

# HORT90008 Horticultural Plant Science

<b>Credit Points:</b>	12.50
<b>Level:</b>	9 (Graduate/Postgraduate)
<b>Dates &amp; Locations:</b>	2012, Burnley This subject commences in the following study period/s: Semester 2, Burnley - Taught on campus.
<b>Time Commitment:</b>	Contact Hours: 48 hours comprising lectures (24 hours), practical sessions (24 hours). Total Time Commitment: 120 hours
<b>Prerequisites:</b>	None
<b>Corequisites:</b>	None
<b>Recommended Background Knowledge:</b>	None
<b>Non Allowed Subjects:</b>	None
<b>Core Participation Requirements:</b>	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 for 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: <a href="http://www.services.unimelb.edu.au/disability/">http://www.services.unimelb.edu.au/disability/</a>
<b>Coordinator:</b>	Dr Virginia Williamson
<b>Contact:</b>	<b>Melbourne School of Land &amp; Environment Student Centre</b> Ground Floor, Land & Food Resources (building 142) <i>Enquiries</i> Phone: 13 MELB (13 6352) Email: <a href="mailto:13MELB@unimelb.edu.au">13MELB@unimelb.edu.au</a> ( <a href="mailto:13MELB@unimelb.edu.au">mailto:13MELB@unimelb.edu.au</a> ) Subject Coordinator: <a href="mailto:vgw@unimelb.edu.au">vgw@unimelb.edu.au</a> ( <a href="mailto:vgw@unimelb.edu.au">mailto:vgw@unimelb.edu.au</a> )
<b>Subject Overview:</b>	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.
<b>Objectives:</b>	Upon completion of this subject, students will have an understanding of: <ul style="list-style-type: none"> <li># cellular organisation and processes in plants;</li> <li># plant tissues;</li> <li># photosynthesis, respiration and plant biochemistry;</li> <li># typical plant growth patterns;</li> <li># reproduction in the plant kingdom; and</li> <li># angiosperm breeding and reproduction</li> </ul>
<b>Assessment:</b>	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%.
<b>Prescribed Texts:</b>	Raven, P.H., Evert, R.F., Eichhorn, S.E. (2005) The Biology of Plants (7th Edition), New York. W.H. Freeman.

<b>Breadth Options:</b>	This subject is not available as a breadth subject.
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>
<b>Generic Skills:</b>	Upon completion of this subject student should have: <ul style="list-style-type: none"><li># the capacity to engage with issues within urban horticulture relevant to contemporary society;</li><li># an appreciation of social and cultural diversity from a regional to a global context; and</li><li># an advanced understanding of the changing knowledge base in the urban horticulture.</li></ul>
<b>Related Course(s):</b>	Graduate Diploma in Urban Horticulture Master of Urban Horticulture