MASTER OF Environmental Management & Development

CRAWFORD SCHOOL

www.crawford.anu.edu.au

ANU COLLEGE OF ASIA & THE PACIFIC
Master of
ENVIRONMENTAL
MANAGEMENT &
DEVELOPMENT

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CRAWFORD SCHOOL
SCHOOL OF ECONOMICS & GOVERNMENT
The AUSTRALIAN National University

The Australian National University consistently ranks as one of the best universities in Australia and the world. The ANU has been ranked 1st in Australia and 16th in the world by the Times Higher Education Supplement (October 2008).

The ANU through the Master of Environmental Management and Development offers:

- a recognised degree from a leading Australian and world university.
- the option of six specialisations, with a broad list of elective units, giving you extensive freedom of choice to suit your career aspirations.
- excellent lecturers with extensive research, industry and public sector experience both in Australia and internationally.
- flexible teaching timetables to help fit in with work and home demands.
- excellent networking opportunities to mix with public sector and industry professionals from throughout Australia and the Asia Pacific region.

Sullivan’s Creek, ANU Campus
CRAWFORD SCHOOL

The Crawford School is the Australian National University’s policy school serving Australia, Asia and the Pacific through advanced policy research and professional training. Crawford focuses on public policy, public administration, environmental management, economics, governance and international policy in Australia and its region in its graduate and executive training.

As a student you will be part of the lively discussion and learning that keeps our School at the forefront of public policy in Australia and internationally. Our master degrees provide pathways into higher research that informs, stimulates and adds to the vibrancy and intellect within our School.

Visit www.crawford.anu.edu.au for further information about our School.

Introductory ACADEMIC PROGRAM

If your application is successful, international students (non-Australian citizens) are required to attend and satisfactorily complete the Introductory Academic Program. This is held prior to the beginning of each semester in January and June.

Topics covered include orientation to the academic system, academic writing and presentation work, research techniques, economics, environmental science, introductory statistics and the use of computers and the University’s libraries and electronic information sources. Domestic Australian students (Australian citizens) are encouraged to attend a short induction program, conducted just prior to the start of each semester. This program offers an informal social gathering of Crawford School academics and staff together with new students, at which information about enrolment, teaching programs and academic research is presented.
STUDY OPTIONS

There are several options with different study entry-level requirements depending on your academic qualifications and work experience, as well as your academic progress while studying. Students usually choose:

1. entry at the Graduate Diploma level in the first year and then moving onto the Master level for the second year
   or
2. direct entry into Master level.

All programs can be commenced in Semester 1 (February) or 2 (July). Students wishing to complete the Coursework and Research option of the Masters degree must commence studies in Semester 1 only.

Master of Environmental Management & Development

The Master Program may be taken as a coursework-only degree or as a coursework and research project degree – in which half the degree is research based.

Minimum: 8 courses
Usual duration: 1 year full-time (2 semesters) or 2 to 4 years part-time
Delivery: Internal
Structure: Coursework or Coursework and Research degree options

Advanced Study

Upon completion of the Master course, students may go on to advanced research study such as a PhD.

Graduate Diploma in Environmental Management & Development

Minimum: 8 courses
Usual duration: 1 year full-time (2 semesters) or 2 to 4 years part-time
Delivery: Internal
Structure: Coursework only

Graduate Certificate in Environmental Management & Development

Minimum: 4 courses
Usual duration: 6 months full-time (1 semester) or 1 to 2 years part-time
Delivery: Internal and External (fully online)
Structure: Coursework only
The Master of Environmental Management and Development (MEMD) prepares students for careers in a wide range of organisations in government, the private sector and non-profit organizations, equipping students with advanced knowledge and skills appropriate to leadership roles. The degree deepens and broadens your knowledge of social, ecological and economic concepts underpinning economic development and environmental management decisions.

The degree will meet the needs of professionals working in both industrialized and developing economies. Case studies of projects from both economies are frequently used to illustrate the application of integrated biophysical and socioeconomic approaches to environmental management issues.

