

HORT10007 Plant Biology

Credit Points:	12.50
Level:	1 (Undergraduate)
Dates & Locations:	2010, Burnley This subject commences in the following study period/s: Semester 1, Burnley - Taught online/distance. Semester 1, Burnley - Taught on campus.
Time Commitment:	Contact Hours: Lectures: 24 hours; Tutorials: 12 hours; Practicals: 18 hours Total Time Commitment: Not available
Prerequisites:	N/A
Corequisites:	N/A
Recommended Background Knowledge:	N/A
Non Allowed Subjects:	N/A
Core Participation Requirements:	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: http://www.services.unimelb.edu.au/disability/
Coordinator:	Mr Stuart Burns
Contact:	MLSE Student Centre Phone: 8344 0276 Email: msle-info@unimelb.edu.au (mailto:msle-info@unimelb.edu.au)
Subject Overview:	This subject considers the importance of plant production and the ecological role of plants. Topics include: <ul style="list-style-type: none"> # the process of photosynthesis, its links with respiration and growth, the effect of light conditions and plant adaptations to these; photoperiodism; # the manipulation of light in plant production; the photosynthesis-transpiration compromise, water uptake, osmotic potential, adaptations for water conservation; irrigation; # waterlogging and salinity; climate; temperature as a moderating and limiting factor; soil, nutrients, nutrient cycling and soil biota; other growing media; pests, diseases and their control; competition, mycorrhizas; plant growth and development, vegetative propagation, tissue culture and plant variety rights; # sexual reproduction, its advantages, disadvantages and manipulation; Mendelian genetics; genetic engineering; and # methods of establishing plants including site selection and preparation; dormancy and germination; natural ecosystems, disturbed ecosystems, various crops, permaculture and amenity parkland; case studies for a variety of plant production systems; and post-harvest issues.
Objectives:	Information Not Available

Assessment:	One mid-semester 1-hour written examination (theory) worth 20% of final marks, one mid-semester practical test worth 20% of final marks, one final 2-hour written examination worth 40% of final marks and one final practical test worth 20% of final marks.
Prescribed Texts:	Information Not Available
Recommended Texts:	# Introductory Plant Biology (K R Stern), Wm C Brown, 1997
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
Generic Skills:	Information Not Available
Related Course(s):	Associate Degree in Environmental Horticulture