Computer Science

Year and Campus:	2015
Coordinator:	Dr Aaron Harwood
Contact:	**Melbourne Graduate School of Science** Faculty of Science The University of Melbourne Victoria 3010 Tel: + 61 3 8344 6128 Fax: +61 3 8344 3351 Web: **http://graduate.science.unimelb.edu.au/ (http://graduate.science.unimelb.edu.au/)**
Overview:	The Graduate Diploma allows students who have completed an undergraduate degree to re-focus or expand their body of knowledge by completing the requirement of one of the undergraduate majors (or equivalent) in the Bachelor of Science not already completed. The Graduate Diploma provides a pathway to the Master of Science Streams.
Learning Outcomes:	Students who complete the graduate diploma should: # Demonstrate an independent approach to knowledge that uses rigorous methods of inquiry and appropriate theories and methodologies that are applied with intellectual honesty and a respect for ethical values; # Apply critical and analytical skills and methods to the identification and resolution of problems # Act as informed and critically discriminating participants within the community of scholars, as citizens and in the work force; # Communicate effectively; # Commit to continuous learning; # Be proficient in the use of appropriate modern technologies, such as the computer and other information technology systems, for the acquisition, processing and interpretation of data.
Structure & Available Subjects:	Completion of 100 points: # 50 points of study at Level 3; # 50 points of study at Level 2 or above.
Subject Options:	***Subject prerequisites:*** *at least 25 points of level 1 or above Computer Science subjects, or equivalent and 25 points of level 1 or above mathematics or statistics subjects, or equivalent.*

Level 2

Students should select 50 points of level 2 options to meet the pre-requisites for their level 3 choices.

Students must take:

Subject	Study Period Commencement:	Credit Points:
INFO20003 Database Systems	Semester 2	12.50

Plus one of:

Subject	Study Period Commencement:	Credit Points:
SWEN20003 Object Oriented Software Development	Semester 2	12.50
COMP90041 Programming and Software Development	Semester 1, Semester 2	12.50

Plus one of:

Subject	Study Period Commencement:	Credit Points:
COMP20003 Algorithms and Data Structures	Semester 2	12.50
COMP20007 Design of Algorithms	Semester 1	12.50
COMP90038 Algorithms and Complexity	Semester 1, Semester 2	12.50

Level 3

All three of:

Subject	Study Period Commencement:	Credit Points:
COMP30023 Computer Systems	Semester 1	12.50
COMP30026 Models of Computation	Semester 2	12.50
SWEN30006 Software Modelling and Design	Semester 1, Semester 2	12.50

Plus two of:

Subject	Study Period Commencement:	Credit Points:
COMP30019 Graphics and Interaction	Semester 2	12.50
COMP30022 IT Project	Semester 2	12.50
COMP30024 Artificial Intelligence	Semester 1	12.50
INFO30004 Usability Engineering	Semester 1	12.50
INFO30005 Web Information Technologies	Semester 1	12.50

Links to further information:	http://graduate.science.unimelb.edu.au
Related Course(s):	Graduate Diploma in Science