

## BMEN90014 Biomedical Engineering Research Project

<b>Credit Points:</b>	12.50
<b>Level:</b>	9 (Graduate/Postgraduate)
<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.
<b>Time Commitment:</b>	Contact Hours: 24 hours Total Time Commitment: 120 hours.
<b>Prerequisites:</b>	Successful completion of 4 subjects from the Masters of Biomedical Engineering Program.
<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 David Grayden, Prof Anthony Burkitt
<b>Contact:</b>	Email: <a href="mailto:grayden@unimelb.edu.au">grayden@unimelb.edu.au</a> ( <a href="mailto:grayden@unimelb.edu.au">mailto:grayden@unimelb.edu.au</a> )
<b>Subject Overview:</b>	Students successfully completing this unit should be able to plan and conduct an independent research project on biomedical engineering.  Candidates will undertake as individuals or as a member of a team a designated investigative project which could involve a critical literature review, experimental research and/or development, theoretical modelling, process simulation and/or the solution of an industrial problem. Rigorous planning and scheduling of the project, time management, written and verbal technical communication, interpretation of results and team work will be required.
<b>Objectives:</b>	Refer to Subject Description.
<b>Assessment:</b>	A written report of up to 4000 words, not including appendices, diagrams, tables, computations and computer output, due towards the end of semester (50%); An oral presentation during the end of semester examination period (25%); an assessment of the quality of the student's research work (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>	<ul style="list-style-type: none"> <li># Ability to apply knowledge of basic science and engineering fundamentals</li> <li># Ability to communicate effectively, not only with engineers but also with the community at large</li> <li># In-depth technical competence in at least one engineering discipline</li> <li># Ability to undertake problem identification, formulation and solution</li> <li># Ability to function effectively as an individual and in multi-disciplinary and multi-cultural teams, with the capacity to be a leader or manager as well as an effective team member</li> </ul>

	<ul style="list-style-type: none"><li># Capacity for independent critical thought, rational inquiry and self-directed learning</li><li># Intellectual curiosity and creativity, including understanding of the philosophical and methodological bases of research activity</li><li># Profound respect for truth and intellectual integrity, and for the ethics of scholarship</li></ul>
<b>Related Course(s):</b>	Master of Biomedical Engineering