

COMP90041 Programming and Software Development

Credit Points:	12.50						
Level:	9 (Graduate/Postgraduate)						
Dates & Locations:	This subject is not offered in 2013.						
Time Commitment:	Contact Hours: 36 hours, comprising of one 1-hour lecture and one 2-hour lab per week Total Time Commitment: 120 hours						
Prerequisites:	None						
Corequisites:	None						
Recommended Background Knowledge:	None						
Non Allowed Subjects:	<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>Not offered 2013</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	SWEN20003 Object Oriented Software Development	Not offered 2013	12.50
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SWEN20003 Object Oriented Software Development	Not offered 2013	12.50					
Core Participation Requirements:	<p><p>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.</p> <p>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</p></p>						
Contact:	email: schachte@unimelb.edu.au (https://mce_host/faces/htdocs/%20schachte@unimelb.edu.au)						
Subject Overview:	The aims for this subject is for students to develop an understanding of approaches to solving moderately complex problems with computers, and to be able to demonstrate proficiency in designing and writing programs using a programming language. The programming language used is Java.						
Objectives:	<p>On successful completion students will:</p> <ul style="list-style-type: none"> # Apply the concepts of object-oriented design to the solution of computational problems. # Read and understand a Java program of small to medium complexity. # Write a Java program of small to medium complexity, which contains a number of classes with console user interface. # Understand basic concepts of computer science: data structures and algorithms. # Understand the process and methods of software design and implementation using Java programming language. 						
Assessment:	Project assignments will be done during the semester and are expected to take approximately 60 hours in total (40%). There are three projects. The first one is due approximately in the third week and is worth 5% marks. The second project is due around mid-semester and is worth 15% marks. The third project is due at the end of the semester and is worth 25% marks. One 2-hour end-of-semester examination (60%). To pass the subject, students must obtain at least: 50% overall. 20/40 in the project assignments. 25/60 in the end-of-semester written examination. ILO 1, 2, 4 and 5 are addressed in the lectures, laboratory exercises, project assignments and the end-of-semester examination. ILO 2 and 3 are addressed in the laboratory exercises and project assignment.						

Prescribed Texts:	None
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	<p>On successful completion students should:</p> <ul style="list-style-type: none"> # Understand major concepts of object-oriented programming and design including classes, objects, encapsulation, inheritance and polymorphism. # Design, implement and test a program for small and medium size problems in the Java programming language.
Related Course(s):	Graduate Certificate in Information Systems Master of Engineering in Distributed Computing Master of Information Systems Master of Information Technology Master of Information Technology Master of Information Technology Master of Philosophy - Engineering Master of Science (Bioinformatics) Ph.D.- Engineering Postgraduate Certificate in Engineering
Related Majors/Minors/ Specialisations:	Master of Engineering (Mechatronics) Master of Engineering (Software)