Climate Change

Year and Campus:	2015
Coordinator:	Associate Professor Stefan Arndt, Faculty of Science
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Overview:	Climate Change is offered as a major field of study in the Master of Environment degree. 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 major is ideal for students seeking an interdisciplinary perspective on climate change, for work in policy-making 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, this major 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. Graduates of this major can expect to find employment in State and Federal Government authorities, environmental consulting companies, business advisory and strategic policymaking positions worldwide

Learning Outcomes:	Students who complete the Master of Environment will have:
	# Knowledge to undertake professional practice in environment or sustainability, including:
	  # Specialised knowledge in an environmental discipline or field of practice, including knowledge of recent developments in this field
	  # Knowledge of the cross-disciplinary nature of environmental issues and professional practice to promote sustainable futures
	  # Knowledge of research principles and methods applicable to specialist field of environmental inquiry
	# Skills for collaborative and creative problem solving in environmental practice, including:
	  # Ability to critically analyse and synthesise environmental knowledge
	  # Ability to envision environmental change and propose pathways to realise this change
	  # Ability to communicate complex environmental knowledge and research effectively to a range of audiences
	  # Ability to work effectively in cross-disciplinary teams
	  # Technical skills for professional practice and research in field of specialisation
	# Demonstrated capacity to:
	The Climate Change major will 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.
Structure & Available Subjects:	Students completing a Climate Change specialisation in the Master of Environment will complete two core subjects and at least three subjects from a list of compulsory specialisation subjects. Students will complete at least 25 points of subjects selected from a list of compulsory 'capstone' subjects which will enable students to plan and execute a substantial project in an area related to climate change. Students will choose the remainder of subjects from an approved subject list in consultation with the coordinator of the Climate Change stream. A full list of Climate Change stream subjects can be found here: **http://environment.unimelb.edu.au/courses/streams/climate_change (http://environment.unimelb.edu.au/courses/streams/climate_change)**
Subject Options:	**Core Subjects** Students must comple the following core subjects:

Subject	Study Period Commencement:	Credit Points:
MULT90004 Sustainability Governance and Leadership	March, July	12.50
MULT90005 Interdisciplinarity and the Environment	Semester 2	12.50

Compulsory Specialisation Subjects

Students must complete three subjects from the following list of compulsory specialisation subjects:

Subject	Study Period Commencement:	Credit Points:
AGRI90057 Climate Change:Agric.Impacts&Adaptation	June, July	12.50
ATOC90002 Climate Affairs	Semester 2	12.50
ENST90004 Climate Change Politics and Policy	Semester 2	12.50
FRST90032 Forests, Carbon and Climate Change	June	12.50
LAWS70293 Climate Change Law	May	12.50
EVSC90017 Global Environmental Change	Semester 1	12.50
ENST90033 Climate Change Mitigation	Semester 2	12.50
ENST90034 Adapting to Climate Change	April	12.50

Compulsory Capstone Experience

Students must complete at least 25 points from the following compulsory capstone subjects - please note that if you select either a 25 or 50 point subject that spreads across two semesters you must enrol into the subject in both semesters (your student centre will be able to assist with this).

Subject	Study Period Commencement:	Credit Points:
ENST90006 Environmental Research Review (12.5)	Semester 1, Semester 2	12.50
ENST90007 Environmental Research Project (25)	Semester 1, Semester 2	25
ENST90024 Environmental Research Project - 25 Long	Semester 1, Semester 2	12.50
ENST90016 Environmental Research Project (50)	Semester 1, Semester 2	50
ENST70001 Environmental Research Proj (50 Long)	Semester 1, Semester 2	25
ENST90025 Environmental Industry Research (25)	Semester 1, Semester 2	25

ENST90026 Environmental Industry Research: 25 Long	Semester 1, Semester 2	12.50
ENST90020 Environmental Industry Research (50)	Semester 1, Semester 2	50
ENST70002 Environmental Industry Research: 50 Long	Semester 1, Semester 2	25
DEVT90002 Internship in Development	January, Semester 1, Semester 2	12.50
DEVT90008 International Internship in Development	January, Semester 1, Semester 2	25
FRST90035 Forest Internship Project	Year Long	25
AGRI90076 Industry Internship	Summer Term, Semester 1, Semester 2	12.50

Elective Subjects

Students should make up the balance of the award with electives chosen from the list below:

Subject	Study Period Commencement:	Credit Points:
ENEN90014 Sustainable Buildings	September	12.50
ECON90016 Environmental Economics and Strategy	Semester 1	12.50
ENEN90005 Environmental Management ISO 14000	Semester 2	12.50
ENEN90011 Energy Efficiency Technology	Semester 2	12.50
ENEN90027 Energy for Sustainable Development	Semester 1	12.50
ENST90002 Social Impact Assessment and Evaluation	Semester 2	12.50
ENST90005 Environmental Policy	Semester 2	12.50
ENST90017 Environmental Policy Instruments	Semester 2	12.50
EVSC90001 Global Environment and Sustainability	February	12.50
EVSC90014 Environmental Risk Assessment	November	12.50
EVSC90015 Environmental Impact Assessment	Semester 1	12.50
EVSC90016 Environmental Monitoring and Audit	Semester 2	12.50
EVSC90020 Environmental Modelling	Semester 1	12.50
FRST90025 Bushfire & Climate	March	12.50
HPSC90010 Environment and Knowledge	Semester 1	12.50
LAWS70068 Environmental Law	September	12.50
NRMT40001 Emerging Issues in Land Resources	Not offered 2015	12.50
NRMT90014 Sustainable Landscapes	Semester 1	12.50
NRMT90017 Leadership	February	12.50
FRST90016 Trees in a Changing Climate	November	12.50
DEVT90001 Project Management & Design	Semester 1	12.50
POPH90230 Environmental Challenges & Global Health	July	12.50

	HORT90039 Green Infrastructure for Liveable Cities	November	12.50
	FRST90034 Ecological Restoration	September	12.50
	EVSC90009 Problem Solving in Environmental Science	Semester 2	12.50
	LAWS70219 International Environmental Law	October	12.50
	GEOM90008 Foundations of Spatial Information	Semester 1	12.50
	FOOD90026 The Politics of Food	Semester 1	12.50
	ENST90032 Sustainability and Behavioural Change	Semester 1	12.50
	FRST90033 Farm Trees & Agroforestry	October	12.50
	EDUC90006 Environmental Education	Semester 1	12.50
	ENST90022 Contemporary Environmental Issues A	Not offered 2015	12.50
	MGMT90121 Decision Analysis and Project Management	October	12.50
	NRMT90014 Sustainable Landscapes	Semester 1	12.50
	FRST90032 Forests, Carbon and Climate Change	June	12.50
	ABPL90120 Building Sustainability	September	12.50
	EDUC90006 Environmental Education	Semester 1	12.50
Related Course(s):	Master of Environment		