

## 606-205 Cell Biology: Concepts and Diversity

<b>Credit Points:</b>	12.500
<b>Level:</b>	Undergraduate
<b>Dates &amp; Locations:</b>	2008, This subject commences in the following study period/s: Semester 2, - Taught on campus.
<b>Time Commitment:</b>	Contact Hours: 24 lectures (2 per week), 36 hours practical work and project exercises Total Time Commitment: 120 hours
<b>Prerequisites:</b>	Biology 650-141 and 650-142 (prior to 2004: 600-141 and 600-142); and chemistry 610-141 and 610-142 (or 610-121 and 610-122).
<b>Corequisites:</b>	None
<b>Recommended Background Knowledge:</b>	None
<b>Non Allowed Subjects:</b>	None
<b>Core Participation Requirements:</b>	It is University policy to take all reasonable steps to minimise the impact of disability upon academic study and reasonable steps will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact upon their active and safe participation in a subject are encouraged to discuss this with the relevant subject coordinator and the Disability Liaison Unit.
<b>Coordinator:</b>	Dr E Newbiggin
<b>Subject Overview:</b>	<p>All organisms are made of cells and share fundamental similarities as well as differences. This subject explains the structure and function of cells, and highlights the unique features of particular cells including plant cells, marine algae and parasites like malaria. Topics include:</p> <ul style="list-style-type: none"> <li># cells and their organelles, their origins, functions and interrelationships;</li> <li># the key processes of cells;</li> <li># how cells interact in a complex multicellular plant.</li> </ul> <p>At the end of this subject, students should:</p> <ul style="list-style-type: none"> <li># understand the endosymbiosis theory of organelles and how cell structures interact to bring about basic life processes;</li> <li># become familiar with how living cells behave during different types of cellular activity; and</li> <li># understand modern techniques used in cell and molecular biology research.</li> </ul>
<b>Assessment:</b>	Two 30-minute written class tests during semester (12.5% each); written reports on practical work due during the semester (25%); a 3-hour written examination during the examination period (50%).
<b>Prescribed Texts:</b>	None
<b>Breadth Options:</b>	This subject is a level 2 or level 3 subject and is not available to new generation degree students as a breadth option in 2008. This subject or an equivalent will be available as breadth in the future. Breadth subjects are currently being developed and these existing subject details can be used as guide to the type of options that might be available. 2009 subjects to be offered as breadth will be finalised before re-enrolment for 2009 starts in early October.
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>

<b>Notes:</b>	Students enrolled in the BSc (pre-2008 BSc), BAsC or a combined BSc course will receive science credit for the completion of this subject. Previously known as 606-205 Plant Cell Biology.
<b>Related Course(s):</b>	Graduate Diploma in Biotechnology