SWEN90009 Software Requirements Analysis

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 two 1-hour lectures and one 1-hour workshop per week Total Time Commitment: 120 hours
Prerequisites:	The following subjects may be taken concurrently: **Subject** / **Study Period Commencement:** / **Credit Points:** SWEN30006 Software Modelling and Design / Not offered 2013 / 12.50 ISYS90050 IT Project and Change Management / Not offered 2013 / 12.50
Corequisites:	None
Recommended Background Knowledge:	433-606 Modelling Complex Software Systems
Non Allowed Subjects:	Students cannot enrol in and gain credit for this subject and: 433-646 Requirements Engineering 433-446 Requirements Engineering
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
Contact:	Email: **rachelle.bosua@unimelb.edu.au (mailto:rachelle.bosua@unimelb.edu.au)**
Subject Overview:	The first step in the development of a any non-trivial software system is an analysis of the problem domain in order to formulate a set of ‘requirements’. In this subject students will explore explore the aims, principles, processes and techniques involved in business and domain analysis and the formulation of requirements. Topics covered will include: an understanding of the domain analysis problem; business and domain analysis; an exploration of methods for eliciting, analysing, specifying and validating requirements; requirements metrics; analysis techniques for ‘special domains’ drawn from a selection of enterprise systems, safety critical systems, usability and security.
Objectives:	Please refer to Overview.
Assessment:	Project work during semester, expected to take about 36 hours (50%) 3-hour end-of-semester written examination (50%) Hurdle Requirement: To pass the subject, students must obtain 25/50 in project work And 25/50 in the written examination
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 subjects the student should have the following skills: # Ability to apply knowledge of science and engineering fundamentals # Ability to undertake problem identification, formulation, and solution # Ability to utilise a systems approach to complex problems and to design and operational performance # Understanding of the business environment # Ability to communicate effectively both with the engineering team and with the community at large # Ability to manage information and documentation # Capacity for creativity and innovation # Understanding of professional and ethical responsibilities, and commitment to them # Ability to function effectively as an individual and in multidisciplinary and multicultural teams, as a team leader or manager as well as an effective team member
Related Course(s):	Master of Philosophy - Engineering Ph.D.- Engineering
Related Majors/Minors/ Specialisations:	B-ENG Software Engineering stream Computer Science Master of Engineering (Software)