**Entry Requirements**

Applicants should hold, or expect to hold:

- qualifications equivalent to a degree of Bachelor with first or upper second class Honours from an Australian University; or
- a Graduate Diploma awarded with an overall average of 65 per cent or higher; or
- qualifications equivalent to a degree of Bachelor from an Australian University, and substantial relevant work experience, as determined by the Delegated Authority.

**Study Plans**

Master students must select between ‘Coursework Only’ and the ‘Coursework and Research’ options.

**Coursework Only Option**

<table>
<thead>
<tr>
<th>Compulsory Courses - at least 30 units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Government, Markets and Global Change</td>
</tr>
<tr>
<td>Methods for Environmental Decision-Making</td>
</tr>
<tr>
<td>Environmental Assessment</td>
</tr>
<tr>
<td>Environmental Governance</td>
</tr>
<tr>
<td>Tools &amp; Processes for Environmental &amp; Resource Management</td>
</tr>
<tr>
<td>Plus three relevant electives to make up an overall total of 48 units</td>
</tr>
</tbody>
</table>

**Coursework and Research Option**

<table>
<thead>
<tr>
<th>Compulsory Courses - at least 48 units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Government, Markets and Global Change</td>
</tr>
<tr>
<td>Methods for Environmental Decision-Making</td>
</tr>
<tr>
<td>Environmental Assessment</td>
</tr>
<tr>
<td>Environmental Governance</td>
</tr>
<tr>
<td>Tools &amp; Processes for Environmental &amp; Resource Management (equal to 2 courses)</td>
</tr>
<tr>
<td>Research Project (equal to 2 courses)</td>
</tr>
</tbody>
</table>
Elective Courses

Many relevant electives are available within the Crawford School and from other related teaching areas throughout the ANU. Refer to page 16 Course Descriptions for details.

- Economic Globalisation and the Environment
- International Water Politics
- Climate Change Policy Economics
- Asia Pacific Environmental Conflicts
- Agricultural Economics and Resource Policy
- Applied Economics: Cost/Benefit Analysis
- Corruption and Anti-Corruption
- Environmental Economics
- Law and the Environment
- Policy Advocacy
- Political Institutions and Policy Processes
- Poverty Reduction
- Introduction to Social Impact Studies

Plus other approved ANU courses.

Specialisations

Students who are undertaking a Master of Environmental Management and Development can choose to specialise in one of the following seven fields.

**Economics and Business**
- CRWF8001 Economic Globalisation and the Environment
- IDEC8088 Applied Economics: Cost/Benefit Analysis
- IDEC8053 Environmental Economics
- IDEC8018 Agricultural Economics and Resource Policy
- BUSN7017 Sustainability and Corporate Social Responsibility

**Water Management**
- CRWF8003 International Water Politics
- ENVS6555 Water Resource Management
- LAWS8123 Water Resources Law
- ENVS6504 Land and Catchment Management
- ENVS6208 Hydrology for Natural Resource Management

**Governance and Policy**
- EMDV8009 Asia Pacific Environmental Conflicts
- CRWF8009 Energy Politics and Governance
- POGO8082 Political Institutions and Policy Processes
- INTR8045 Global Governance
- POGO8976 Corruption and Anti-Corruption

**Climate Change**
- CRWF8006 Climate Change Policy Economics
- ENVS8003 Climate Change Vulnerability and Adaptation
- INTR8045 Global Governance

**Society and Environment**
- POGO8004 Poverty Reduction
- POGO8008 Participation and Program Management
- ANTH8007 Key Concepts in Anthropology of Development
- ANTH8028 Social Impact Studies in the Project Cycle

**Law and Policy**
- CRWF8002 Federalism and Decentralisation
- POGO8082 Political Institutions and Policy Processes
- POGO8083 Policy Advocacy
- LAWS6503 Law and the Environment
The Graduate Diploma degree improves students’ theoretical and applied knowledge of environmental management issues. The Graduate Diploma is designed as a pathway into the Master program. Grounded in the philosophy of sustainable development, the program develops an integrated understanding of economics, ecology and social sciences.

