

**BIOS 2051** 

## PLANT BIOLOGY

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<u>-&amp;.\$/"\("/4\$*E7*&amp;6</u> 2 <sup></sup> (Handbook Entry)	Basic plant biology including cell structure, plant morphology and anatomy, water and sugar transport, seed structure and germination, plant growth and development, leaves and photosynthesis, roots, micro-organisms and nutrition, evolution of land plants and plant taxonomy. A strong emphasis is placed on Australian native flora. Practical work includes light microscopy; plant anatomy, adaptation, diversity, and identification.
<u>-&amp;.\$/"\3*2/</u> 3\	The course is designed to provide an introduction to the biology of flowering plants.
97.0"67\8"#\$6*6?\ <.74&2"/ <sup>4</sup> \	By the end of this course, you will be able to: 1) Interpret the major aspects of functional and biological diversity of flowering plants; 2) Understand plant adaptations to life in terrestrial ecosystems; 3) Identify plants from the Australian flora; and 4) Integrate fundamental aspects of the biology of plants with current research issues in botany.
L ###&\$% L&E*/ /%	The diversity and evolution of flowering plants
:9,))#H./%<.7)*6";%	<ul> <li>Form and function of plant cells, tissues, organs, and body plans.</li> <li>Plant adaptation</li> <li>Plant identification</li> <li>The flora of Australia</li> </ul>
J ")#7*&6 / K*E%7&%<7K"\$% - & . \$ / " / %>*7K*6%7K"% A\$&?\$# 2 %	Flowering plants is the introductory botany course at UNSW. Flowering plants is assumed knowledge for plant ecosystems processes, and honours research in plant sciences. A background in the biology of plants will be valuable for all students continuing in biological, earth,

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J#7*&6#)"%'&\$%)"#\$6*6?%#60%	Learning and teaching in flowering plants will focus on applying fundamental aspects of plant
7" <b>#4K*6?</b> %*6%7K*/%4& <b>.</b> \$/" <sup>5</sup> %	biology to understanding plant diversity and adaptation. A significant part of the course will be in
*N"N%D&>%7K*/%4&.\$/"%*/%	exploring the relationship between topics in plant biology and current botany research
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I "#4K*6?%97\$#7"?*"/\\\\	Lectures will focus on providing the fundamentals of flowering plants. Information in lectures will be linked with examples of the adaptive or functional importance of key plant traits. Examples of the importance plant biology topics to current research will be given throughout the course.
	Labs are designed to provide an opportunity to explore and apply the knowledge presented in lectures. Several lab projects are designed to focus on the research-teaching nexus in plant biology.
D&>%7K"%#//"//2"67% /.EE&\$7/%#60%#//*/7/%7K"% )"#\$6*6?%%	Theory and practical exams will assess students' understanding of the topics in plant biology explored in this course. In lab assessments are designed to allow students to check their progress throughout the course. Two major assessments are designed for students to explore research topics in biology, and expose students to research facilities within the School of BEES

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<sup>&</sup>lt;sup>8</sup> Science CATEI procedure: http://www.science.unsw.edu.au/guidup:/.ssssss.s&

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