384AA Bachelor of Computer Science (Honours)

Year and Campus:	2010 - Parkville
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Level:	Undergraduate
Duration & Credit Points:	100 credit points taken over 12 months full time.
Coordinator:	Andrian Pearce
Contact:	Melbourne School of Engineering Building 173, Grattan Street The University of Melbourne VIC 3010 Australia General telephone enquiries + 61 3 8344 6703 + 61 3 8344 6507 Facsimiles + 61 3 9349 2182 + 61 3 8344 7707 Email **eng-info@unimelb.edu.au (mailto:eng-info@unimelb.edu.au)**
Course Overview:	The BCS (Honours) program is designed to: # provide an introduction to the process and practice of research in computer science; # enable the acquisition of specialised research skills; # encourage the development of the ability to think critically and independently; # consolidate and extend the student's understanding of a range of aspects of the disciplines of computer science and software engineering; and # improve oral and written communication skills.
Objectives:	-
Course Structure & Available Subjects:	A two-semester program on a full-time basis comprising 100 points as follows: Honours thesis component (37.5 points, normally 12.5 points in first semester of enrolment and 25 points in second semester of enrolment): # 433-401 Computer Science Research Project, or equivalent Research Project subjects totalling 37.5 points Advanced coursework subjects (62.5 points): Five subjects totalling 62.5 points, consisting of any study-level 0 or study-level 6 subjects taught by the Department, with the exception of the subjects listed below. Students may also enrol in up to 25 points of subjects at the honours or masters level of study in cognate areas from outside the Department, subject to approval being granted by the Honours Coordinator.
Majors/Minors/ Specialisations	
Subject Options:	<table><tr><th>Subject</th><th>Study Period Commencement:</th><th>Credit Points:</th></tr><tr><td>COMP40001 Computer Science Research Project</td><td>Semester 1, Semester 2</td><td>37.50</td></tr></table> Students are NOT allowed to enrol in the following project-based subjects as part of the 62.5 points of Advanced coursework # 433-659 Distributed Computing Project # 433-690 IT Minor Research Project # 433-699 Minor Research Project # 433-440 Advanced Software Engineering Project

433-603 Masters Software Engineering Project
433-604 Masters Advanced Software Engineering Project"

600 level subjects have been listed below(please note subjects may not be offered every year) :

Subject	Study Period Commencement:	Credit Points:
433-609 Software Design and Architecture	Not offered 2010	12.50
COMP90042 Web Search and Text Analysis	Semester 1	12.50
COMP90043 Cryptography and Security	Semester 2	12.50
SWEN90002 Engineering for Internet Applications	Semester 1	12.50
COMP90010 Web Technologies and Applications	Semester 1	12.50
COMP90044 Research Methods	Semester 1	12.50
COMP90045 Programming Language Implementation	Semester 1	12.50
COMP90046 Constraint Programming	Semester 2	12.50
SWEN90003 IT Project Management	Semester 1	12.50
COMP90014 Algorithms for Functional Genomics	Semester 2	12.50
COMP90016 Computational Genomics	Semester 1	12.50
COMP90015 Distributed Systems	Semester 1, Semester 2	12.50
COMP90018 Mobile Computing Systems Programming	Semester 2	12.50
433-654 Sensor Networks and Applications	Not offered 2010	12.50
COMP90020 Distributed Algorithms	Semester 2	12.50
COMP90025 Networks & Parallel Processing	Semester 2	12.50
COMP90024 Cluster and Grid Computing	Semester 1	12.50
433-679 Evolutionary and Neural Computation	Not offered 2010	
COMP90048 Declarative Programming	Semester 2	12.50
COMP90049 Knowledge Technologies	Semester 1	12.50
SWEN90009 Software Requirements Analysis	Semester 2	12.50

Students may also enrol in up to 25 points of subjects at the honours or masters level of study in cognate areas from outside

the Department, subject to approval being granted by the Honours Coordinator.

Assessment

Hurdle assessment requirements

Students enrolled in the BCS (Honours) must pass at least 100 points of approved subjects, including 433-401 Computer Science Research Project, and must have a weighted average mark (calculated over the best 100 points of such approved subjects, but always including 433-401 Computer Science Research Project) of at least 65 per cent.
Students enrolled in the BCS (Honours) are also expected to have a satisfactory level of attendance at departmental seminars.
Students will be advised of hurdle requirements for the individual coursework subjects at the commencement of each subject.

Components of assessment

	The BCS (Honours) program comprises a research project subject and five advanced coursework subjects. These subjects with their relative weightings are as follows: # 433-401 Computer Science Research Project = 37.5% # Advanced Coursework subjects, five at 12.5 points each = 62.5% The final honours grade is the weighted average mark over the 100 points included in these two components. Students who complete more than 62.5 points of advanced coursework will have their final honours grade calculated as their weighted average mark over the 100 points of study obtained by including their best 62.5 points of advanced coursework.
Entry Requirements:	To enter the BCS (Honours), students must have: # completed a BCS or equivalent program as assessed by the department; # passed at least 25 points of 100-level mathematics or statistics; and # attained a final-year average mark of at least 65. Students should also note that study of mathematics or statistics at the second-year level is strongly recommended. Students from other institutions and other backgrounds should contact the honours coordinator to determine their eligibility for entry to the BCS (Honours) degree.
Core Participation Requirements:	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/
Graduate Attributes:	The Melbourne School of Engineering has mapped the University of Melbourne graduate attributes with Engineers Australia graduate attributes and Melbourne School of Engineering graduate attributes.