**Entry Requirements**

Applicants should hold, or expect to hold, qualifications equivalent to a degree of Bachelor from an Australian University.

**Program Structure**

The Graduate Diploma requires the satisfactory completion of five compulsory courses and three approved electives.

**Compulsory Courses – at least 30 units**

- Environmental Science for Managers
- Environmental Sustainability, Health and Development
- Environmental Communications
- Introduction to Environmental & Resource Economics
- State, Society and Natural Resources

Plus suitable electives to make up an overall total of 48 units for the degree.

**Elective Courses**

Many relevant electives are available within the Crawford School and from other related teaching areas throughout the ANU. A suggested list is available on page 17.

*Daniel Payne – MEMD (Australia)*
Graduate Certificate in ENVIRONMENTAL MANAGEMENT & DEVELOPMENT

The Graduate Certificate degree is designed to allow students to gain a good understanding of environmental management and development issues. It allows students to freely select the courses that particularly interest them.

Students may choose to enter directly into the Graduate Certificate degree as an entry point for more advanced coursework degree programs. Alternatively, students who are unable to fully complete the Graduate Diploma or Masters Degree may choose to take out the Graduate Certificate after satisfactorily completing four courses.

Entry Requirements

Applicants should hold, or expect to hold, qualifications equivalent to a degree of Bachelor from an Australian University.

Program Structure

Satisfactory completion of four courses is required from the compulsory and elective courses offered within the Master and Graduate Diploma. Please refer to page 16 for Course Descriptions.

Flexible Delivery

Commencing in 2009, the Graduate Certificate is offered by both on-campus delivery and externally (fully online). This flexible delivery makes it possible to fit learning into even the busiest working and family lifestyle.

Combined DEGREE in DIPLOMACY

Master of Diplomacy/Master of Environmental Management and Development

This combined degree requires the completion, at Distinction average, of the Master of Environmental Management and Development before progressing onto a further six months of full-time study, intensive study in the Master of Diplomacy program at the Asia-Pacific College of Diplomacy.
TEACHING and TIMETABLES

Classes are taught through a combination of seminars, lectures and workshops, and assessed through written assignments, presentations and some exams. Debate and open discussion amongst students form an important part of the learning experience. Some courses are offered in intensive mode, consisting of a number of hours or days that are spaced over the semester.

Courses taken towards the Graduate Certificate will be offered externally (fully online) for the first time in 2009.

Crawford School FACULTY

Our lecturers are highly influential and respected in their fields for their research and teaching excellence. You will benefit from their extensive knowledge, experience and ongoing participation in public policy debate both in Australia and within the Asia Pacific region.

As a student at Crawford, you will have access to a large pool of academics and support staff, and you can take advantage of Crawford-wide courses, and electives from other degree programs to enrich your learning experience.

Visit www.crawford.anu.edu.au/staff for information on staff and listings of their publications.
Faculty teaching in this program include

**Associate Professor Luca Tacconi**
Director, Environmental Management and Development. Associate Professor Tacconi has an extensive published research history, having worked in many distinguished national and international agencies and for several governments around the world. His work is focused on improving knowledge about the theory and the management of natural resources in order to support policies and initiatives aimed at reducing rural poverty and conserving natural resources. His current research and teaching focuses on environmental governance and deforestation and climate change policies. His research has been supported by the European Union, Japanese, Indonesian, the United States, Vanuatu and Australian governments as well as the World Bank and conservation agencies amongst others.


