

Energy Studies

Year and Campus:	2012											
Coordinator:	Dr Lu Aye (Engineering)											
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Overview:	<p>Energy Studies is offered as a major field of study in the Master of Environment degree.</p> <p>The amount of energy we consume as a global society is immediately impacted by the technologies we use to consume that energy, and how that energy is produced.</p> <p>The Energy Studies major is concerned with the theoretical and practical needs of professionals working in energy use and planning. A range of technologies, both mainstream and non-conventional, can be used for energy supply. We study these technologies and how they can be applied in energy planning and energy end use. We also examine the social and political factors influencing the acceptance of energy technologies.</p> <p>The Energy Studies major is a great way of accessing elements of an engineering education for students with an undergraduate degree in other disciplines. Graduates can expect to find employment in energy agencies, utility companies, industry, education, and consultancy.</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 											
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 Energy Studies major coordinator.</p> <p>For a current list of subjects offered in the Energy Studies major, please refer to the course information page at: http://www.oep.unimelb.edu.au/currentstudents/master_of_environment/specialist_paths_of_study/energy_studies (http://www.oep.unimelb.edu.au/currentstudents/master_of_environment/specialist_paths_of_study/energy_studies)</p>											
Subject Options:	<p>Core Subjects</p> <p>Students are required to complete the subjects:</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>MULT90005 Interdisciplinarity and the Environment</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>MULT90004 Sustainability Policy and Management</td> <td>March</td> <td>12.50</td> </tr> </tbody> </table> <p>Compulsory Subjects</p>			Subject	Study Period Commencement:	Credit Points:	MULT90005 Interdisciplinarity and the Environment	Semester 2	12.50	MULT90004 Sustainability Policy and Management	March	12.50
Subject	Study Period Commencement:	Credit Points:										
MULT90005 Interdisciplinarity and the Environment	Semester 2	12.50										
MULT90004 Sustainability Policy and Management	March	12.50										

and choose 3 subjects from the list of:

Subject	Study Period Commencement:	Credit Points:
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
ENEN90033 Solar Energy	Semester 1	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:
ENST90002 Social Impact Assessment and Evaluation	Semester 2	12.50
EVSC90015 Environmental Impact Assessment	Semester 1	12.50
ANTH90001 Heritage and Cultural Environments	Semester 2	12.50
DEVT90009 Understanding Development	Semester 1	12.50
NRMT90003 Social Research Methods	Semester 1	12.50
ECON90016 Environmental Economics and Strategy	Semester 1	12.50
ENEN90014 Sustainable Buildings	September	12.50
EVSC90010 Environmental Risk Assessment	Semester 1	12.50
CHEM90007 Environmental Chemistry	Semester 1	12.50
MAST90007 Statistics for Research Workers	June	12.50
ABPL90120 Building Sustainability	September	12.50
LAWS70068 Environmental Law	September	12.50
ENEN90031 Quantitative Environmental Modelling	Semester 1	12.50
ENEN90032 Environmental Analysis Tools	Semester 2	12.50
EVSC90014 Environmental Risk Assessment	November	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	25
ENST90020 Environmental Research - Industry C	Semester 2	50
ENST70002 Environmental Research - Industry D	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
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