615AA Bachelor of Information Systems

Year and Campus:	2010 - Parkville
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Level:	Undergraduate
Duration & Credit Points:	300 credit points taken over 36 months full time. This course is available as full or part time.
Coordinator:	-
Contact:	Eastern Precinct Student Centre **epsc-contact@unimelb.edu.au (mailto:epsc-contact@unimelb.edu.au)** **http://www.studentcentre.unimelb.edu.au/eastern (http://www.studentcentre.unimelb.edu.au/eastern)**
Course Overview:	There is no first year intake into this course after 2008. The degree in information systems focuses on the design, specification, and creation of information systems, and on the human and organisational arrangements needed to use information systems to achieve organisational goals. To cover these increasingly interrelated topics, the course offers study in five key areas: information systems, information technology, organisations, analytical skills, and professional competencies.
Objectives:	The objective of the Bachelor of Information Systems course is to prepare students to be part of teams that imagine, specify, design, justify, build, implement, manage and use information systems. To accomplish this objective, graduates must understand how to use information technology, including hardware, software, and telecommunications, as a conduit for the value-added information content of formal organisational systems. This understanding is based on a solid theoretical grounding in both technology and organisations, as well as on experience working both individually and in teams to apply the theory to practice.
Course Structure & Available Subjects:	The final first year intake into the Bachelor of Information Systems course was at the start of 2008. In addition to the information below, current BIS students should refer to other resources regarding course requirements and appropriate subject selection: # Previous years' handbooks (for each of the years that a student has been enrolled in the course). # The course planning website of the Science Student Centre: **http://www.science.unimelb.edu.au/current/planning/index.php (http://www.science.unimelb.edu.au/current/planning/index.php)** The description of the BIS course has changed over recent years. Students may complete this course as defined by the current structure or a structure detailed in a previous year's handbook, applicable to any year the student was enrolled in the course. **Course Requirements** Students must complete a minimum (and maximum) of 300 points of approved studies, comprising: # 187.5 points of core subjects in information systems at first, second and third year level (or approved alternatives); # 25 points of information systems elective subjects at third year level; # a 12.5 point subject in a business-oriented discipline (see below for list of options) # 75 points of elective subjects including at least 37.5 points at second or third year level; Students may not undertake more than 112.5 points at first year level towards this course.
Subject Options:	**First year level Core information systems subjects** Please note: 600-151 Informatics 1: Practical Computing replaces 615-145, 600-152 Informatics 2: People, Data and the Web replaces 615-240, 800-101 Critical Thinking With Data replaces 615-160 and 316-130 Quantitative Methods 1 is an alternative replacement for 615-160.

Subject	Study Period Commencement:	Credit Points:
INFO10001 Informatics 1: Practical Computing	Semester 1, Semester 2	12.50
INFO10002 Informatics 2: People, Data and the Web	Semester 1, Semester 2	12.50
UNIB10006 Critical Thinking With Data	Semester 1	12.50
ECON10005 Quantitative Methods 1	Semester 1, Semester 2	12.50

Second year level Core information systems subjects

Please note: 600-206 Informatics 3: Content Management replaces 615-230

The following are only available by invitation of the Head of Department: 615-237, 615-245 and 615-251

Subject	Study Period Commencement:	Credit Points:
INFO20001 Informatics 3: Content Management	Semester 1, Semester 2	12.50
SINF20004 Systems Analysis and Design	Semester 2	12.50
ISYS20002 Organisational Analysis and Change	Semester 1	12.50
SINF20002 Telecommunications Concepts	Semester 2	12.50

Second year level Elective information systems subjects offered in 2010

Subject	Study Period Commencement:	Credit Points:
SINF20006 Information Visualisation	Semester 2	12.50
SINF20007 Reasoning with Informatics	Semester 1	12.50
ISYS20005 Emerging Technologies For Transformation	Semester 2	12.50
ISYS20006 Shaping the Enterprise with ICT	Semester 1	12.50

Third year level Core information systems subjects offered in 2010

Please note: after 2010, the following subjects will only be available by invitation of the Head of Department: 615-346, 615-372, 615-315 and 615-355.

