

HORT10007 Plant Biology 1

Credit Points:	12.5
Level:	1 (Undergraduate)
Dates & Locations:	2016, Burnley This subject commences in the following study period/s: Semester 1, Burnley - Taught on campus.
Time Commitment:	Contact Hours: Lectures: 24 hours, Practicals: 27 hours, Tutorials: 12 hours = 63 hours Total Time Commitment: 170 hours
Prerequisites:	None
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	<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>
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Subject Overview:	This subject considers the evolution of plants, their structure and function, how they grow and reproduce, factors that inhibit growth, plant genetics and plant adaptations to particular environments. Laboratory practical classes will help students consolidate their understanding of the lecture material as well as provide exposure to lab-based experiments and the principles of experimental design.
Learning Outcomes:	On completion of this subject students should be able to: <ul style="list-style-type: none"> # be proficient in the use of the light microscope; # understand cellular organisation and transport mechanisms in plants; # identify different microscopic plant tissues; # have an awareness of the different photosynthetic regimes and their influence on plant growth and environmental tolerances; # comprehend how photosynthesis and water stress affect plant growth; # realise the importance of light to plant growth and development; # understand how different plants reproduce; and # appreciate how plant adaptations enable them to live in different environments.
Assessment:	Attendance at practical classes and assessments of practical workbook (25% of final mark), one mid-semester 1 hour written theory examination (25%), one mid-semester 30 minute practical test (12.5%), one final 1 hour written examination (25%) and one final 30 minute practical test (12.5%).
Prescribed Texts:	Evert, RF & Eichhorn, SE 2013, Raven Biology of Plants, 8th edn, WH Freeman & Company, New York.

Recommended Texts:	Bidlack, JE & Jansky, SH 2014, Stern's Introductory Plant Biology, 13th edn, McGraw-Hill, 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:	<ul style="list-style-type: none"> # Exercise problem-solving skills (developed through practical exercises and lecture discussions); # Think critically and organise knowledge (from consideration of the lecture material); # Expand from theoretical principles to practical explanations (through practical work observations); # Plan effective work schedules (to meet deadlines for submission of assessable work); and # Develop skills of critical observation and analysis through practical exercises.
Related Course(s):	Associate Degree in Environmental Horticulture Associate Degree in Urban Horticulture