Governments, businesses, and community organisations are increasingly seeing the benefit of implementing climate change strategies into their short and long-term decision-making processes. The growing focus on identification of future opportunities, and implementation of risk reduction and adaptation strategies is creating demand for people who understand the complex relationships between climate and natural and human systems.

In 2014, Macquarie will be offering three dedicated postgraduate climate change units. The units will take a multidisciplinary approach to climate change, its impacts and mitigation and adaptation and are designed to provide students with a sound fundamental understanding of the physical science of climate change, as well as the legal, economic, environmental and social facets of the issue. Enrolment in the units can be through one of a number of Master, Diploma, and Certificate programs.

Students will be taught by nationally and internationally respected experts who are at the forefront of climate change research and who are active in advising governments and international bodies.

Academic Staff

**Professor Sandy Harrison**  
(Palaeoclimatologist, INQUA, iLeaps)

**Professor Lesley Hughes**  
(Ecologist, IPCC Lead author)

**A/Professor Ian Goodwin**  
(Climate Risk, Marine and Palaeoclimatologist)

**A/Professor Paul Beggs**  
(Environmental Health Scientist, IPCC author and Eureka Prize winner)

**A/Professor Andrew McGregor**  
(Political Ecology)

**Dr Linda Beaumont**  
(Climate Change Ecologist)

For more information please contact:

Professor Sandy Harrison  
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Associate Professor Andrew McGregor  
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Course: Climate Change Impacts - CLIM803

Offered: S2 On Campus (North Ryde)

Description: This unit focuses on the impacts of climate change, both those already observed and projections for the twenty-first century, on components of the earth system including the physical environment, the marine and terrestrial biosphere, biodiversity, ecosystems goods and services, and human health and well-being. Management and adaptation to climate-change impacts will be highlighted from a multi-disciplinary perspective and the unit will also address the social and economic costs of dealing with these impacts.

Contact: Dr Paul Beggs, School of Environment and Geography
Email: paul.beggs@mq.edu.au Phone: 9850 8399

Course: Climate Change and the Climate System - CLIM804

Offered: S1 On-Campus (North Ryde), S1 External

Description: This unit focuses on the scientific framework for understanding the mechanisms of climate change, and covers (a) the physics of the climate system, (b) the multiple drivers of climate change, (c) the role of physical and biogeochemical feedbacks in the climate system, (d) climate change projections, and (e) how socio-economic, biophysical and biogeochemical feedbacks could modulate future changes. It will provide students with the background to critically evaluate current understanding of the complex interactions that determine climate trajectories and the reliability of the tools used to make climate-change and climate-impact projections.

Contact: Professor Sandy Harrison, School of Biological Sciences
Email: sandy.harrison@mq.edu.au Phone: 9850 5248

Course: Climate Change: Policies, Management and Adaption - CLIM805

Offered: S2 On-Campus (North Ryde), S2 External (with compulsory on-campus dates)

Description: This unit focuses on the legal and socio-economic frameworks for understanding mitigation and adaptation to climate change, and covers (a) the legal and regulatory frameworks for climate change, (b) technological and economic strategies for climate mitigation, (c) risk management, (d) the ethical context of climate change specifically with respect to sustainability and cultural diversity and (e) climate-change governance. It also examines human adaptation to climate change from a diversity of perspectives. It will provide students with the background to critically evaluate the complex interactions that influence human responses to climate change and our ability to change future climate trajectories through political, economic and legislative means.

Contact: Associate Professor Andrew McGregor, School of Environment and Geography
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