411-451 Biomolecular Engineering Research Proj

Credit Points:	18.750
Level:	Undergraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 2, - Taught on campus. Laboratory, computer or literature-based research project (independant or team-based).
Time Commitment:	Contact Hours: 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; 411-377 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 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. Assessment and Generic Skills sections of this entry. <ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti><ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti>
Coordinator:	Assoc Prof G Qiao
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. The objective is to acquaint students with the methodologies of research in Biomolecular Engineering, to allow them to gain experience in the planning and conduct of an individual or team-based research project, and to develop their abilities to present orally and in writing the results of their research. Students successfully completing this unit should be able to plan and conduct an independant research project in Biomolecular Engineering.
Assessment:	A written report of approximately 8000 words 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
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.

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	# 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)

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