

220-290 Leaves to Landscape

Credit Points:	12.50
Level:	2 (Undergraduate)
Dates & Locations:	2009, This subject commences in the following study period/s: Semester 1, - Taught on campus. On campus
Time Commitment:	Contact Hours: 60 hours Total Time Commitment: Estimated total time commitment (including non-contact time): 120 hours.
Prerequisites:	Nil
Corequisites:	Nil
Recommended Background Knowledge:	880-101 Natural Environments
Non Allowed Subjects:	None
Core Participation Requirements:	Students undertaking this subject will be expected to regularly access an internet-enabled computer.
Coordinator:	Dr Peter Kevin Ades
Subject Overview:	<p>Why are leaves the most important things on the planet? This subject introduces students to the essential properties of leaves and plants and how these interact with landscape, climate, and production systems. While the subject deals with plant basics, it focuses on knowledge required for managing vegetation.</p> <p>Topics include:</p> <ul style="list-style-type: none"> # leaves and energy (leaves as the primary light harvesting organ that supplies energy for most living things) # leaves and water (roots, transpiration, responding to water stress and salinity) # leaves and canopies (plant architecture, canopies and acclimation/adaptation) # what leaves produce (stems and bark) # diversity of plants (including those without leaves) # leaves and their interactions with other species, including humans. <p>Students taking 650-141 Biology of Cells and Organisms (BSc) as a Breadth subject will be exempt from this subject.</p>
Objectives:	<p>At the completion of this subjects students should:</p> <ul style="list-style-type: none"> # have a knowledge of the basic processes of plant physiology # be familiar with the structure and function of plants # understand the mechanisms of plant reproduction, growth and development # have an overview of plant diversity and the place of plants in natural and anthropogenic ecosystems. <p>This subject is intended to provide students, who have not completed first year BSc biology, with sufficient biological background for subsequent subjects in the Landscape Management stream.</p>
Assessment:	Written work as practical and excursion reports totalling up to 15 pages due during the semester (30%); ongoing assessment of practical exercises and laboratory problems during the semester (25%); a 2-hour written examination in the examination period (45%).
Prescribed Texts:	Raven, P.H., Evert, R.F. and Eichorn, S.E. (2005) Biology of plants. 7th edition. W.H. Freeman and Co. Publ. New York, USA. ISBN 0-7167-1007-2

Breadth Options:	<p>This subject potentially can be taken as a breadth subject component for the following courses:</p> <ul style="list-style-type: none"> # Bachelor of Arts (https://handbook.unimelb.edu.au/view/2009/D09) # Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2009/F04) # Bachelor of Environments (https://handbook.unimelb.edu.au/view/2009/A04) # Bachelor of Music (https://handbook.unimelb.edu.au/view/2009/M05) <p>You should visit learn more about breadth subjects (http://breadth.unimelb.edu.au/breadth/info/index.html) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.</p>
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	<p>On completion of this subject, students should have developed their:</p> <ul style="list-style-type: none"> # ability to observe and record information about the physical world # ability to interpret data # ability to prepare written reports.
Notes:	<p>Students taking 650-141 Biology of Cells and Organisms (BSc) as a Breadth subject will be exempt from this subject.</p> <p>This subject is intended to provide students, who have not completed first year BSc biology, with sufficient biological background for subsequent subjects in the Landscape Management stream.</p>
Related Majors/Minors/Specialisations:	Landscape Management