

625-228 Atmospheric Environment Processes

Credit Points:	12.500
Level:	Undergraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 2, - Taught on campus.
Time Commitment:	Contact Hours: 24 lectures (two hours per week); 36 hours of practical work (three hours per week). Some practical work may be computer-based and take place at times decided by the students Total Time Commitment: 120 hours
Prerequisites:	Earth sciences 625-227.
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	Formerly available as 625-226. Students who have passed 625-226 may not enrol for this subject.
Core Participation Requirements:	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.
Coordinator:	Dr T Lane
Subject Overview:	<p>The subject addresses the fundamental processes and variables of atmospheric thermodynamics, stability and energetics and shows how these influence regional meteorological processes.</p> <p>Topics include fundamental atmospheric properties; observational methods; equations of motion and state, conservation of mass and energy; dry and moist thermodynamics; clouds and precipitation; air quality and air pollution; surface energy exchanges; boundary layer physics; and mesoscale processes.</p> <p>On completion of this subject, students should comprehend the fundamental processes of atmospheric thermodynamics, stability and energetics; and understand how these influence regional scale meteorological processes.</p>
Assessment:	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%).
Prescribed Texts:	None
Breadth Options:	<p>This subject is a level 2 or level 3 subject and is not available to new generation degree students as a breadth option in 2008.</p> <p>This subject or an equivalent will be available as breadth in the future.</p> <p>Breadth subjects are currently being developed and these existing subject details can be used as guide to the type of options that might be available.</p> <p>2009 subjects to be offered as breadth will be finalised before re-enrolment for 2009 starts in early October.</p>
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Notes:	Students enrolled in the BSc (pre-2008 BSc), BASc or a combined BSc course will receive science credit for the completion of this subject.