Climate Change

Year and Campus:	2010
Coordinator:	Dr. Stefan Arndt, Associate ProfessorDepartment of Forest and Ecosystem Science
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Overview:	Climate change mitigation and adaptation are increasingly being integrated into business management, government policy and technology design, requiring expertise in a range of fields including international conventions, strategic government and business policy, climate science, energy technology, economic analysis and management. Effective solutions therefore require a new generation of policymakers, managers and scientists equipped with a multidisciplinary understanding of climate change issues. The "climate change" specialised stream of study within the Master of Environment is ideal for students seeking an interdisciplinary perspective on climate change, for work in policy-making and/or business advisory roles. Graduates will be well-placed to offer leadership through a solid understanding of: theoretical and practical applications of policy and science; technological limits, potentials and risks; and the value of addressing a wide-ranging global environmental issue from a trans-disciplinary perspective. Additionally, the stream presents an opportunity for students to establish extensive networks with fellow climate change professionals across a broad range of industries, sectors and fields of endeavour.
Objectives:	Students who complete the Master of Environment (MEnv, in which course the climate change specialised stream of study exists) will have: # An advanced understanding of environmental issues # Advanced skills and techniques applicable to changing and managing the environment # An ability to evaluate and synthesise research and professional literature in the chosen stream or focus of study # An advanced understanding of the international context and sensitivities of environmental assessment. The graduate attributes for the MEnv are: # Expertise in multidisciplinary understanding, analysis and research with an environmental focus. Collaborative approaches to environmental problem solving. Capacity to engage in critical social and sustainability questions." And the MEnv generic skills are: # Multidisciplinary and trans-disciplinary knowledge and research of environmental relevance. # Collaborative environmental management skills. # Capacity for independent learning across disciplinary boundaries. In addition, the Climate Change Stream will provide a pathway for people with policy, management and scientific qualifications to extend their climate change knowledge and expertise. Graduates may find employment in State and Federal Government authorities, environmental consulting companies, business advisory and strategic policymaking positions worldwide. The Master of Environment Climate Change Stream should provide a pathway to further study and prepare students for entry to middle and upper management positions by: # Developing knowledge, skills, understanding and competence in the area of climate change science and policy tools; # Developing a thorough approach to climate change through an understanding of the biological, economic, social and environmental factors surrounding climate change issues both within Australia and internationally; # Increasing knowledge and analytical capabilities appropriate to climate change; # Developing competence in the design, conduct and analysis of research questions and experimental work, particularly for those students interested in pursuing a research career; and # Extending scholarly and critical attitudes in climate change studies.

The Master of Environment Climate Change Stream will be distinguished by a commitment to:

Learning and teaching based on the best available research in climate change sciences and policy discourse;
A respect for the intellectual maturity and diversity of experience in the student cohort;
Pedagogies that promote independent critical inquiry, analysis and reflection; and
The full utilization of human and material resources of the Faculties contributing subjects to the stream.

Structure & Available Subjects:

Master of Environment 100 points: Students will be required to complete the two core subjects, plus at least three subjects from the compulsory subject list, plus electives to make up the balance of the award Master of Environment (100 points) – usually 8 subjects in total.

Master of Environment 200 points: Students will be required to complete the two core subjects, plus at least three subjects from the compulsory subject list, plus electives to make up 100 points – usually 8 subjects in total. For the remaining 100 points, students can select from the list of subjects comprising the Graduate Environmental Program as a whole, which can be seen at: **http://www.oep.unimelb.edu.au/currentstudents/master_of_environment/subjectlist (http://www.oep.unimelb.edu.au/currentstudents/master_of_environment/subjectlist)**

The selection of electives will be made in consultation with the relevant academic advisor – in this case the Climate Change Stream Co-ordinator, Dr. Stefan Arndt.

Subjects offered within the stream will be offered by the following schools and faculties: Land and Environment; Science; Education; Law; Business and Economics; Engineering; Architecture, Building; Arts; and Medicine, Dentistry and Health Sciences.

Subject Options:

Core Subjects

Students are required to complete the subjects:

Subject	Study Period Commencement:	Credit Points:
MULT90005 Trans-disciplinary thinking & learning	Semester 2	12.50
MULT90004 Sustainability Policy and Management	March	12.50

Compulsory Subjects

All Climate Change stream students must complete at least three of the following:

Subject	Study Period Commencement:	Credit Points:
ENST90004 Climate Change Politics and Policy	Semester 1	12.50
AGRI90057 Climate Change:Agric.Impacts&Adaptation	June	12.50
FRST90016 Trees in a Changing Climate	May	12.50
FRST90032 Forests, Carbon and Climate Change	June	12.50
ATOC90002 Climate Affairs	Semester 2	12.50
LAWS70293 Climate Change Law	April	12.50

Elective Subjects

All Climate Change stream students may choose other subjects from these:

Subject	Study Period Commencement:	Credit Points:
121-525 The Political Ecology of Development	Not offered 2010	12.50
ENST90002 Social Impact Assessment and Evaluation	Semester 2	12.50
EVSC90015 Environmental Impact Assessment	Semester 1	12.50

HPSC90010 Environment and Knowledge	Semester 1	12.50
ENST90005 Environmental Policy	Semester 2	12.50
NRMT40001 Emerging Issues in Land Resources	Semester 2	12.50
HORT90003 Plants and the Urban Environment	Semester 1	12.50
EVSC90001 Global Environment and Sustainability	February	12.50
NRMT90014 Sustainable Landscapes	Semester 1	12.50
GEOG90006 Fundamentals & Management of GIS	Semester 1	12.50
NRMT90017 Leadership	February	12.50
220-502 Bushfire & Climate	Not offered 2010	12.50
220-506 International Forest Policy	Not offered 2010	12.50
FRST90033 Farm Trees & Agroforestry	April	12.50
ECON90016 Environmental Economics and Strategy	Semester 1	12.50
MGMT90019 Strategic Management	Semester 1, Semester 2	12.50
MGMT90022 Managing Organisational Change	March	12.50
MGMT90121 Decision Analysis and Project Management	Semester 1, Semester 2	12.50
ENEN90005 Environmental Management ISO 14000	Semester 2	12.50
ENEN90011 Energy Efficiency Technology	Semester 2	12.50
ENEN90014 Sustainable Buildings	September	12.50
ENEN90016 Engineering for Sustainable Environments	February	12.50
ENEN90027 Energy for Sustainable Development	Semester 1	12.50
EDUC90006 Environmental Education	Semester 1	12.50
POPH90075 Living Longer: Global Perspectives	Semester 1	12.50
EVSC90009 Problem Solving in Environmental Science	Semester 2	12.50
EVSC90010 Environmental Risk Assessment	Semester 1	12.50
EVSC90014 Environmental Risk Assessment	November	12.50
EVSC90016 Environmental Monitoring and Audit	Semester 2	12.50
EVSC90017 Global Environmental Change	Semester 1	12.50
CHEM90007 Environmental Chemistry	Semester 2	12.50
ATOC90004 Current Topics in Atmospheric Science	March	12.50
ATOC90007 Mesoscale Atmospheric Dynamics	Semester 1	12.50
LAWS70068 Environmental Law	September	12.50
LAWS70219 International Environmental Law	September	12.50
ENST90006 Environmental Research Review	Semester 1, Semester 2	12.50
ENST90007 Environmental Research Topic	Semester 1, Semester 2	25

	ENST90016 Environmental Research Project	Semester 1, Semester 2	50
	ENST70001 Environmental Research Proj (long) MYE	Semester 1, Semester 2	50
Related Course(s):	Master of Environment Master of Environment		