

## 625-227 Weather and Climate Systems

<b>Credit Points:</b>	12.50
<b>Level:</b>	2 (Undergraduate)
<b>Dates &amp; Locations:</b>	2009, This subject commences in the following study period/s: Semester 1, - Taught on campus. Lectures and practical work.
<b>Time Commitment:</b>	Contact Hours: 24 lectures (two hours per week), 24 hours of practical work (two hours per week). Some practical work may take place at times decided by the students Total Time Commitment: 120 hours total time commitment.
<b>Prerequisites:</b>	Students are assumed to have taken some first-year mathematics and/or physics.
<b>Corequisites:</b>	None
<b>Recommended Background Knowledge:</b>	<i>The Earth, Atmosphere and Oceans</i> or 625-103 (prior to 2008) is recommended.
<b>Non Allowed Subjects:</b>	None
<b>Core Participation Requirements:</b>	It is University policy to take all reasonable steps to minimise the impact of disability upon academic study and reasonable steps will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact upon their active and safe participation in a subject are encouraged to discuss this with the relevant subject coordinator and the Disability Liaison Unit.
<b>Coordinator:</b>	Assoc Prof Kevin Walsh
<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>Objectives:</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 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/2009/D09">https://handbook.unimelb.edu.au/view/2009/D09</a> ) # <b>Bachelor of Commerce</b> ( <a href="https://handbook.unimelb.edu.au/view/2009/F04">https://handbook.unimelb.edu.au/view/2009/F04</a> ) # <b>Bachelor of Environments</b> ( <a href="https://handbook.unimelb.edu.au/view/2009/A04">https://handbook.unimelb.edu.au/view/2009/A04</a> ) # <b>Bachelor of Music</b> ( <a href="https://handbook.unimelb.edu.au/view/2009/M05">https://handbook.unimelb.edu.au/view/2009/M05</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>	Students enrolled in the BSc (both pre-2008 and new degrees), BASc or a combined BSc course will receive science credit for the completion of this subject.