**Professor Jeff Bennett**
Professor Bennett has over 30 years experience researching, consulting and teaching in the fields of Environmental Economics, Natural Resource Economics, Agricultural Economics and Applied Micro-Economics. He completed a term as President of the Australian Agricultural and Resource Economics Society in 2004 and remains on the Federal Council of the Society, is a member of the Academic Advisory Council of the Centre for Independent Studies and a coordinator of the Australian Journal of Agricultural and Resource Economics. In 2007, he was appointed Director of the Environmental and Economics Research Hub. His current research interests focus on the development and application of techniques to estimate the value of non-marketed environmental benefits and costs, and, the analysis of alternative institutional structures that give private owners/managers of natural resources the incentive to provide environmental benefits.


**Dr Daniel Connell**
Dr Connell is also a Research Fellow with the ANU Water Initiative. His research and expertise are focused on people and their environment in the Murray-Darling Basin 1750–2050; cultural and institutions dimensions of water management; design of institutions involved with environmental management; international cross-jurisdictional water management and related cultural, political and environmental issues; and the hydrological dimensions of climate change. His most recent book is *Water Politics in the Murray-Darling Basin* (Federation Press 2007).


**Dr Emma Aisbett**
Dr Aisbett is also a Research Fellow with the Economics Program, Research School of Social Sciences. Her research and expertise are focused on impacts of globalisation on developing countries; economic globalisation and the environment; foreign direct investment and political risk; and private property rights vs. government rights to regulate for environmental protection.


**Dr John McCarthy**
Dr McCarthy researches and teaches in the areas of environmental governance and rural development. He has carried out research and various assignments with non-government organisations, donor agencies and research institutions in Australia and internationally concerned with nature conservation and forest management, decentralization, qualitative research, environmental assessment, conflict, co-management, fisheries, agrarian change and agricultural policy. His most recent book is *The Fourth Circle: A Political Ecology of Sumatra’s Rainforest Frontier* (Stanford University Press 2006).


**Professor Stephen Howes**
Prior to joining the Crawford School, Professor Howes was Chief Economist at the Australian Agency for International Development. He worked from 1994 to 2005 at the World Bank, first in Washington and then in Delhi, where he was Lead Economist for India. He spent most of 2008 on the Garnaut Review on Climate Change. Research interests include aid policy, public finance in developing countries, international climate change policy, India, PNG and the Pacific.


**Christine Adams**
Christine Adams is the Academic and Research Skills Advisor for the Environmental Management and Development Program.

Language requirements

Minimum language requirements in the International English Language Testing System (IELTS), required for all programs is an overall IELTS result of 6.5 with a minimum of 6.0 in each component of the IELTS.

Students on development assistance scholarships, e.g. AusAID, the Asian Development Bank or the World Bank, require a overall IELTS score of 6.0, with a minimum of 6.0 in writing and 5.5 in the remaining components of the test to enter the Graduate Diploma.

Minimum language requirements in the Test of English as a Foreign Language (TOEFL) – paper based test – total score of 570 OR Computer based test – total score of 230 PLUS a score of 4.5 in the Test of Written English (TWE) OR Internet-based test – total score of 90 with 20 in all four sections.

Students on development assistance scholarships, e.g. AusAID, the Asian Development Bank or the World Bank, require paper based test – total score of 550 OR Computer based test – total score of 213 PLUS a score of 4.5 in the TWE OR Internet-based test – total score of 79 with 18 in all four sections to enter the Graduate Diploma.

In addition to the University's English language requirements, visa conditions vary for each country. Assessment Level 3 and 4 countries, require you to sit IELTS exams ONLY for your visa application. You should contact the closest Australian diplomatic mission for more information or see the Department of Immigration and Multicultural Affairs website http://www.immi.gov.au. Students on Visa Subclass 576 AusAID are considered Assessment Level 2.
HOW DO I APPLY?

Online
Applications can be made online at http://students.anu.edu.au/apply_online.asp. Search for the Crawford School within the Academic Group drop-down function. An application fee is required for international students.

By Post
Application details and application forms can be sourced from http://studyat.anu.edu.au or by contacting the Program Administrator, Dianne Dunne, T: +61 2 6125 5628 or E: dianne.dunne@anu.edu.au. Your application should go directly to the ANU Admissions Office. An application fee is required for international students.

