

202-211 Biotechnology

Credit Points:	12.50
Level:	2 (Undergraduate)
Dates & Locations:	2009, This subject commences in the following study period/s: Semester 2, - Taught on campus.
Time Commitment:	Contact Hours: 48 hours Total Time Commitment: Estimated total time commitment (including non-contact time): 110 hours.
Prerequisites:	650-141 Biology of Cells and Organisms
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	Students undertaking this subject will be expected to regularly access an internet-enabled computer.
Coordinator:	Dr David Edward Tribe
Contact:	msle-ugrad@unimelb.edu.au (mailto:msle-ugrad@unimelb.edu.au)
Subject Overview:	This course focuses on exploring and understanding the science underpinning the biotechnology revolution. Principles of molecular, cellular and process engineering are explained, and their applications in industry, agriculture, and medicine surveyed. Forums on currently active topics feature invited industry speakers.
Objectives:	By the end of the subject students should have: <ul style="list-style-type: none"> # acquired knowledge of the basic principles of biotechnology for manipulation of microbe, plant and animal characteristics, and molecular biology, genome science and bioengineering that underpins new developments in biotechnology # developed an understanding of local and global issues in biotechnology in relation to human welfare, environmental health and sustainable agriculture.
Assessment:	Continuing assessment through the semester including written assignments less than 2000 words (40%) and a 2-hour written examination in the examination period (60%).
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:	On completion of this subject, students should have developed the following generic skills: <ul style="list-style-type: none"> # the ability to interpret scientific literature and interpret data from electronic databases # the capacity to integrate knowledge across disciplines # the ability to comprehend a question, evaluate the relevant information and communicate an answer.
Notes:	The course will include four seminar sessions on currently active areas of biotechnology, which provide a forum for student discussion of implications for the community of new technologies. This subject is available for science credit to students enrolled in the BSc (new degree only).

Related Majors/Minors/ Specialisations:	Biotechnology Biotechnology
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