

411-443 Chemical Engineering Management

Credit Points:	12.50
Level:	4 (Undergraduate)
Dates & Locations:	2009, This subject commences in the following study period/s: Semester 1, - Taught on campus.
Time Commitment:	Contact Hours: Forty-eight hours. Total Time Commitment: Not available
Prerequisites:	None
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	<p><p>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.</p> <p>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</p></p>
Coordinator:	Mr Michael Parkinson
Subject Overview:	<p>For long term sustainability, a company must focus on it's Triple Bottom Line (Financial performance, Environmental performance, and a Sociological performance). The objective of this course is to expose students to the key parameters needed to set and manage performance criteria in each of those areas. Students successfully completing this unit will have developed an appreciation of project development and the profitability analysis of projects, environmental management and sustainable development, the management of safety, and other managerial issues affecting the engineer.</p> <p>This subject will include the following topics:</p> <ul style="list-style-type: none"> # Financial performance: The stages of a Project; How to carryout a Feasibility Study; Revenue, Capital & Operating Cost Forecasting; Simple Accounting; Profitability Analysis and Applications; Project Management & Networks. # Environmental performance: Sustainable Development: Global Warming & Emission control; Water Management. # Sociological performance: Occupational Health & Safety (incl. Safety Management, P&IDs & Hazop); Ethical issues facing the engineer; Industrial Relations; Product Development & Intellectual Property; Legal issues facing the chemical engineer.
Objectives:	<p>On completion of this subject students should be able to:</p> <ul style="list-style-type: none"> · explain the professional and ethical responsibilities of an engineer; · discuss a broad range of managerial issues affecting the engineer · utilize the principles of sustainable design and development and of safety management to evaluate the feasibility of engineering proposals · complete a profitability analysis of an engineering project
Assessment:	An assignment not exceeding a total of 3000 words plus accompanying tables and calculation (20%) and a final examination of three hours (80%) of the final mark.
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:	<p>The subject will enhance the following generic skills:</p> <ul style="list-style-type: none"># An understanding of the professional and ethical responsibilities of an engineer;# An understanding of the principles of sustainable design and development;# The ability and self-confidence to comprehend complex concepts, to express them lucidly and to confront unfamiliar problems.
Related Course(s):	Bachelor of Engineering (Biomedical)Biocellular Graduate Diploma in Engineering (Engineering Management)