

955AC Bachelor of Engineering (Chemical) and Bachelor of Commerce

Year and Campus:	2013
CRICOS Code:	009724B
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Level:	Undergraduate
Duration & Credit Points:	500 credit points taken over 60 months
Coordinator:	Professor George Franks
Contact:	<p>Melbourne School of Engineering Ground Floor, Old Engineering (Building 173)</p> <p>Current students: Email: 13MELB@unimelb.edu.au (mailto:13MELB@unimelb.edu.au) Phone: 13MELB (13 6352) +61 3 9035 5511</p> <p>Prospective students: Email: eng-info@unimelb.edu.au (mailto:eng-info@unimelb.edu.au) Phone +61 3 8344 6944</p>
Course Overview:	<p>THE COURSE STRUCTURE BELOW ONLY APPLIES TO RE-ENROLLING STUDENTS WHO COMMENCED THEIR STUDIES PRIOR TO 2008</p> <p>Chemical engineers invent, design and implement processes through which raw materials are converted into valuable products such as petrol, power and toothpaste. This specialisation promotes development of practical, laboratory-based skills, combined with expertise in computing and simulation. There is a strong focus on the sustainable development of chemical processes and products. Career opportunities in the field are extensive and encompass the petrochemical, mining, food, pharmaceutical or chemical industries.</p>
Objectives:	<p>The course objectives are that graduates will have acquired:</p> <ul style="list-style-type: none"> # A broad knowledge of science and engineering in several disciplines including a sound fundamental understanding of scientific and engineering principles and methods # An in-depth knowledge and skills within specified areas of engineering and science # The appropriate analytical, problem-solving and design skills # Capacity to apply practical skills towards the development of mathematical and computer-based solutions of problems # Learning skills and a knowledge base to enable them to readily accommodate future changes in technology # Verbal and written communication skills that enable them to communicate effectively in the context of defining and solving problems # An understanding of the basic principles underlying the management of physical, human and financial resources # Skills, personal attributes and depth of knowledge which equip them for positions of leadership in basic and applied research, engineering and management of technology-intensive enterprises # An appreciation of the roles and responsibilities of engineers and scientists in society # The educational and professional standards of the professional institutions with which the faculties' courses are accredited
Course Structure & Available Subjects:	<p><i>The last intake for this course was in 2007. Students still enrolled in this course need to seek specific personalised advice from a Course Adviser on the requirements necessary to complete the degree.</i></p> <p>The combined degree of Bachelor of Engineering (Chemical)/Bachelor of Commerce requires a total of 500 points over five years. Students are required to complete 300 points of Engineering subjects and 200 points of Commerce subjects. Students should consult the Commerce</p>

	Student Centre (http://www.csc.unimelb.edu.au/) for advice regarding Commerce subject selection.																				
Majors/Minors/ Specialisations	None																				
Subject Options:	Final Year Subjects <table border="1"><thead><tr><th>Subject</th><th>Study Period Commencement:</th><th>Credit Points:</th></tr></thead><tbody><tr><td>CHEN90018 Particle Mechanics and Processing</td><td>Not offered 2013</td><td>12.50</td></tr><tr><td>CHEN90019 Advanced Heat & Mass Transport Processes</td><td>Not offered 2013</td><td>12.50</td></tr><tr><td>CHEN90012 Process Equipment Design</td><td>Not offered 2013</td><td>12.50</td></tr><tr><td>CHEN90022 Chemical Engineering Design Project</td><td>Not offered 2013</td><td>25</td></tr><tr><td>CHEN90026 Chemical Engineering Minor Research Project</td><td>Not offered 2013</td><td>12.50</td></tr></tbody></table> Commerce subjects as required (25 points)			Subject	Study Period Commencement:	Credit Points:	CHEN90018 Particle Mechanics and Processing	Not offered 2013	12.50	CHEN90019 Advanced Heat & Mass Transport Processes	Not offered 2013	12.50	CHEN90012 Process Equipment Design	Not offered 2013	12.50	CHEN90022 Chemical Engineering Design Project	Not offered 2013	25	CHEN90026 Chemical Engineering Minor Research Project	Not offered 2013	12.50
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Entry Requirements:	There is no further entry into this course.																				
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 Univeristy is dedicated to provide support to those whith 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																				
Further Study:	On completion of a Bachelor of Engineering, students may choose to apply for candidature in a Masters by Research or PhD degree. They may also apply to undertake a one year Advanced Masters by Coursework degree.																				
Graduate Attributes:	The Bachelor of Engineering is a professional degree. Graduate can obtain professional recognition by joining Engineers Australia who have accredited these programs. The Bachelor of Engineering also delivers on the University graduate attributes - http://www.unimelb.edu.au/about/attributes.html																				
Professional Accreditation:	The Bachelor of Engineering is accredited with Engineers Australia																				
Generic Skills:	Upon completion of this course the student should have developed their: <ul style="list-style-type: none"># 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# In-depth technical competence in at least one engineering discipline# 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 multicultural teams, with the capacity to be a leader or manager as well as an effective team member# Understanding of the social, cultural, global and environmental responsibilities of the professional engineer, and the need for sustainable development# Understanding of the principles of sustainable design and development# Understanding of and commitment to professional and ethical responsibilities# Expectation and capacity to undertake life-long learning																				