

220-302 Tree Growth and Ecophysiology

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 and 36 hours practical work Total Time Commitment: Not available
Prerequisites:	202-201 Plant Function or 606-201 Plant Structure and Function; 202-203 Soil and Water Resources.
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:	Dr Gerd Bossinger & A.Prof Michael Tausz
Subject Overview:	<p>Subject content includes:</p> <ul style="list-style-type: none"> # life cycles and tree development; # molecular aspects of wood, and the effect of genetics and silviculture on wood quality; # flowering and tree developmental responses to environmental stresses; # ecophysiology of water and nutrient use, tree performance and environmental constraints on tree growth, interactions between light, water, nutrients and genetic capacity in limiting growth; # management of the interaction between light, water and nutrients to maximise carbon gain (growth) in planted trees; # current tools for measurement of physiological performance; # nutrient cycling in native forests and plantations, gas exchange and the C and N economies; and # process-based models for forest growth.
Assessment:	A 3-hour end-of-semester examination (50%), and two project reports totalling 3000 words (50%).
Prescribed Texts:	None
Recommended Texts:	# Plant Physiological Ecology (H Lambers, F S Chapin and T L Pons), Springer, 1998

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
Related Course(s):	Bachelor of Forest Science Bachelor of Forest Science Bachelor of Forest Science/Bachelor of Science