

985AV Bachelor of Engineering (Civil) and Bachelor of Science

Year and Campus:	2014
CRICOS Code:	009725A
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:	.
Contact:	Melbourne School of Engineering Ground Floor, Old Engineering (Building 173) Current students: Email: 13MELB@unimelb.edu.au (mailto:13MELB@unimelb.edu.au) Phone: 13MELB (13 6352) +61 3 9035 5511
Course Overview:	<p>THE COURSE STRUCTURE BELOW ONLY APPLIES TO RE-ENROLLING STUDENTS WHO COMMENCED THEIR STUDIES PRIOR TO 2008</p> <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 necessary requirements to complete the degree</i></p>
Learning Outcomes:	<p>The course objectives are that graduates should have acquired:</p> <ul style="list-style-type: none"> # Abroad 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 # A 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; and # The educational and professional standards of the professional institutions with which the faculties' courses are accredited.
Course Structure & Available Subjects:	<p>THE COURSE STRUCTURE BELOW ONLY APPLIES TO RE-ENROLLING STUDENTS WHO COMMENCED THEIR STUDIES PRIOR TO 2008</p> <p>The standard BE/BSc combined degrees requires a total of 500 points, within which students must take a minimum of 300 engineering points and 237.5 science points. The total points of a standard course can be kept to 500 as at least 50 points of core material within the various streams of engineering also earn science point. Please refer to the Bachelor of Science (../view/current/755BB) for Science subject selection</p> <p>All students in the combined degree Bachelor of Engineering/Bachelor of Science are required to complete 237.5 science points, which must include:</p> <ul style="list-style-type: none"> # between 75 and 125 points at Level 1 # completion of 50 points of a prescribed Science Major (../view/current/B-SCI) at Level 3

	<p>Students may not complete alternative combinations of subjects to major unless approval is obtained from the Eastern Precinct Student Centre. The University is committed to ensuring that students are not disadvantaged by recent changes to the curriculum and students may complete a major as defined by the current structure or a structure detailed in a previous year's handbook applicable to any year the student was enrolled in the course. Bachelor of Engineering/Bachelor of Science students who require advice on an appropriate subject selection to complete a specific science major should contact the Science Student Centre.</p>															
Subject Options:	<p>Final year subjects</p> <p>Students should see a course advisor for assistance</p> <p>Final Year (total 100 points)</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>CVEN90052 Integrated Design</td> <td>Year Long</td> <td>25</td> </tr> <tr> <td>CVEN90049 Structural Theory and Design 2</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>CVEN90050 Geotechnical Engineering</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>CVEN90051 Civil Hydraulics</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table> <p>Civil Electives (12.5 points) selected from 355AV (../view/current/355AV)</p> <p>PLUS Science subjects (25 points) as required</p>	Subject	Study Period Commencement:	Credit Points:	CVEN90052 Integrated Design	Year Long	25	CVEN90049 Structural Theory and Design 2	Semester 1	12.50	CVEN90050 Geotechnical Engineering	Semester 1	12.50	CVEN90051 Civil Hydraulics	Semester 2	12.50
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Entry Requirements:	THERE IS NO FURTHER ENTRY INTO THIS COURSE															
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>															
Further Study:	<p>On completion of a Bachelor of Engineering, students may choose to apply for candidature in a Masters by Research or PhD. They may also apply to undertake a one year Advanced Masters by Coursework degree</p>															
Graduate Attributes:	<p>The Bachelor of Engineering is a professional degree. Graduates can obtain professional recognition by joining Engineers Australia who has accredited these programs. The Bachelor of Engineering also delivers on the University graduate attributes</p>															
Professional Accreditation:	<p>This course is accredited with Engineers Australia</p>															
Generic Skills:	<p>Upon completion of this course the student should have developed their:</p> <ul style="list-style-type: none"> # Ability to apply knowledge of science and engineering fundamentals # Ability to undertake problem identification, formulation and solution # Ability to utilise a systems approach to complex problems and to design and operational performance # Proficiency in engineering design # Ability to communicate effectively, with the engineering team and with the community at large # Capacity for creativity and innovation # Ability to function effectively as an individual and in a multidisciplinary and multicultural teams, as a team leader or manager as well as an effective team member 															

Capacity for lifelong learning and professional development