ENST90011 Climate Variability and Climate Change

Credit Points:	12.5
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2015, Burnley This subject commences in the following study period/s: February, Burnley - Taught on campus. July, Burnley - Taught on campus.
Time Commitment:	Contact Hours: Each subject comprises five days intensive coursework delivery (approx 30 hours), recourse study and assessment components, totaling approximately 120 hours study commitment per subject. Total Time Commitment: 170 hours
Prerequisites:	To enrol in this subject, you must be admitted in the Graduate Certificate in Climate Change for Primary Industry (PC-CCPI) or Specialist Certificate in Climate Change for Primary Industries (GC-CCPI). This subject is not available for students admitted in any other courses.
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	For the purposes of considering requests for Reasonable Adjustments under the Disability Standards for Education (Commonwealth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Overview, Objectives, Assessment and Generic Skills sections of this entry. It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and the Disability Liaison Unit:http://www.services.unimelb.edu.au/disability/
Coordinator:	Prof David Karoly
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Subject Overview:	This subject introduces the fundamental processes and dynamics important for climate variability and climate change in the Australian region using both observations and climate models. There are discussions on the development of regional climate change scenarios using climate model outputs and their application for a range of climate change impact studies
Learning Outcomes:	On completion of this subject, students are expected to be better able to: # Assess the relative magnitudes of climate variability and climate change over different time scales in different Australian regions; # Evaluate future climate scenarios for assessing the range of potential impacts on global and regional conditions, incorporating the uncertainty associated with those scenarios, and; # Use current and projected meteorological data for developing policy and business decisions
Assessment:	oral presentation during intensive workshop (20 minutes, 20%), computer-based problem completed during the intensive workshop (data collection and interpretation, equivalent to one 1500 word essay) worth 10%, 3000 word report, being an analysis of climate scenarios in a specific region and for a specific industry, due four weeks after the intensive workshop (70%)
Prescribed Texts:	All class materials will be provided

Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	On completion of this subject, students are expected to be better able to: # Collect, evaluate and integrate information; # Work constructively with colleagues; respect the value of other points of view, and identify knowledge gaps and sources of uncertainty, and; # Prepare written documents of a high quality that clearly and convincingly inform the reader
Links to further information:	http://www.commercial.unimelb.edu.au/climatechange/
Related Course(s):	Graduate Certificate in Climate Change for Primary Industries Postgraduate Certificate in Climate Change for Primary Industries