Subject	Study Period Commencement:	Credit Points:
SINF30003 Information Systems Architecture	Semester 1	12.50
ISYS30005 Project Management	Semester 1	12.50
ISYS30010 ICT-Based Inter-Organisational Processes	Semester 1	12.50
ISYS30006 Industrial Project	Semester 1, Semester 2	12.50
ISYS30003 Professional Issues in Info Systems	Semester 2	12.50

Third year level Elective information systems subjects offered in 2010

Subject	Study Period Commencement:	Credit Points:

SINF30004 Human Computer Interaction	Semester 1	12.50
SINF30005 Mobile Computing	Semester 2	12.50
INFO30001 Informatics 4: Web Applications	Semester 2	12.50
INFO30002 Informatics 5: Applied Analytics	Semester 1	12.50
SINF30007 Distributed Information	Semester 1	12.50
ISYS30007 Creating Business Value with ICT	Semester 1	12.50
ISYS30008 Business Analytics	Semester 2	12.50
ISYS30009 Implementing ICT Enabled Systems	Semester 2	12.50

Business-oriented subjects

Select one business-oriented subject from this list.

Subject	Study Period Commencement:	Credit Points:
ACCT10002 Accounting Transactions and Analysis	Summer Term, Semester 1, Semester 2	12.50
ECON10003 Introductory Macroeconomics	Semester 1, Semester 2	12.50
ECON10004 Introductory Microeconomics	Semester 1, Semester 2	12.50
FNCE10001 Finance 1	Semester 1, Semester 2	12.50
MGMT10002 Managing and Leading Organisations	Summer Term, Semester 1, Semester 2	12.50
BLAW10001 Principles of Business Law	Semester 1, Semester 2	12.50

Entry Requirements:	There is no first year intake into this course after 2008.
Core Participation Requirements:	It is University policy to take all reasonable steps to minimise the impact of disability upon academic study and reasonable steps will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact upon their active and safe participation in a subject are encouraged to discuss this with the relevant subject coordinator and the Disability Liaison Unit.
Further Study:	Honours and Masters level studies are available as indicated at **http://www.science.unimelb.edu.au (http://www.science.unimelb.edu.au)**
Graduate Attributes:	Upon completion of the Bachelor of Information Systems course, students should: understand how people use information and information systems; understand the business value of information and information systems in organisations; understand the organisational settings in which information systems are used, including major business functions and processes; have familiarity with, and some experience in, studying large, complex information systems; understand, and be able to specify, the technical aspects of an information system; be able to build small information systems; be familiar with a range of techniques, standards, and tools for building and using large information systems in an organisational setting; be able to participate in imagining, designing, justifying, implementing, and managing large information systems; have professional competencies for effective work in organisations, including listening, writing, researching, analysing, presenting, and working in teams; and know how to operate ethically within society's legal framework.
Generic Skills:	Specific capabilities will be developed through work in the five key areas of the course. 1. Information systems

This is the central theme of the course: information systems collect, process, store, and distribute information so that it can be used to make decisions, to keep track of resources, and to plan for the future. Particular focus is placed on imagining, specifying, designing, justifying, building, implementing, managing, and using information systems to add value in organisations.

2. Information technology
An understanding of the potential of information technology to add value is essential to the successful implementation and use of information systems. Students will become familiar with computer hardware and software, telecommunications, databases and data structures, information technology architectures, and information technology infrastructures. Practical experience in these areas will help students learn how to assess the current and future capability of information technology.

3. Organizations
To implement information systems efficiently and effectively in organisations requires the ability to analyse and understand organisational functions, processes, environments, characteristics, and cultures. This organisational perspective on information systems, and its relationship to the technical perspective developed in the information technology theme, is a distinguishing characteristic of the Bachelor of Information Systems course.

4. Analytical skills
Effective design, development, and implementation of information systems in organisations requires a broad range of analytical skills, including data classification and modelling, information mapping and representation, systems analysis and design, and statistics. These and other analytical skills are essential for understanding, and communicating about, complex organisational situations and the potential and performance of information systems.

5. Professional competencies
Graduates will, in the course of their jobs, work with people across a broad spectrum of technical and business interests and skills. Success in these interactions will require a well-developed set of personal competencies, including listening, collecting and synthesising information, writing, presenting, and working in teams.