COMP90020 Distributed Algorithms

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	This subject is not offered in 2011.
Time Commitment:	Contact Hours: 24 hours of lectures, 12 hours of tutorial/laboratory classes; Non-contact time commitment: 84 hours Total Time Commitment: Not available
Prerequisites:	The prerequisites are: **Subject** | **Study Period Commencement:** | **Credit Points:** COMP90015 Distributed Systems | Not offered 2011 | 12.50
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
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/
Contact:	Dr Adrian Pearce email: **adrianrp@unimelb.edu.au (mailto:adrianrp@unimelb.edu.au)**
Subject Overview:	Topics covered include: synchronous and asynchronous network algorithms that address resource allocation, communication, consensus among distributed processes, distributed data structures, data consistency, deadlock detection, leader election, and global snapshots issues in distributed systems.
Objectives:	On successful completion students should : # Have developed an understanding of distributed algorithm design # Be able to implement and analyse distributed algorithms # Be able to undertake problem identification, formulation and solution
Assessment:	Assignments on devising, analysing, and applying algorithms to solve real world problems during semester (40%) and a 3-hour written examination (60%). All components must be completed satisfactorily to pass the subject.
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:	On completion of this subject students should: # Have a capacity for independent critical thought, rational inquiry and self-directed learning; and # Have a profound respect for truth and intellectual integrity, and for the ethics of scholarship

Related Majors/Minors/ Specialisations:	Master of Engineering (Software)