

Integrated Water Catchment Management

Year and Campus:	2010																								
Coordinator:	Dr Robert Edis																								
Contact:	roberte@unimelb.edu.au																								
Overview:	<p>With global climate change and more extreme weather conditions, water catchments have never been under more pressure, and professionals with skills in their management are in high demand.</p> <p>Catchment management involves the integration of sound biophysical information with social and economic analysis. This is used to achieve the best outcomes for a catchment's natural resources and the people who live and work there.</p> <p>Studying with us, you'll look into the functioning of catchments and the constraints to improving catchment management; particularly, how these constraints can be eased.</p> <p>Integrated Catchment Management is appropriate for professionals working in soil and water regulation, land management, and conservation in the private and public sectors.</p> <p>We're looking for students with a first degree in physical science, life science, social science, engineering, forestry, horticulture or agriculture. Professional geologists, natural resource scientists and managers who wish to gain advanced knowledge of catchment management strategies in urban and rural environments would also benefit from studies in this field.</p> <p>You can expect to find employment in regulatory agencies, local and state government authorities, environmental consulting companies, and industries concerned with land development, recreation and tourism.</p>																								
Objectives:	<p>Students who complete the Master of Environment will have:</p> <ul style="list-style-type: none"> # An advanced understanding of the ideas concerning 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 																								
Structure & Available Subjects:	The subjects available are listed below.																								
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>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 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>207-509 Case Studies in Catchment Management</td> <td>Not offered 2010</td> <td></td> </tr> <tr> <td>AGRI90066 Soil Science and Management</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>CVEN90019 Sustainable Water Resources Systems</td> <td>July</td> <td>12.50</td> </tr> <tr> <td>GEOL90005 Hydrogeology</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table> <p>Elective Subjects Students select electives to make up the balance of the award. The recommended list of electives includes:</p>	Subject	Study Period Commencement:	Credit Points:	MULT90005 Trans-disciplinary thinking & learning	Semester 2	12.50	MULT90004 Sustainability Policy and Management	March	12.50	Subject	Study Period Commencement:	Credit Points:	207-509 Case Studies in Catchment Management	Not offered 2010		AGRI90066 Soil Science and Management	Semester 1	12.50	CVEN90019 Sustainable Water Resources Systems	July	12.50	GEOL90005 Hydrogeology	Semester 1	12.50
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Subject	Study Period Commencement:	Credit Points:
EVSC90015 Environmental Impact Assessment	Semester 1	12.50
ENST90002 Social Impact Assessment and Evaluation	Semester 2	12.50
EVSC90015 Environmental Impact Assessment	Semester 1	12.50
ENST90005 Environmental Policy	Semester 2	12.50
NRMT90002 Management of Plant and Animal Invasions	Semester 2	12.50
NRMT90003 Social Research Methods	Semester 1	12.50
ECON90016 Environmental Economics and Strategy	Semester 1	12.50
421-516 Hydraulics and Hydrology	Not offered 2010	
CVEN90012 Hydrological Processes 1	Semester 1	12.50
CVEN90014 Hydrological Processes 2	Semester 1	12.50
421-668 Sustainable Irrigation System Management	Not offered 2010	
GEOM90005 Remote Sensing	Semester 2	12.50
GEOM90008 Foundations of Spatial Information	Semester 1	12.50
POPH90142 Epidemiology & Analytic Methods 1	March	12.50
EVSC90010 Environmental Risk Assessment	Semester 1	12.50
CHEM90007 Environmental Chemistry	Semester 2	12.50
ATOC90002 Climate Affairs	Semester 2	12.50
ABPL90064 Planning Urban Sustainability	Semester 2	12.50
LAWS70068 Environmental Law	September	12.50
730-816 Water Law	Not offered 2010	
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
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	