

CHEN90020 Chemical Engineering Management

Credit Points:	12.5															
Level:	9 (Graduate/Postgraduate)															
Dates & Locations:	2015, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.															
Time Commitment:	Contact Hours: An average of 3 hours of lectures per week + 1 x one hour tutorial per week Total Time Commitment: Estimated 200 hours															
Prerequisites:	<p>Students must have completed the following subjects prior to enrolling in this subject: Either:</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>CHEN20008 Chemical Process Analysis 2</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table> <p>Or BOTH OF:</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>CHEN20011 Chemical Process Analysis</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>CHEN20010 Material and Energy Balances</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	CHEN20008 Chemical Process Analysis 2	Semester 2	12.50	Subject	Study Period Commencement:	Credit Points:	CHEN20011 Chemical Process Analysis	Semester 2	12.50	CHEN20010 Material and Energy Balances	Semester 1, Semester 2	12.50
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CHEN20008 Chemical Process Analysis 2	Semester 2	12.50														
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CHEN20011 Chemical Process Analysis	Semester 2	12.50														
CHEN20010 Material and Energy Balances	Semester 1, Semester 2	12.50														
Corequisites:	None															
Recommended Background Knowledge:	None															
Non Allowed Subjects:	CHEN40006 Chemical Engineering Management CHEN30013 Chemical Engineering Management															
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 Kathryn Mumford															
Contact:	Email: mumfordk@unimelb.edu.au (mailto:mumfordk@unimelb.edu.au)															
Subject Overview:	<p>AIMS</p> <p>For long term sustainability, a company must focus on its Triple Bottom Line (Financial performance, Environmental performance and Sociological performance). This subject will cover the key parameters needed to manage performance in each of these areas for both new projects and redevelopments.</p> <p>This is the key chemical engineering economics subject which introduces students to process plant economics. It is a key subject that is required to be mastered before the capstone Design Project can be attempted.</p>															

	<p>INDICATIVE CONTENT</p> <p>This subject will include the following topics:</p> <ul style="list-style-type: none"> # Project Management: The stages of a project; how to conduct a feasibility study; team building; communication; network analysis # Financial performance: Revenue, capital and operating cost forecasting; simple accounting; profitability analysis and applications # Environmental performance: Sustainable development; global warming & emission control; water management # Sociological performance: Safety Management; ethics; intellectual property etc.
Learning Outcomes:	<p>INTENDED LEARNING OUTCOMES (ILO)</p> <p>On completion of this subject the student is expected to:</p> <ol style="list-style-type: none"> 1 Generate feasibility studies for new projects and re-developments incorporating economic, environmental and social impacts 2 Demonstrate an ability to utilise contemporary project management skills when undertaking large projects 3 Understand the importance of other aspects of being a practising engineer i.e. safety, legal and ethical requirements.
Assessment:	<p>Short quizzes and assignments, not exceeding a total of 3000 words plus accompanying tables and calculations (40%). An overall time commitment of 50-55 hours. Due throughout the semester. Intended Learning Outcomes (ILOs) 1 to 3 will be assessed in the assignment A three hour exam (60%). ILOs 1 to 3 will be assessed in the examination. Held during the end-of-semester exam period.</p>
Prescribed Texts:	None
Recommended 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:	<ul style="list-style-type: none"> # Strong reasoning and analytical skills, particularly when presented with complex and unfamiliar problems # Strong communication skills, both verbal and written forms # Skills to work as an efficient and effective team member.
Notes:	<p>LEARNING AND TEACHING METHODS</p> <p>The subject will be delivered through a combination of lectures and tutorials.</p> <p>INDICATIVE KEY LEARNING RESOURCES</p> <p>Students will have access to lecture notes and lecture slides.</p> <p>CAREERS / INDUSTRY LINKS</p> <p>Speakers from industry are regular contributors to this subject.</p>
Related Course(s):	Bachelor of Engineering (Biomedical)Biocellular
Related Majors/Minors/Specialisations:	<p>B-ENG Chemical Engineering stream</p> <p>B-ENG Chemical and Biomolecular Engineering stream</p> <p>Master of Engineering (Biochemical)</p> <p>Master of Engineering (Chemical)</p>