

411-451 Biomolecular Engineering Research Proj

Credit Points:	18.75
Level:	4 (Undergraduate)
Dates & Locations:	2009, This subject commences in the following study period/s: Semester 1, - Taught on campus. Semester 2, - 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; 411-377 Practical and Computer Laboratory.
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	<p><p>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.</p> <p><p>It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: http://services.unimelb.edu.au/disability</p></p> </p>
Coordinator:	Assoc Prof Malcolm Davidson
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; <ul style="list-style-type: none"> - 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
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:

	<ul style="list-style-type: none"># 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)