HORT90008 Horticultural Plant Science

Credit Points:	12.5
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2015, Burnley This subject commences in the following study period/s: Semester 2, Burnley - Taught on campus.
Time Commitment:	Contact Hours: 48 hours comprising lectures (24 hours), practical sessions (24 hours). Total Time Commitment: 170 hours
Prerequisites:	None
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	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. This course requires all students to enrol in subjects where they must actively and safely contribute to field excursions and laboratory activities. Students who feel their disability will impact on meeting this requirement are encouraged to discuss this matter with the Subject Coordinator and Disability Liaison http://services.unimelb.edu.au/disability/. Email: disability-liaison@unimelb.edu.au
Coordinator:	Dr Virginia Williamson
Contact:	**Graduate School of Science** *Enquiries* Phone: 13 MELB (13 6352) Email: **13MELB@unimelb.edu.au (mailto:13MELB@unimelb.edu.au)** Subject Coordinator: **vgw@unimelb.edu.au (mailto:vgw@unimelb.edu.au)**
Subject Overview:	This subject considers the evolution of plants, their structure and function, how they reproduce, cell physiology, energy transformations, metabolism, photosynthesis, water and nutrient uptake and transport, plant nutrition and whole plant physiology. Upon completion of this subject, students should be able to demonstrate their understanding of the structure of plant cells and tissues, the basic processes involved in the growth of plants and the integration of these processes in the physiology of plant growth.
Learning Outcomes:	Upon completion of this subject, students will have an understanding of: # cellular organisation and processes in plants; # plant tissues; # photosynthesis, respiration and plant biochemistry; # typical plant growth patterns; # reproduction in the plant kingdom; and # angiosperm breeding and reproduction
Assessment:	A 60 minute examination 20% (mid-semester), a 90 minute examination 40% (end of semester), two laboratory reports each equivalent to 1500 words 30% (due during semester) and participation in subject 10%.
Prescribed Texts:	Evert, RF and Eichhorn, SE 2013 Raven Biology of Plants, 8th edn, WH Freeman, New York.

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:	Upon completion of this subject student should have: # an understanding of plant structure, growth and biochemical processes # the capacity to apply this knowledge to the conduct of practical research projects; and # the ability to source relevant scientific journal articles and incorporate them into scientific report writing.
Related Course(s):	Graduate Diploma in Urban Horticulture Master of Urban Horticulture