and General education 5%	Management 5% and General education 5%	Management 5% and General education 5%	10%, electives from Science 10%	Electives from the Australian School of Business 40%	Electives from the Australian School of Business 65%
Special features		Specialist bioinformatics courses apply knowledge from other courses to bioinformatics problems	Specialisations in communications, electronics and advanced computing	Workshop courses in years 1 to 3 allow students the opportunity to practise team-based project work on realistic problems Co-op Scholarship Program available	Wide range of electives permit students to apply professional computing skills in many areas; Co-op Scholarship Program available	Specialisations in signal processing, power systems, microelectronics and control systems	Specialisations in mobile networks, data networks, signal processing, microelectronics and control systems	Specialisations in telecommunications, signal processing and photonic devices and networks	Specialisations in Geoinformation Systems, Technologies, and Applications including GPS, GIS, Remote Sensing and satellite imagery	Combines information systems and business studies, as well as computing to focus on the design and implementation of Information Systems for business; Co-op program (BIT) available	Combines information systems and business studies, to focus on the project management and implementation of Information Systems for business; Co-op program (ISM) available
Combined programs available		5.5-year BE BCom 5-year BE BSc 5-year BE BA 5-year BE MBiomedE 6-year BE LLB	5.5-year BE BCom 5-year BE BSc 5-year BE BA 5-year BE MBiomedE 6-year BE LLB	5-year BE BCom 5-year BE BSc 5-year BE BA 5-year BE MBiomedE 6-year BE LLB	3-year double majors in Science disciplines; 4-year BSc BCom 4-year BSc BSc 4-year BSc BA 5-year BE BSc (in most engineering degrees), 5-year BSc LLB 5-year BSc BDM (Digital Media)	5.5-year BE BCom 5-year BE BSc 5-year BE BA 5-year BE MBiomedE 6-year BE LLB	5.5-year BE BCom 5-year BE BSc 5-year BE BA 5-year BE MBiomedE 6-year BE LLB	5.5-year BE BCom 5-year BE BSc 5-year BE BA	From 2011: 5.5 year BE BCom 5 year BE BSc (Comp Sc) 5 year BE BA 6 year BE LLB	BCom/BIS 4-year (5-year Hons) BCom/BSc; BCom/BA BCom/LLB; BCom/BEEng BCom/BEc	BCom/BIS 4-year (5-year Hons) (2010 Intake) BCom BCom BSc; BCom BA BCom LLB; BCom BEng BCom BEc