Atmosphere and Ocean Science

Year and Campus:	2010
Coordinator:	Professor Ian SimmondsSchool of Earth Sciences
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Overview:	The Atmosphere and Ocean Sciences major will provide the springboard for students entering careers or research any area in which an understanding of how the fluid domains of the planet function is required. This includes fundamental research into climate modelling and prediction, the role of principal wind and ocean current systems, and how these interact with the land surface to influence weather, climate and hence the environment. Careers outside research may include government organisations such as the Bureau of Meteorology and CSIRO, or areas in the aerospace industry and management. Graduates will be prepared for these pathways by developing skills in acquiring and interpreting atmospheric and oceanic information, which are crucial to being prepared to make contributions in any research or industry setting. The Atmosphere and Ocean Sciences major will provide the springboard for students entering careers or research any area in which an understanding of how the fluid domains of the planet function is required. This includes fundamental research into climate modelling and prediction, the role of principal wind and ocean current systems, and how these interact with the land surface to influence weather, climate and hence the environment. Careers outside research may include government organisations such as the Bureau of Meteorology and CSIRO, or areas in the aerospace industry and management. Graduates will be prepared for these pathways by developing skills in acquiring and interpreting atmospheric and oceanic information, which are crucial to being prepared to make contributions in any research or industry setting. This major will integrate knowledge from a range of disciplines from field-based studies to more theoretical aspects atmospheric dynamics and climate forcing. Students will complete a sequence of specialist subjects as well as integrated subjects in which they develop an understanding of how these may be applied to solve outstanding questions about the Earth's atmosphere, oceans and land surfaces influence changes to our environment. Students will gain experience preparing them for the workplace by participating in hands-on project work that requires careful time management and the clear communication of results.
Objectives:	.
Structure & Available Subjects:	Completion of 50 points of study at third year level
Subject Options:	All four of

Subject	Study Period Commencement:	Credit Points:
ATOC30004 Dynamical Meteorology and Oceanography	March	12.50
ATOC30005 Global Climates of the Past	March	12.50
ATOC30006 Modern and Future Climate	Semester 2	12.50
ATOC30003 Atmosphere Ocean Interaction	Semester 2	12.50

Related Course(s):	Bachelor of Science