

# BMEN40001 Biocellular Engineering Research Proj 1

<b>Credit Points:</b>	12.50															
<b>Level:</b>	4 (Undergraduate)															
<b>Dates &amp; Locations:</b>	2011, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus. Semester 2, Parkville - Taught on campus. Research feasibility study based on literature review with possible laboratory or computer work (independent or team based)															
<b>Time Commitment:</b>	Contact Hours: Forty-eight hours of supervised research (literature-based, experimental or computer) Total Time Commitment: Estimated non-contact time commitment of 96 hours.															
<b>Prerequisites:</b>	Students must have taken the following subjects (or equivalent) prior to enrolling in this subject: <table border="1" data-bbox="387 660 1485 981"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>CHEN30009 Process Dynamics and Control</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>BIEN30001 Bionanoengineering</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>BMEN90011 Tissue Engineering &amp; Stem Cells</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>BMEN30002 Cellular &amp; Tissue Biomechanics</td> <td>Not offered 2011</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	CHEN30009 Process Dynamics and Control	Semester 2	12.50	BIEN30001 Bionanoengineering	Semester 2	12.50	BMEN90011 Tissue Engineering & Stem Cells	Semester 2	12.50	BMEN30002 Cellular & Tissue Biomechanics	Not offered 2011	12.50
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<b>Corequisites:</b>	None															
<b>Recommended Background Knowledge:</b>	None															
<b>Non Allowed Subjects:</b>	None															
<b>Core Participation Requirements:</b>	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: <a href="http://www.services.unimelb.edu.au/disability/">http://www.services.unimelb.edu.au/disability/</a>															
<b>Coordinator:</b>	Assoc Prof Andrea O'Connor															
<b>Contact:</b>	Email: <a href="mailto:a.oconnor@unimelb.edu.au">a.oconnor@unimelb.edu.au</a> ( <a href="mailto:a.oconnor@unimelb.edu.au">mailto:a.oconnor@unimelb.edu.au</a> )															
<b>Subject Overview:</b>	Students in Biocellular Engineering Research Project 1 will undertake a designated investigative project as individuals or as a member of a team, involving a critical literature review and feasibility study, designed to lead on to a more substantial research task to be undertaken in BMEN40002 - Biocellular Engineering Research Project 2 . Rigorous time management, written and verbal technical communication and team work will be required.															
<b>Objectives:</b>	On completion of this subject/ course students should be able to: <ul style="list-style-type: none"> <li># Be familiar with the methodologies of research in Biocellular Engineering</li> <li># Conduct an independent review of published literature sources</li> <li># Formulate and plan an individual or team-based research project</li> <li># Present research findings both orally and in writing</li> </ul>															
<b>Assessment:</b>	A written report of up to approximately 8,000 words, not including appendices, diagrams, tables, computations and computer output, due towards the end of semester, contributing 50% to the															

	total assessment; An oral presentation contributing 25% An assessment of the quality of the student's research work contributing 25%.
<b>Prescribed Texts:</b>	None
<b>Breadth Options:</b>	This subject is not available as a breadth subject.
<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>Generic Skills:</b>	The subject will enhance the following generic skills: <ul style="list-style-type: none"><li># The ability to undertake problem identification, formulation and solution;</li><li># Capacity for independent thought</li><li># The ability to communicate effectively orally and in writing</li><li># The ability to plan work and use time effectively</li></ul>
<b>Related Course(s):</b>	Bachelor of Engineering (Biomedical)Biocellular