

220-509 Tree Physiological Measurements

Credit Points:	12.500
Level:	Graduate/Postgraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 2, - Taught on campus. Intensive teaching mode
Time Commitment:	Contact Hours: Twenty-four hours lectures and 36 hours practical work 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:	Dr S Arndt, Assoc Prof M Tausz
Subject Overview:	<p>This subject will equip the students with a good understanding of cutting edge methods currently used in tree biology. Actual data are the basis of all our scientific knowledge in general and of the understanding of forest ecosystems in particular. Masters level forest scientists are expected to understand the principles and limitations of data acquisition in field settings. The subject will provide in-depth analysis and practical training on selected methods including infrared gas analysis (IRGA; photosynthesis and transpiration), chlorophyll fluorescence, methods to assess water status and water use (sap flow, water potentials, osmotic potentials, osmotic adjustment etc), stable isotope applications (IRMS), and selected others. By the end of the subject students should:</p> <ul style="list-style-type: none"> • Understand the underlying principles and limitations of the methods and acquired data; • Be able to practically use these methods to address research questions in forest and ecosystem science; • Be able to design sampling protocols for the practical use of methods; • Be able to critically evaluate results; • Have an appreciation of inherent errors and difficulties in acquisition of data on forest ecosystems
Assessment:	Two practical projects (incl. a 1500 words report each; 70 %) and a one hour examination (30%).
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

**Links to further
information:**

<http://www.forests.unimelb.edu.au/subjects.html>