

355-AC Bachelor of Engineering (Chemical Engineering)

Year and Campus:	2009																								
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees																								
Level:	Undergraduate																								
Duration & Credit Points:																									
Contact:	<p>Engineering Student Centre Ground Floor, Old Engineering Building The University of Melbourne Victoria 3010 AUSTRALIA</p> <p>Tel: +61 3 8344 6703 Fax: +61 3 9349 2182 Email http://eng-unimelb.custhelp.com (http://eng-unimelb.custhelp.com/)</p>																								
Course Overview:	<p>Following the introduction of the chemical engineering degree in 1952, graduates from the Department of Chemical and Biomolecular Engineering have been rapidly accepted into industry, both in Australia and worldwide. Graduate Chemical and Biomolecular Engineering starting salaries are higher than any other engineering discipline.</p> <p>Chemical and Biomolecular Engineering is concerned with developing and analysing process systems, which are strongly dependant upon chemistry and involve physical changes. Our graduates find employment in the biochemical industry, the food industry, as well as in the traditional chemical industry. Chemical and Biomolecular Engineers are well suited for environmental-related engineering positions given their strong background in process systems and in chemical biological processes in particular.</p> <p>The single degree, Bachelor of Engineering (Chemical), requires the completion of 400 points over four years.</p>																								
Objectives:	-																								
Course Structure & Available Subjects:	The recommended or standard course structures are listed below.																								
Subject Options:	<p>THE COURSE STRUCTURE BELOW ONLY APPLIES TO RE-ENROLLING STUDENTS WHO COMMENCED THEIR STUDIES PRIOR TO 2008. For students who have failed a subject you MUST see a Course Adviser</p> <p>Third Year</p> <p>Subjects listed below MUST be taken in this approved order, regardless of listed availability.</p> <p>Semester 1</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>411-303 Reactor Engineering</td> <td>Semester 1</td> <td>12.500</td> </tr> <tr> <td>411-331 Heat and Mass Transport Processes 1</td> <td>Semester 1</td> <td>12.500</td> </tr> <tr> <td>411-343 Chemical Engineering Management</td> <td>Semester 1</td> <td>12.500</td> </tr> <tr> <td>411-393 Bioprocess Engineering</td> <td>Semester 1</td> <td>12.500</td> </tr> </tbody> </table> <p>Semester 2</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>411-336 Process Dynamics and Control</td> <td>Semester 2</td> <td>12.500</td> </tr> <tr> <td>411-337 Practical and Computer Laboratory</td> <td>Semester 2</td> <td>12.500</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	411-303 Reactor Engineering	Semester 1	12.500	411-331 Heat and Mass Transport Processes 1	Semester 1	12.500	411-343 Chemical Engineering Management	Semester 1	12.500	411-393 Bioprocess Engineering	Semester 1	12.500	Subject	Study Period Commencement:	Credit Points:	411-336 Process Dynamics and Control	Semester 2	12.500	411-337 Practical and Computer Laboratory	Semester 2	12.500
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411-339 Process Engineering 2	Semester 2	12.500
411-391 Bionanoengineering	Semester 2	12.500

Forth Year

Subjects listed below **MUST** be taken in this approved order, regardless of semester availability.

Semester 1

Subject	Study Period Commencement:	Credit Points:
411-432 Particle Mechanics and Processing	Semester 1	12.500
411-442 Process Equipment Design	Semester 1	12.500
411-441 Heat and Mass Transport Processes 2	Semester 1	12.500
411-445 Process Engineering 3	Semester 1	12.500

Semester 2

Subject	Study Period Commencement:	Credit Points:
411-446 Research Project	Summer, Semester 1, Semester 2	18.750
411-447 Design Project	Semester 2	18.750
411-448 Biochemical/Environmental Engineering 2	Semester 2	12.500

OR

Subject	Study Period Commencement:	Credit Points:
411-449 Minerals, Materials and Recycling	Semester 2	12.500

Core Participation Requirements:

<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>

Notes:

When setting the timetable every effort will be made to avoid clashes between the times of classes associated with these sets of subjects, Students should be aware however, that if it proves to be impossible to achieve a timetable without clashes in these sets of subjects, the Faculty reserves the right to modify course structures in order to eliminate the conflicts. Students will be advised during the enrolment period of the semester if the recommended courses need to be varied. Where the courses include elective subjects these should be chosen so that timetable clashes are avoided. In particular, students in combined degrees should plan their courses so that the subjects chosen in the other faculty do not clash with those recommended for the engineering component.