

## BOTA20002 Plant Biodiversity

<b>Credit Points:</b>	12.5																														
<b>Level:</b>	2 (Undergraduate)																														
<b>Dates &amp; Locations:</b>	2016, Parkville This subject commences in the following study period/s: Semester 2, Parkville - Taught on campus.																														
<b>Time Commitment:</b>	Contact Hours: 2 x one hour lectures per week, 1 x three hour practical class per week, 1 x one day field excursion Total Time Commitment: Estimated total time commitment of 170 hours																														
<b>Prerequisites:</b>	<p>EITHER</p> <p>One of</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>BIOL10004 Biology of Cells and Organisms</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>BIOL10002 Biomolecules and Cells</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table> <p>Plus one of</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>BIOL10005 Genetics &amp; The Evolution of Life</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>BIOL10001 Biology of Australian Flora &amp; Fauna</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>BIOL10003 Genes and Environment</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table> <p>OR</p> <p>Both of</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>BIOL10001 Biology of Australian Flora &amp; Fauna</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>BOTA20004 Flora of Victoria</td> <td>February</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	BIOL10004 Biology of Cells and Organisms	Semester 1	12.50	BIOL10002 Biomolecules and Cells	Semester 1	12.50	Subject	Study Period Commencement:	Credit Points:	BIOL10005 Genetics & The Evolution of Life	Semester 2	12.50	BIOL10001 Biology of Australian Flora & Fauna	Semester 2	12.50	BIOL10003 Genes and Environment	Semester 2	12.50	Subject	Study Period Commencement:	Credit Points:	BIOL10001 Biology of Australian Flora & Fauna	Semester 2	12.50	BOTA20004 Flora of Victoria	February	12.50
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<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 applications for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005) and Students Experiencing Academic Disadvantage Policy, this subject requires all students to actively and safely participate in practical class activities. Students who feel their disability may impact upon their participation are encouraged to discuss this with the Subject Coordinator and the Disability Liaison Unit. <a href="http://www.services.unimelb.edu.au/disability/">http://www.services.unimelb.edu.au/disability/</a>																														
<b>Coordinator:</b>	Dr Andrew Drinnan																														
<b>Contact:</b>	<a href="mailto:a.drinnan@unimelb.edu.au">a.drinnan@unimelb.edu.au</a> (mailto:a.drinnan@unimelb.edu.au)																														

<b>Subject Overview:</b>	<p>Terrestrial environments are dominated by a diversity of land plants, which define the structure of ecosystems and underpin terrestrial food webs. This subject introduces the major groups of land plants from liverworts to angiosperms and fungi, concentrating on their structure, biology, ecology, systematic relationships and evolution. It is relevant for students studying plant science and those focused on terrestrial environments and ecology. Topics covered include:</p> <ul style="list-style-type: none"> <li># evolution, relationships and classification of land plants;</li> <li># major groups of land plants, liverworts, mosses, ferns and seed plants; their structure, biology and fossil record;</li> <li># major families of flowering plants, including Australian flora, their characteristics, biology and identification;</li> <li># major groups of fungi and their biology.</li> </ul>
<b>Learning Outcomes:</b>	<p>After completion of the lecture and practical components of this subject, students should appreciate:</p> <ul style="list-style-type: none"> <li># the variety and classification of land plants and fungi;</li> <li># the biology and ecology of major plant groups;</li> <li># skills in plant identification, especially Australian flora;</li> <li># use of modern identification tools including computer-interactive keys;</li> <li># the concepts of modern phylogenetics for framing evolutionary hypotheses within and between major plant groups.</li> </ul>
<b>Assessment:</b>	<p>Two 1-hour practical tests during semester, one mid-semester and one at the end of the semester (10% each); written reports on practical work due during the semester (20%); a 3-hour written examination in the examination period (60%).</p>
<b>Prescribed Texts:</b>	<p>None</p>
<b>Breadth Options:</b>	<p>This subject potentially can be taken as a breadth subject component for the following courses:</p> <ul style="list-style-type: none"> <li># <b>Bachelor of Arts</b> (<a href="https://handbook.unimelb.edu.au/view/2016/B-ARTS">https://handbook.unimelb.edu.au/view/2016/B-ARTS</a>)</li> <li># <b>Bachelor of Commerce</b> (<a href="https://handbook.unimelb.edu.au/view/2016/B-COM">https://handbook.unimelb.edu.au/view/2016/B-COM</a>)</li> <li># <b>Bachelor of Environments</b> (<a href="https://handbook.unimelb.edu.au/view/2016/B-ENVS">https://handbook.unimelb.edu.au/view/2016/B-ENVS</a>)</li> <li># <b>Bachelor of Music</b> (<a href="https://handbook.unimelb.edu.au/view/2016/B-MUS">https://handbook.unimelb.edu.au/view/2016/B-MUS</a>)</li> </ul> <p>You should visit <b>learn more about breadth subjects</b> (<a href="http://breadth.unimelb.edu.au/breadth/info/index.html">http://breadth.unimelb.edu.au/breadth/info/index.html</a>) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.</p>
<b>Fees Information:</b>	<p>Subject EFTSL, Level, Discipline &amp; Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a></p>
<b>Notes:</b>	<p>This subject is available for science credit to students enrolled in the BSc (both pre-2008 and new degrees), BAsC or a combined BSc course.</p>
<b>Related Majors/Minors/Specialisations:</b>	<p>Botany          Botany          Science-credited subjects - new generation B-SCI and B-ENG.          Selective subjects for B-BMED</p>
<b>Related Breadth Track(s):</b>	<p>Australian flora</p>