

207-263 Advanced Plant Biology

Credit Points:	12.500
Level:	Undergraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 1, - Taught on campus.
Time Commitment:	Contact Hours: Twenty-four hours lectures, 24 hours practicals, 12 hours tutorials Total Time Commitment: Not available
Prerequisites:	None
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>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>
Coordinator:	Magali Wright
Subject Overview:	<p>The aims of this subject are to extend the student's ability to:</p> <ul style="list-style-type: none"> # apply the principles and units of chemical measurement and energy balances; # describe the biochemistry of major plant physiological processes; # identify the causes and effects of environmental stresses; # describe the effects of the major plant hormones on plant growth and development; # describe the role of natural selection and competition in plant biology; # assess the effects of herbicides on plant metabolism, the environment and health; # determine the physiological basis of plant responses to disease and decay; and # identify responses of native plants to aspects of the Australian Environment. <p>Content to be studied includes:</p> <ul style="list-style-type: none"> # nutrient cycling, uptake and assays; # photosynthesis; # respiration; # germination, growth, flowering and senescence; # the biology of mycorrhizal fungi; # competition, breeding and genetics;

	<ul style="list-style-type: none"> # stress physiology; # physiological plant pathology; # hormone biology; # mechanisms of herbicide action; # plant pollutants; and # the biology of native plants.
Assessment:	One 1-hour mid-semester examination worth 20% of final marks, one final 2-hour examination worth 50% of final marks and three practical reports equivalent to 2000 words worth 30% of final marks.
Prescribed Texts:	None
Recommended Texts:	Information Not Available
Breadth Options:	<p>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.</p> <p>This subject or an equivalent will be available as breadth in the future.</p> <p>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.</p> <p>2009 subjects to be offered as breadth will be finalised before re-enrolment for 2009 starts in early October.</p>
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	Information Not Available
Notes:	Study commitment for this subject is five hours per week.
Related Course(s):	Associate Degree in Environmental Horticulture