

# ATOC20001 Weather and Climate Systems

<b>Credit Points:</b>	12.50								
<b>Level:</b>	2 (Undergraduate)								
<b>Dates &amp; Locations:</b>	This subject is not offered in 2014. Lectures, practical work and field work.								
<b>Time Commitment:</b>	Contact Hours: 2 x one hour lectures per week; 1 x two hour practical class per week; 2 days of field work on one weekend. Some practical work may take place at times decided by the students Total Time Commitment: Estimated total time commitment of 120 hours								
<b>Prerequisites:</b>	Students are required to have a knowledge of single variable calculus: # >=25 in VCE Unit 3/4 Mathematical Methods or Specialist Mathematics (or equivalent); or # 12.5 points in level 1 tertiary level mathematics (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>ERTH10001 The Global Environment</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table> <p>Some knowledge of physics would be an advantage</p>			Subject	Study Period Commencement:	Credit Points:	ERTH10001 The Global Environment	Semester 1	12.50
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ERTH10001 The Global Environment	Semester 1	12.50							
<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 of 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>Contact:</b>	<b>Email:</b> <a href="mailto:kevin.walsh@unimelb.edu.au">kevin.walsh@unimelb.edu.au</a> ( <a href="mailto:kevin.walsh@unimelb.edu.au">mailto:kevin.walsh@unimelb.edu.au</a> )								
<b>Subject Overview:</b>	This subject deals with weather systems ranging from global to human scales; the general circulation of the ocean and atmosphere; mesoscale systems and severe local weather; mid-latitude systems: extra-tropical cyclones and anti-cyclones; and low latitude systems: subtropical and tropical cyclones, heat lows and monsoons.								
<b>Learning Outcomes:</b>	On completion of this subject, students should comprehend the interactions between atmospheric energy on various scales; have developed skills in interpreting standard Bureau of Meteorology products; and have a quantitative understanding of weather and climate.								
<b>Assessment:</b>	Practical work/problem sheets, including a field trip report, totalling not more than 3500 words due during the semester (50%); a 2-hour written examination in the examination period (50%).								
<b>Prescribed Texts:</b>	None								
<b>Breadth Options:</b>	This subject potentially can be taken as a breadth subject component for the following courses: # <b>Bachelor of Arts</b> ( <a href="https://handbook.unimelb.edu.au/view/2014/B-ARTS">https://handbook.unimelb.edu.au/view/2014/B-ARTS</a> ) # <b>Bachelor of Commerce</b> ( <a href="https://handbook.unimelb.edu.au/view/2014/B-COM">https://handbook.unimelb.edu.au/view/2014/B-COM</a> ) # <b>Bachelor of Environments</b> ( <a href="https://handbook.unimelb.edu.au/view/2014/B-ENVS">https://handbook.unimelb.edu.au/view/2014/B-ENVS</a> ) # <b>Bachelor of Music</b> ( <a href="https://handbook.unimelb.edu.au/view/2014/B-MUS">https://handbook.unimelb.edu.au/view/2014/B-MUS</a> )								

	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.
<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>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>	Science credit subjects* for pre-2008 BSc, BAsC and combined degree science courses Science-credited subjects - new generation B-SCI and B-ENG. Selective subjects for B-BMED