SWEN90008 Software Processes and Management

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2010, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 24 one-hour lectures (two per week) and 12 one-hour workshops (one per week) Total Time Commitment: 120 hours
Prerequisites:	The prerequisites are: 433-294 Object Oriented Software Development OR 433-520 Programming and Software Development OR 433-254 Software Design 433-298 Algorithms and Data Structures OR 433-521 Algorithms and Complexity or 433-253 Algorithms and Data Structures
Corequisites:	433-320 Software Modelling and Design
Recommended Background Knowledge:	None
Non Allowed Subjects:	433-341 Software Engineering Process & Practice
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/
Coordinator:	Dr Edmund Kazmierczak, Dr Timothy Miller
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Subject Overview:	The aim of this subject is to introduce students to the software engineering principles, processes, tools and techniques for analysing and managing software projects. The subject is the one of the two SE foundational subjects and looks at methods and tools for analysing, planning, and managing complex software projects. Topics covered include: software engineering processes; system requirements analysis; project management; planning and scheduling; estimation and metrics; quality assurance; risk; configuration management; individuals and teams, and project management tools.
Objectives:	On completion of this subjects students should be able to: # Analyse the requirements for a project; # Select appropriate software engineering processes and practices for specific software engineering projects; # Manage team dynamics and professional communication;

	# Plan and manage projects; # Identify risks and modify project activities to minimize them, and # Manage project activities to ensure a quality product.
Assessment:	Project work during semester, expected to take about 48 hours (50%); and a 3-hour end-of-semester written examination (50%). To pass the subject, students must obtain at least 50% overall, 25/50 in project work, and 25/50 in the written examination.
Prescribed Texts:	TBA
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
Generic Skills:	On completion of this subject students should have developed the following generic skills: # In-depth technical competence in the analysis, and management of software projects; # The ability to function effectively as an individual or in a multidisciplinary and multi-cultural team as a leader, manager or effective team-member; # The ability to undertake lifelong learning in the area of software project management and the ability to do so.
Related Course(s):	Bachelor of Engineering Bachelor of Science
Related Majors/Minors/ Specialisations:	Computer Science Computer Science Software Systems