SINF30003 Information Systems Architecture

Credit Points:	12.50
Level:	3 (Undergraduate)
Dates & Locations:	2010, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus. Lectures and tutorial/practical sessions.
Time Commitment:	Contact Hours: 2 x one hour lectures and up to 2 hours of tutorial/practical sessions per week, plus up to 6 hours per week of additional study and group work Total Time Commitment: Estimated total time commitment of 120 hours

Prerequisites:

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Subject	Study Period Commencement:	Credit Points
SINF20004 Systems Analysis and Design	Semester 2	12.50

Plus one of

Subject	Study Period Commencement:	Credit Points
SINF20002 Telecommunications Concepts	Semester 2	12.50

433-254 Software Design (prior to2009)

Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	Students cannot gain credit for both this subject and 615-347 Business Systems Design (prior to 2007)
Core Participation Requirements:	It is University policy to take all reasonable steps to minimise the impact of disability upon academic study and reasonable steps will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact upon their active and safe participation in a subject are encouraged to discuss this with the relevant subject coordinator and the Disability Liaison Unit.
Coordinator:	Dr Sean Maynard
Contact:	Email: **sean.maynard@unimelb.edu.au (mailto:sean.maynard@unimelb.edu.au)**
Subject Overview:	Modern information systems development places a premium on the separation of the logical application and information architecture from implementation detail. In this subject, we study the principles of high-level design and architecture of distributed information systems. We focus on current architectures that use XML and web services in development of a new generation of e-commerce applications. Topics covered include component-based design, client-server and n-tier architectures, web applications design and application development frameworks.
Objectives:	At the completion of this subject, students should: # understand the issues involved in the architecture and design of complex inter- and intra-organisational systems; # develop the skills to produce high-level models and designs for complex distributed systems; # gain exposure to modern application development frameworks such as.NET and J2EE;

	# understand the rationale behind emerging distributed systems technologies such as J2EE, XML, Web Services and.NET; # understand the complexities underlying enterprise level distributed systems by designing and architecting for reliability, scalability and security and; # develop an understanding of business processes and how these are being matched to underlying e-Commerce applications and services.
Assessment:	Ongoing assessment of individual (20%) and group (20%) project work throughout the semester; a 2-hour written examination in the examination period (60%). Satisfactory completion of both project work and the examination is necessary to pass the subject.
Prescribed Texts:	None
Breadth Options:	This subject potentially can be taken as a breadth subject component for the following courses: # **Bachelor of Arts (https://handbook.unimelb.edu.au/view/2010/B-ARTS)** # **Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2010/B-COM)** # **Bachelor of Environments (https://handbook.unimelb.edu.au/view/2010/B-ENVS)** # **Bachelor of Music (https://handbook.unimelb.edu.au/view/2010/B-MUS)** You should visit **learn more about breadth subjects (http://breadth.unimelb.edu.au/ breadth/info/index.html)** and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Notes:	This subject is available for science credit to students enrolled in the BSc (both pre-2008 and new degrees), BASc or a combined BSc course (except for the BSc/ BIS).
Related Course(s):	Bachelor of Information Systems Bachelor of Science and Bachelor of Information Systems