Computer Science

Year and Campus:	2016
Coordinator:	Associate Professor Tim Baldwin
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Overview:	A Computer Science major will provide students with the knowledge and skills to enter a career in the computer industry or in research. Students will learn how to design, analyse, and implement complex systems involving computer networks, databases, and web services. Graduates will have advanced skills in programming, problem solving, and algorithm design and implementation. They will be prepared for the workplace by participating in several realistic programming exercises, by participating in a team project, and by presenting the results of their work in oral and written form. Graduates will also be able to progress to research higher degrees in Computer Science.
Learning Outcomes:	The objective of the computer science major is to contribute to the academic preparation of graduates who embody the University of Melbourne graduate attributes, as well as additional attributes more specific to the Bachelor of Science.
Structure & Available Subjects:	Completion of 50 points of study at Level 3.
Subject Options:	Both of:

Subject	Study Period Commencement:	Credit Points:
COMP30017 Operating Systems and Network Services	Not offered 2016	12.50
COMP30016 Computer Science Project	Not offered 2016	12.50

Plus two of the following:

Subject	Study Period Commencement:	Credit Points:
COMP30021 Theoretical Computer Science	Not offered 2016	12.50
COMP30019 Graphics and Interaction	Semester 2	12.50
COMP30018 Knowledge Technologies	Semester 1, Semester 2	12.50
COMP30020 Declarative Programming	Semester 2	12.50
SWEN90006 Software Testing and Reliability	Semester 2	12.50
SWEN30006 Software Modelling and Design	Semester 1, Semester 2	12.50
ISYS90050 IT Project and Change Management	June, Semester 1, Semester 2	12.50

Notes:	This major is available to new generation Bachelor of Science students (B-SCI). It is also available to Bachelor of Science students who commenced prior to 2008. The published structure of this major includes subjects available in the current year. Pre-2008 Bachelor of Science students who completed one or more Level 3 science subjects towards this major prior to 2010 should contact the Science Student Centre for advice on appropriate subjects to complete this major. This major will not be offered after 2013. From 2014 it will be replaced by a new major, the Computing and Software Systems major. Students commencing their Bachelor of Science in 2012 and beyond are advised to plan to take the Computing and Software Systems major.