433-645 Software System Security

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	This subject is not offered in 2009.
Time Commitment:	Contact Hours: 3 hours per week; Non-contact time commitment: 84 hours Total Time Commitment: Not available
Prerequisites:	None
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 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. 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
Subject Overview:	Unix administration and system security; NT security; network security and firewalls; physical security of computer systems; computer forensics: courts and processes; case studies.
Objectives:	On successful completion, students should: # be able to identify issues and objectives in computer systems and networks; # be able to apply various security mechanisms derived from cryptography to computers and computer networks; # be able to explain the protocols which ensure security in contemporary networked computer systems; # understand the interaction between underlying theory, such as cryptography, and working computer security infrastructure; # be able to undertake problem identification, formulation and solution; # 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.
Assessment:	A 1-hour mid-semester test (25%), two assignments each of which involves solving problems in computer security and results in a report of around 6-pages in length (25%) and one project during semester resulting in a written report of approximately 15-pages (50%).
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: # be able to undertake problem identification, formulation and solution.
Related Course(s):	Master of Engineering in Distributed Computing Master of Information Technology Master of Software Systems Engineering