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## 411-454 Biocellular Engineering Research Proj 1

| Credit Points:                       | 12.50  |
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| Level:                               | 4 (Undergraduate)  |
| Dates & Locations:                   | 2009,<br>This subject commences in the following study period/s:<br>Semester 1, - Taught on campus.<br>Semester 2, - Taught on campus.<br>Research feasibility study based on literature review with possible laboratory or computer work<br>(independant or team based)   |
| Time Commitment:                     | Contact Hours: Forty-eight hours of supervised research (literature-based, experimental or computer) Total Time Commitment: Estimated non-contact time commitment of 96 hours.   |
| Prerequisites:                       | <b>411-336</b> Process Dynamics and Control, <b>411-391</b> Bionanoengineering, <b>411-394</b> Tissue Engineering, <b>534-301</b> Cellular and Molecular Pharmacology, and <b>436-387</b> Cellular and Tissue Biomechanics.  |
| Corequisites:                        | None   |
| Recommended<br>Background Knowledge: | None   |
| Non Allowed Subjects:                | None   |
| Core Participation<br>Requirements:  | For the purposes of considering request for Reasonable Adjustments under the Disability<br>Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic<br>requirements for this subject are articulated in the Subject Overview, Learning Outcomes,<br>Assessment and Generic Skills sections of this entry.It is University policy to<br>take all reasonable steps to minimise the impact of disability upon academic study, and<br>reasonable adjustments will be made to enhance a student's participation in the University's<br>programs. Students who feel their disability may impact on meeting the requirements of this<br>subject are encouraged to discuss this matter with a Faculty Student Adviser and Student<br>Equity and Disability Support: <a href="http://services.unimelb.edu.au/disability">http://<br/>services.unimelb.edu.au/disability</a> |
| Coordinator:                         | Assoc Prof Andrea O'Connor   |
| Subject Overview:                    | 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.   |
| Objectives:                          | On completion of this subject/ course students should be able to:<br># be familiar with the methodologies of research in Biocellular Engineering<br># conduct an independent review of published literature sources<br># formulate and plan an individual or team-based research project<br># present research findings both orally and in writing   |
| Assessment:                          | 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% and an assessment of the quality of the student's research work contributing 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:<br># The ability to undertake problem identification, formulation and solution;<br># Capacity for independant thought<br># The ability to communicate effectively orally and in writing<br># The ability to plan work and use time effectively |
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| Related Course(s): | Bachelor of Engineering (Biomedical)Biocellular   |