

## 679BM Bachelor of Engineering (Biomedical) Biomechanics

<b>Year and Campus:</b>	2011 - Parkville																				
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>																				
<b>Level:</b>	Undergraduate																				
<b>Duration &amp; Credit Points:</b>	400 credit points taken over 48 months full time. This course is available as full or part time.																				
<b>Coordinator:</b>	Dr David Grayden																				
<b>Contact:</b>	Melbourne School of Engineering <a href="mailto:courseinfo@eng.unimelb.edu.au">courseinfo@eng.unimelb.edu.au</a> ( <a href="mailto:courseinfo@eng.unimelb.edu.au">mailto:courseinfo@eng.unimelb.edu.au</a> ) <a href="http://www.eng.unimelb.edu.au">http://www.eng.unimelb.edu.au</a> ( <a href="http://www.eng.unimelb.edu.au">http://www.eng.unimelb.edu.au</a> )																				
<b>Course Overview:</b>	<p>THE COURSE STRUCTURE BELOW ONLY APPLIES TO RE-ENROLLING STUDENTS WHO COMMENCED THEIR STUDIES PRIOR TO 2008</p> <p>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 these 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.</p>																				
<b>Objectives:</b>	See Course Overview																				
<b>Course Structure &amp; Available Subjects:</b>	Students must complete 400 credit points comprising the core program of discipline subjects.																				
<b>Majors/Minors/ Specialisations</b>	<p>There is no further entry into this course</p> <p>Note: Students who commenced fourth year (the final year of course) in 2010 and have not completed (or who have failed) the fourth year subjects required in the Bachelor of Engineering degree please see a course adviser. The following final year subjects are available in 2011</p>																				
<b>Subject Options:</b>	<p>Final year</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>MCEN40020 Major Project and Professional Practice</td> <td>Year Long</td> <td>25</td> </tr> </tbody> </table> <p><b>ELEN90055 Control Systems (../view/2011/ELEN90055)</b> (12.5) 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>MCEN90010 Finance &amp; Human Resources for Engineers</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table> <p><b>BMEN90020 Biomedical Design and Regulation (../view/2011/BMEN90008)</b> (12.5 points ) Semester 1</p> <p><b>MCEN90008 Fluid Dynamics (../view/2011/MCEN90008)</b> (12.5 points)</p> <p><b>MCEN90015 Thermodynamics (../view/2011/MCEN90015)</b> (12.5 points)</p> <p>BMEN90022 Computational Biomechanics (12.5 points) 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>PHYC30013 Principles and Applications of Sensors</td> <td>Not offered 2011</td> <td>12.50</td> </tr> </tbody> </table>			Subject	Study Period Commencement:	Credit Points:	MCEN40020 Major Project and Professional Practice	Year Long	25	Subject	Study Period Commencement:	Credit Points:	MCEN90010 Finance & Human Resources for Engineers	Semester 1	12.50	Subject	Study Period Commencement:	Credit Points:	PHYC30013 Principles and Applications of Sensors	Not offered 2011	12.50
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<b>Entry Requirements:</b>	There is no further entry into this course																				

<b>Core Participation Requirements:</b>	For the purposes of considering a request for Reasonable Adjustments under the Disability Standards for Education (Cwlth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this course 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: <a href="http://www.services.unimelb.edu.au/disability">http://www.services.unimelb.edu.au/disability</a>
<b>Further Study:</b>	On completion of the 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.
<b>Graduate Attributes:</b>	The Bachelor of Engineering is a professional degree. Graduates can obtain professional recognition by joining Engineers Australia who has accredited this program. The Bachelor of Engineering also delivers on the University graduate attributes. <a href="http://www.unimelb.edu.au/about/attributes.html">http://www.unimelb.edu.au/about/attributes.html</a>
<b>Professional Accreditation:</b>	This course is accredited with Engineers Australia
<b>Generic Skills:</b>	Upon completion of this course the student should have developed their: <ul style="list-style-type: none"> <li># Ability to apply knowledge of science and engineering fundamentals</li> <li># Ability to undertake problem identification, formulation and solution</li> <li># Ability to utilise a systems approach to complex problems and to design and operational performance</li> <li># Proficiency in engineering design</li> <li># Ability to communicate effectively, with the engineering team and with the community at large</li> <li># Capacity for creativity and innovation</li> <li># 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</li> <li># Capacity for lifelong learning and professional development</li> </ul>
<b>Notes:</b>	Credit may not be obtained for both MCEN30004 Thermofluids 2 and MCEN90008 Fluid Dynamics MCEN30004 Thermofluids 2 and MCEN90015 Thermodynamics