436-105 Engineering Communications

Credit Points:	12.500
Level:	Undergraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Summer Term, - Taught on campus.
Time Commitment:	Contact Hours: Seventeen hours of lectures, seven hours of tutorials, 14 hours of project work and 10 hours practice classes 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
Coordinator:	Mr S Saber Samandari
Subject Overview:	Students successfully completing this unit should have the ability to construct 2-D geometric models of 3-D objects and phenomena, communicate their descriptions in standard drafting format and read and understand drawings prepared in accordance with Australian Standards. They should be proficient in visualising 3-D objects and phenomena; in applying analytical and computer techniques in geometrical modelling; in graphic communication; have developed effective study skills and learning practices; and have had practice at oral and written communication of technical material. Topics covered include projection systems, 3-D geometry principal and auxiliary views; sketching, computational geometry and computer graphics; and written technical communication and oral presentation.
Assessment:	One 3-hour end of semester examination (50%). A 10-page project (35%); tutorial sessions (10%) for engineering graphics and oral presentations and assignments for other engineering communication skills (5%) due throughout the semester.
Prescribed Texts:	None
Recommended Texts:	Information Not Available
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:	# ability to apply knowledge of basic science and engineering fundamentals # ability to communicate effectively, not only with engineers but also with the community at large

	# ability to undertake problem identification, formulation and solution # ability to utilise a systems approach to design and operational performance # ability to function effectively as an individual and in multi-disciplinary and multi-cultural teams, with the capacity to be a leader or manager as well as an effective team member # understanding of the principles of sustainable design and development # understanding of professional and ethical responsibilities and commitment to them # expectation of the need to undertake lifelong learning, capacity to do so # capacity for independent critical thought, rational inquiry and self-directed learning # intellectual curiosity and creativity, including understanding of the philosophical and methodological bases of research activity # openness to new ideas and unconventional critiques of received wisdom # profound respect for truth and intellectual integrity, and for the ethics of scholarship # international awareness and openness to the world, based on understanding and appreciation of social and cultural diversity and respect for individual human rights and dignity
Notes:	Students may only gain credit for one of 436-105 or 800-001 Engineering Systems Design 1