

Energy Studies

| Year and Campus: | 2011 | | | | | | | | | | | | | | | | | |
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| Coordinator: | Dr Lu Aye (Engineering) | | | | | | | | | | | | | | | | | |
| Contact: | l.aye@unimelb.edu.au | | | | | | | | | | | | | | | | | |
| 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 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 Trans-disciplinary Thinking & Learning</td> <td>Not offered 2011</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 and choose 3 subjects from the list of:</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>ENEN90005 Environmental Management ISO 14000</td> <td>Not offered 2011</td> <td>12.50</td> </tr> </tbody> </table> | | | Subject | Study Period Commencement: | Credit Points: | MULT90005 Trans-disciplinary Thinking & Learning | Not offered 2011 | 12.50 | MULT90004 Sustainability Policy and Management | March | 12.50 | Subject | Study Period Commencement: | Credit Points: | ENEN90005 Environmental Management ISO 14000 | Not offered 2011 | 12.50 |
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| MULT90005 Trans-disciplinary Thinking & Learning | Not offered 2011 | 12.50 | | | | | | | | | | | | | | | | |
| MULT90004 Sustainability Policy and Management | March | 12.50 | | | | | | | | | | | | | | | | |
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| ENEN90005 Environmental Management ISO 14000 | Not offered 2011 | 12.50 | | | | | | | | | | | | | | | | |

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| ENEN90011 Energy Efficiency Technology | Not offered 2011 | 12.50 |
| ENEN90027 Energy for Sustainable Development | Not offered 2011 | 12.50 |
| ENEN90033 Solar Energy | Not offered 2011 | 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 | Not offered 2011 | 12.50 |
| NRMT90003 Social Research Methods | March | 12.50 |
| ECON90016 Environmental Economics and Strategy | Semester 1 | 12.50 |
| CVEN90012 Hydrological Processes 1 | Not offered 2011 | 12.50 |
| CVEN90014 Hydrological Processes 2 | Not offered 2011 | 12.50 |
| ENEN90014 Sustainable Buildings | Not offered 2011 | 12.50 |
| POPH90142 Epidemiology & Analytic Methods 1 | Not offered 2011 | 12.50 |
| EVSC90010 Environmental Risk Assessment | Semester 1 | 12.50 |
| CHEM90007 Environmental Chemistry | Semester 1 | 12.50 |
| MAST90007 Statistics for Research Workers | February, June | 12.50 |
| ABPL90120 Building Sustainability | Not offered 2011 | 12.50 |
| LAWS70068 Environmental Law | September | 12.50 |
| ENEN90031 Quantitative Environmental Modelling | Not offered 2011 | 12.50 |
| ENEN90032 Environmental Analysis Tools | Not offered 2011 | 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