BIEN40001 Biomolecular Engineering Research Proj

Credit Points:	18.75
Level:	4 (Undergraduate)
Dates & Locations:	2010, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus. Semester 2, Parkville - Taught on campus. Laboratory, computer or literature-based research project (independent or team-based).
Time Commitment:	Contact Hours: Two hours of lectures and seventy-two hours of supervised research (experimental, computer or literature-based). Total Time Commitment: Not available
Prerequisites:	**411-392** Fermentation Process Principles; **411-391** Bionanoengineering; **411-432** Particle Mechanics and Processing; **411-303** Reactor Engineering; **411-204** Chemical Engineering Thermodynamics; **411-366** Process Dynamics and Control; **411-37**7 Practical and Computer Laboratory.
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	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: http://www.services.unimelb.edu.au/disability/
Coordinator:	Assoc Prof Malcolm Davidson
Contact:	Melbourne School of Engineering Office Building 173, Grattan Street The University of Melbourne VIC 3010 Australia General telephone enquiries: + 61 3 8344 6703 + 61 3 8344 6507 Facsimiles: + 61 3 9349 2182 + 61 3 8344 7707 Email: **eng-info@unimelb.edu.au (/)**
Subject Overview:	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 teamwork will be required
Objectives:	At the completion of this subject students should be able to; - understand the methodologies of research in Biomolecular Engineering, - plan and conduct an individual or team-based research project - present orally and in writing the results of their research.

Assessment:	A written report of approximately 30 pages with associated diagrams and computations contributing 50% to the total assessment, along with an oral presentation (25%) and an assessment of the quality of the research work (25%).
Prescribed Texts:	None
Recommended Texts:	None
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	The subject will enhance the following generic skills: # The ability to undertake problem identification, formulation and solution. # Capacity for independent thought. # The ability to communicate effectively orally and in writing. # The ability to plan work and use time effectively.
Related Course(s):	Bachelor of Engineering (Chemical and Biomolecular Engineering)