

## BOTA30001 Marine Botany

<b>Credit Points:</b>	12.50						
<b>Level:</b>	3 (Undergraduate)						
<b>Dates &amp; Locations:</b>	This subject is not offered in 2013. Intensive field based subject held at the Victorian Marine Science Consortium Laboratory in Queenscliff. This subject is offered in intensive mode over two weeks in late November/early December. Students should contact the subject coordinator to confirm dates. An enrolment quota of 40 students applies to this subject this year. For detailed information on the quota subject application process, refer to the Quota Subject link on the Science Student Centre website: <a href="http://studentcentre.unimelb.edu.au/eastern/">http://studentcentre.unimelb.edu.au/eastern/</a>						
<b>Time Commitment:</b>	Contact Hours: 18 x one hour lectures, 9 x three hour practicals (in laboratory), 4 x three hour practicals (in field) Total Time Commitment: Estimated total time commitment of 80 hours						
<b>Prerequisites:</b>	25 points of first year level biology subjects plus 50 points of second year level biological sciences subjects or equivalent.						
<b>Corequisites:</b>	None						
<b>Recommended Background Knowledge:</b>	<table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>EVSC20004 Blue Planet-Intro to Marine Environments</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	EVSC20004 Blue Planet-Intro to Marine Environments	Semester 1	12.50
Subject	Study Period Commencement:	Credit Points:					
EVSC20004 Blue Planet-Intro to Marine Environments	Semester 1	12.50					
<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 work, laboratory work and fieldwork 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>Contact:</b>	School of Botany <b><a href="mailto:botany-enquiries@unimelb.edu.au">botany-enquiries@unimelb.edu.au</a></b> ( <a href="mailto:%20botany-enquiries@unimelb.edu.au">mailto:%20botany-enquiries@unimelb.edu.au</a> )						
<b>Subject Overview:</b>	<p>(An enrolment quota of 40 students applies to this subject)</p> <p>This subject will introduce students to the biology of seaweeds, seagrasses and protists (phytoplankton) from marine and estuarine habitats. Fieldwork focuses on the identification, diversity and ecology of Australia's unique marine flora. Topics to be covered include:</p> <ul style="list-style-type: none"> <li># biodiversity and evolution</li> <li># structure, life history and classification</li> <li># distribution and ecology</li> <li># human impacts and commercial uses</li> <li># gain, spread and loss of photosynthesis in protists</li> <li># role of phytoplankton in the marine environment</li> <li># toxic marine phytoplankton</li> </ul>						
<b>Objectives:</b>	<p>At the completion of the subject, students should have developed an understanding of:</p> <ul style="list-style-type: none"> <li># the biology, diversity and evolution of Australian marine plants and protists</li> <li># the unique nature of the Australian seaweed flora</li> <li># the role of algae in marine ecosystems</li> <li># practical skills in identifying common seaweeds and marine protists</li> <li># practical skills in processing, preserving and culturing marine plants and plankton</li> </ul>						

	<ul style="list-style-type: none"> <li># the diverse cell biology of marine protists</li> <li># current themes in algal research</li> </ul>
<b>Assessment:</b>	Two 20-minute laboratory progress tests, after Laboratory Practicals 5 and 9 (20%); preparation of 6 to 10 herbarium specimens (10%); a 2-hour end of subject laboratory examination (30%); a 2-hour end of subject written examination (40%).
<b>Prescribed Texts:</b>	None
<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/2013/B-ARTS">https://handbook.unimelb.edu.au/view/2013/B-ARTS</a>)</li> <li># <b>Bachelor of Commerce</b> (<a href="https://handbook.unimelb.edu.au/view/2013/B-COM">https://handbook.unimelb.edu.au/view/2013/B-COM</a>)</li> <li># <b>Bachelor of Environments</b> (<a href="https://handbook.unimelb.edu.au/view/2013/B-ENVS">https://handbook.unimelb.edu.au/view/2013/B-ENVS</a>)</li> <li># <b>Bachelor of Music</b> (<a href="https://handbook.unimelb.edu.au/view/2013/B-MUS">https://handbook.unimelb.edu.au/view/2013/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>	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>	<p>Upon completion of this subject, students should be capable of:</p> <ul style="list-style-type: none"> <li># Independent critical thought and rational enquiry</li> <li># Reading and interpreting technical literature</li> <li># Working as a team to perform scientific tasks</li> </ul>
<b>Notes:</b>	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.
<b>Related Majors/Minors/Specialisations:</b>	<p>Botany          Botany          Botany (pre-2008 Bachelor of Science)          Marine Biology          Plant Science          Science credit subjects* for pre-2008 BSc, BASc and combined degree science courses          Science-credited subjects - new generation B-SCI and B-ENG. Core selective subjects for B-BMED.</p>