

499AA Master of Information Technology

Year and Campus:	2012 - Parkville
CRICOS Code:	045361C
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Level:	Graduate/Postgraduate
Duration & Credit Points:	150 credit points taken over 18 months full time. This course is available as full or part time.
Coordinator:	Dr Peter Schachte
Contact:	<p>Melbourne School of Engineering Ground Floor, Old Engineering (Building 173)</p> <p>Current Students: Email: 13MELB@unimelb.edu.au (mailto:13MELB@unimelb.edu.au) Phone: 13 MELB (13 6352) +61 3 9035 5511</p> <p>Prospective Students: Email: eng-info@unimelb.edu.au (mailto:eng-info@unimelb.edu.au) Phone: + 61 3 8344 6944</p>
Course Overview:	<p>The Master of Information Technology is designed for graduates in engineering and physical sciences seeking professional development and enhancement of their IT knowledge, and also for professionals with background in other disciplines working in the IT industry without formal IT qualifications but with a broad interest in the scientific and engineering applications of the technology.</p> <p>The course design also has the provision to allow exceptional graduates in engineering, physical sciences or a cognate field to acquire research training to proceed to higher degrees by research.</p> <p>The technological understanding and skills presented in the Master of Information Technology are in high demand throughout the computing industry as society is being transformed by the emergence of highly connected, high speed high capacity networks, and a knowledge-based global e-economy.</p> <p>The course allows considerable flexibility, and individuals select their own program from the subjects on offer.</p> <p>The three major strands of study are:</p> <ul style="list-style-type: none"> # Internet Software Development Understanding web software technologies and building web applications # Intelligent Systems Understanding and developing intelligent systems for business applications # E-Business Technologies Understanding and applying technologies to business functions <p>There is no compulsory thesis component in the program, but a subject is offered in which a student may take on a research project under the supervision of a member of academic staff and document the outcome in a written report.</p>
Objectives:	<p>The program is designed to:</p> <ul style="list-style-type: none"> # Provide understanding and expertise in a number of key areas of information technology # Provide an introduction to research skills in a selected area # Improve analytical skills and competencies in problem solving # Improve oral and written communication skills
Course Structure & Available Subjects:	<p>The recommended or standard course structures are listed below. When setting the timetable every effort will be made to avoid clashes between the times of classes associated with these sets of subjects. Students should be aware however, that if it proves to be impossible to</p>

achieve a timetable without clashes in these sets of subjects, the Faculty reserves the right to modify course structures in order to eliminate the conflicts. Students will be advised during the enrolment period of the semester if the recommended courses need to be varied. Where the courses include elective subjects these should be chosen so that timetable clashes are avoided. In particular, students in combined degrees should plan their courses so that the subjects chosen in the other faculty do not clash with those recommended for the engineering component.

Subject Options:

A three-semester program on a full-time basis comprising 150 points as follows:

GROUP A (Foundation Studies) Subjects (take all four):

Subject	Study Period Commencement:	Credit Points:
COMP90041 Programming and Software Development	Semester 1, Semester 2	12.50
COMP90038 Algorithms and Complexity	Semester 1, Semester 2	12.50
COMP90007 Internet Technologies	Semester 1, Semester 2	12.50
SINF90001 Database Systems & Information Modelling	Semester 1	12.50

GROUP B (Advanced IT) Subjects (select at least two):

Subject	Study Period Commencement:	Credit Points:
SWEN90002 Engineering for Internet Applications	Semester 2	12.50
SINF90006 Internet Software Development Principles	Not offered 2012	12.50
ISYS90043 Enterprise Applications & Architectures	Semester 1	12.50
COMP90049 Knowledge Technologies	Semester 1	12.50

GROUP C (Project Management) Subjects (select One):

Subject	Study Period Commencement:	Credit Points:
SWEN90003 IT Project Management	Semester 1	12.50
ISYS90050 IT Project and Change Management	Semester 2	12.50
ISYS90052 Managing Large Projects	Semester 2	12.50

GROUP D (Advanced Electives):

Students may take any level-9 subjects offered by the Department of Computing and Information Systems to make up the balance of their course.

Students who enter the program with prior study equivalent to any of the Group A subjects will be given credit. The maximum credit that may be awarded is 50 points in total. All students must take 100 points of subjects from Groups B, C and D.

Note: Not all subjects may be offered every year and every semester. Students seeking definitive details should contact the Department of Computing and Information Systems prior to commencement.

Entry Requirements:

Applicants must have either:

- # A four-year degree in Engineering or the physical sciences and which includes mathematics at a minimum level of second year and at least one programming subject, as well as a final year grade average of at least 65% (University of Melbourne equivalent).

	<p>Applicants with a four-year degree with a substantial component of formal studies in computing may be eligible for advanced standing of up to 50 points</p> <p>OR</p> <p># An appropriate 3-year degree with a final year grade average of at least 65% (University of Melbourne equivalent) as well as a minimum of two years documented relevant work experience with exposure to programming in the IT industry.</p> <p>English Requirements</p> <p>English requirements can be found at:</p> <p>http://www.futurestudents.unimelb.edu.au/int/grad/english-req (http://www.futurestudents.unimelb.edu.au/int/grad/english-req)</p>
Core Participation Requirements:	<p>For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: http://www.services.unimelb.edu.au/disability/</p>
Graduate Attributes:	<p>Graduate Attributes: Ability to undertake problem identification, formulation, and solution Ability to utilise a systems approach to complex problems and to design and operational performance Capacity for creativity and innovation Ability to manage information and documentation</p>
Generic Skills:	<p>An Engineering graduate has a unique skill set comprising a blend of technical, business and interpersonal skills. Upon completion of the Master of Information technology at the University of Melbourne, students will have strong analytical skills, the ability to lead teams and projects and the creativity to look at problems in a way that provides innovative solutions. Our graduates are known for their high standards and professionalism, their understanding of global issues and their outstanding communication skills. For details, see "Objectives".</p>
Notes:	<p>The program is accredited by the Australian Computer Society (ACS).</p>