

Sustainable Forests

Year and Campus:	2011
Coordinator:	Dr Chris Weston
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Overview:	<p>Sustainable Forests is offered as a major field of study in the Master of Environment degree.</p> <p>Forest landscapes and ecosystems have a massive impact on all our lives as evidenced by the 2009 bush fires in Victoria. The Sustainable Forests major looks at issues related to management of carbon, water, fire and biodiversity at landscape scales in relation to forests with a view to making them more sustainable. We study the challenges of fire management, the role of forests; In climate change management, environmental policy and timber and non-timber production.</p> <p>Study biological, economic, social and environmental factors that impact on forests; the development of forest and natural resource management enterprises both in Australia and internationally, and carbon sequestration and water resource management.</p> <p>Students can expect to develop skills in forest ecosystem sciences; sustainable forest management; and the design, conduct and analysis of forestry research.</p> <p>Suitable for professionals and aspiring entrants to the forest and natural resource management sectors, we will prepare you for middle and upper management positions within the forest and natural resource management and provide a pathway to further study.</p>
Objectives:	<p>Students who complete the Master of Environment will have:</p> <ul style="list-style-type: none"> • 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 <p>The graduate attributes for the Master of Environment are:</p> <ul style="list-style-type: none"> • 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 <p>The Master of Environment generic skills are:</p> <ul style="list-style-type: none"> • Multidisciplinary and trans-disciplinary knowledge and research of environmental relevance • Collaborative environmental management skills • Capacity for independent learning across discipline boundaries <p>The Sustainable Forests major will prepare professionals and aspiring entrants to the forest and natural resource management sectors for management positions within the forest and natural resource management sectors by:</p> <ul style="list-style-type: none"> • Developing knowledge, skills, understanding and competence in the area of forest ecosystem sciences; • Developing a thorough approach to forest sciences and sustainable forest management through an understanding of the biological, economic, social and environmental factors which shape the development of forest and natural resource management enterprises both in Australia and internationally, including climate change science and water resource management; • Increasing knowledge and analytical capabilities appropriate to forest and ecosystem science and related specialist disciplines; • Developing competence in the design, conduct and analysis of research questions and experimental work, particularly for those students interested in pursuing a research career; • Extending scholarly and critical attitudes in forest and natural resource management disciplines.
Structure & Available Subjects:	<p>Students will be required to complete the two core subjects, plus choose three subjects from the compulsory subject list and undertake electives to make up the balance of the award. The selection of electives is made in consultation with the Sustainable Forests major coordinator.</p> <p>For a current list of subjects offered in the Sustainable Forests major, please refer to the course information page at: http://www.oep.unimelb.edu.au/currentstudents/</p>

master of environment/specialist paths of study/sustainable forests
 (http://www.oep.unimelb.edu.au/currentstudents/master_of_environment/specialist_paths_of_study/sustainable_forests)

Subject Options:

Core Subjects

Students are required to complete the subjects:

Subject	Study Period Commencement:	Credit Points:
MULT90005 Trans-disciplinary Thinking & Learning	Not offered 2011	12.50
MULT90004 Sustainability Policy and Management	March	12.50

Compulsory Subjects

and choose 3 subjects from the list of:

Subject	Study Period Commencement:	Credit Points:
FRST90015 Forest Ecosystems	February	12.50
FRST90020 Silviculture & Forest Dynamics	August	12.50
FRST90021 Sustainable Forest Management	July	12.50
FRST90022 Forests and Water	August	12.50
FRST90026 Bushfire & Biodiversity	May	12.50
FRST90029 International Forest Policy	Not offered 2011	12.50
FRST90032 Forests, Carbon and Climate Change	June	12.50
FRST90034 Ecological Restoration	September	12.50

Elective Subjects

plus undertake electives to make up the balance of the award. The recommended list of electives includes::

Subject	Study Period Commencement:	Credit Points:
HPSC90010 Environment and Knowledge	Not offered 2011	12.50
NRMT90004 Conservation Genetics	Not offered 2011	12.50
FRST90016 Trees in a Changing Climate	May	12.50
FRST90025 Bushfire & Climate	July	12.50
FRST90030 Forests in the Asia Pacific Region	November	12.50
FRST90031 Sustainable & Renewable Forest Products	October	12.50
FRST90033 Farm Trees & Agroforestry	May	12.50
ECON90016 Environmental Economics and Strategy	Semester 1	12.50
CVEN90019 Sustainable Water Resources Systems	Not offered 2011	12.50
GEOM90008 Foundations of Spatial Information	Not offered 2011	12.50
EDUC90006 Environmental Education	Semester 1	12.50
EVSC90010 Environmental Risk Assessment	Semester 1	12.50
BOTA90005 Flora of Victoria	February	12.50

	GEOL90005 Hydrogeology	Semester 1	12.50
	ATOC90002 Climate Affairs	Semester 2	12.50
	ECOL90002 Conservation Biology	Not offered 2011	12.50
	BIOL90002 Biometry	July	12.50
	ABPL90009 Participation and Negotiation	September	12.50
	LAWS70068 Environmental Law	September	12.50
	LAWS70219 International Environmental Law	May	12.50
	ENST90006 Environmental Research Review	Semester 1, Semester 2	12.50
	ENST90007 Environmental Research Topic	Semester 1, Semester 2	25
	ENST90018 Environmental Research Topic	Semester 1, Semester 2	37.50
	ENST90016 Environmental Research Project	Semester 1, Semester 2	50
	ENST70001 Environmental Research Proj (long) MYE	Semester 1, Semester 2	25
Links to further information:	http://www.environment.unimelb.edu.au		
Notes:	Other subjects may be approved at the discretion of the coordinator.		
Related Course(s):	Master of Environment Master of Environment		