499AA Master of Information Technology

Year and Campus:	2015
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
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Course Overview:	**There is no further entry into this course.** 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. 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. 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. The course allows considerable flexibility, and individuals select their own program from the subjects on offer. The three major strands of study are: # **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 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.
Learning Outcomes:	The program is designed to: # 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:	**THE COURSE STRUCTURE BELOW ONLY APPLIES TO RE-ENROLLING STUDENTS WHO COMMENCED THEIR STUDIES PRIOR TO 2012.**

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

The recommended or standard course structures is 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 achieve a timetable without clashes in these sets of subjects, the School 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.

Subject Options:

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

GROUP A (Foundation Studies):

50 points

Subject	Study Period Commencement:	Credit Points:
COMP90007 Internet Technologies	Semester 1, Semester 2	12.50
COMP90038 Algorithms and Complexity	Semester 1, Semester 2	12.50
COMP90041 Programming and Software Development	Semester 1, Semester 2	12.50
SINF90001 Database Systems & Information Modelling	Not offered 2015	12.50

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

Minimum of 25 points

Subject	Study Period Commencement:	Credit Points:
SWEN90002 Engineering for Internet Applications	Not offered 2015	12.50
SINF90006 Internet Software Development Principles	Not offered 2015	12.50
ISYS90043 Enterprise Applications & Architectures	Semester 1, Semester 2	12.50
COMP90049 Knowledge Technologies	Semester 1, Semester 2	12.50

GROUP C (Project Management) Subjects:

12.5 points

Subject	Study Period Commencement:	Credit Points:
SWEN90003 IT Project Management	Not offered 2015	12.50
ISYS90050 IT Project and Change Management	June, Semester 1, Semester 2	12.50
ISYS90052 Managing Large Projects	Semester 2	12.50

GROUP D (Advanced Electives):

Maximum of 67.5 points (dependant of points taken in Group B)
Students may take any level-9 subjects offered by the Department of Computing and Information Systems to make up the balance of their course.

Entry Requirements:

There is no further entry into this course.

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). 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 OR # 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. **Language Requirements** Please check the **University English language requirements (http://futurestudents.unimelb.edu.au/admissions/entry-requirements/language-requirements)** The **Melbourne School of Engineering's English Language alternative (http://futurestudents.unimelb.edu.au/admissions/entry-requirements/language-requirements/graduate-toefl-ielts)** may affect the duration and cost of your course
Core Participation Requirements:	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry. It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: http://services.unimelb.edu.au/disability
Graduate Attributes:	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 innovationAbility to manage information and documentation
Professional Accreditation:	The program is accredited by the Australian Computer Society (ACS).
Generic Skills:	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, students should have: # Strong analytical skills # The ability to lead teams and projects # 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".
Links to further information:	http://www.cis.unimelb.edu.au
Notes:	The program is accredited by the Australian Computer Society (ACS).