

Computer Science

Year and Campus:	2016																					
Coordinator:	Dr Aaron Harwood																					
Contact:	aharwood@unimelb.edu.au (mailto:aharwood@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:	<p>Students who complete the graduate diploma should:</p> <ul style="list-style-type: none"> # 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:	<p>Completion of 125 points:</p> <ul style="list-style-type: none"> # 50 points of study at Level 2 or above; # 50 points of study at Level 3; # 25 point of study at Level 9 																					
Subject Options:	<p>Subject prerequisites: For stream specific requirements please click here (http://science.unimelb.edu.au/available-stream-requirements%20) .</p> <p>Level 2</p> <p>Students should select 37.5 points of level 2 options to meet the pre-requisites for their level 3 choices.</p> <p>Students must take:</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>INFO20003 Database Systems</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table> <p>Plus one of:</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>SWEN20003 Object Oriented Software Development</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>COMP90041 Programming and Software Development</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> </tbody> </table> <p>Plus one of:</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>COMP20003 Algorithms and Data Structures</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	INFO20003 Database Systems	Semester 2	12.50	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	Subject	Study Period Commencement:	Credit Points:	COMP20003 Algorithms and Data Structures	Semester 2	12.50
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COMP90038 Algorithms and Complexity	Semester 1, Semester 2	12.50
COMP20007 Design of Algorithms	Semester 1	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:
COMP30022 IT Project	Semester 2	12.50
COMP30024 Artificial Intelligence	Semester 1	12.50
COMP30019 Graphics and Interaction	Semester 2	12.50
INFO30004 Usability Engineering	Semester 1	12.50
INFO30005 Web Information Technologies	Semester 1	12.50

Level 9Plus two level 9 subjects selected from listed discipline subjects in the **Master of Science (Computer Science)** ([../view/current/mc-scicmp](http://handbook.unimelb.edu.au/view/current/mc-scicmp)) program

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