

625-332 Climate: Mechanisms & Variability

Credit Points:	25.000
Level:	Undergraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 2, - Taught on campus.
Time Commitment:	Contact Hours: 36 lectures (three per week) and 36 hours of practical work (three hours per week) Total Time Commitment: 120 hours
Prerequisites:	Earth sciences 625-227, 625-228; mathematics 620-141, 620-142, 620-143 or equivalent. Earth sciences 625-331 is recommended.
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
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:	Professor I H Simmonds
Subject Overview:	<p>Topics include the global climate as a holistic system; convection, radiation and cloud processes; remote sensing of the climate system; climate variability on various time scales, climate shifts and global warming; El Niño-Southern Oscillation in the historic period and relationships with longer time-scale variability; and the role of ice-sheets, Antarctic mass balance and large-scale water mass formation.</p> <p>On completion of this subject, students should have an understanding of the workings and connectedness of the climate system as a whole, and of climate variability.</p>
Assessment:	Weekly written reports of practical work of up to 500 words each during semester (35%); written assignments totalling up to 3000 words due during semester (10%); a 3-hour written examination in the examination period (55%).
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.
Related Course(s):	Bachelor of Arts and Bachelor of Science Bachelor of Arts and Sciences Bachelor of Science