IMPORTANT: Please ensure that you include an up-to-date CV and certified copy of your academic transcript with your application.

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>CODE NUMBER</th>
<th>CRICOS CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Environmental Management and Development</td>
<td>7804</td>
<td>029997M</td>
</tr>
<tr>
<td>Graduate Diploma in Environmental Management and Development</td>
<td>6805</td>
<td>012059D</td>
</tr>
<tr>
<td>Graduate Certificate in Environmental Management and Development</td>
<td>6904</td>
<td>013520B</td>
</tr>
<tr>
<td>Master of Diplomacy/Master of Environmental Management and Development</td>
<td>7894</td>
<td>051830F</td>
</tr>
</tbody>
</table>

Kathryn Michie – MEMD (Australia)
Viveka Simpson – MEMD (Australia)
SCHOLARSHIPS

The Australian Government supports the Crawford School’s graduate programs at all levels. In addition to Australian Government (AusAID) scholarships, the Crawford School is endowed with several other prestigious international scholarships.

Full-time Domestic Students

Austudy
The Master of Environmental Management and Development degree has been listed with Centrelink as an approved course for student income support (i.e., Youth Allowance <25yrs old, or Austudy >25yrs old). To be eligible to claim student income support you must be enrolled FULL-TIME and be studying on-campus. Note: FULL-TIME is defined as at least ¾ of the standard full-time load.

To find out more information and how to apply please go to http://www.centrelink.gov.au/internet/internet.nsf/individuals/st_index.htm

Commonwealth Scholarships Program
The Master of Environmental Management and Development has been listed as an approved course for the Commonwealth Scholarships Program, for those eligible to apply.

For more information about this scholarship program, and eligibility criteria, go to http://www.dest.gov.au/sectors/higher_education/programmes_funding/programme_categories/scholarships_awards_prizes/commonwealth_learning_scholarships_programme.htm

ANU funds and administers a range of scholarships for PhD study. The University also administers a number of scholarships funded by the Australian Government and other sources external to the University. The University’s aim is to attract research degree applicants who have a proven capacity for research. For more information on scholarships for higher research degrees please go to http://www.anu.edu.au/graduate/scholarships/index.php

International Students

The Asian Development Bank has chosen the Crawford School to educate Master degree students from key government ministries and non-government organisations throughout the developing world. We have been delivering these programs successfully for many years. The Crawford School also manages scholarships for the Ford Foundation International Fellowships Program and receives World Bank scholars.

Other developing country governments routinely send their senior people to study at the Crawford School on government scholarships. For example the Vietnamese Government sends a number of PhD scholars and the Bhutanese Government sends a number of Master-level scholars each year to study at the Crawford School.

For further information and application details visit www.crawford.anu.edu.au/prospectivestudents
A Guide to Expenses for International Students

Indicative weekly living expenses for single student

<table>
<thead>
<tr>
<th>Item</th>
<th>Weekly Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rent: on campus in a self-catered Hall or College</td>
<td>A$157-A$200</td>
</tr>
<tr>
<td>Rent: off-campus (shared)</td>
<td>A$90-A$180</td>
</tr>
<tr>
<td>Food</td>
<td>A$100-A$130</td>
</tr>
<tr>
<td>Public Transport</td>
<td>A$25</td>
</tr>
<tr>
<td>Misc. - including books, stationery, telephone calls, etc.</td>
<td>A$15</td>
</tr>
</tbody>
</table>

For a single student, you will probably require A$12,000 to A$14,000 per year for living expenses. Should you want to bring your family with you, you will have to stay off-campus and it will probably cost an extra A$7,000 per year for your spouse and A$4,000 per year for each child (not including school fees, if your children are of school age).

Indicative annual tuition fees for graduate student 2009

<table>
<thead>
<tr>
<th>Course</th>
<th>Annual Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-week Preparatory Program</td>
<td>A$3,150</td>
</tr>
<tr>
<td>Graduate Diploma</td>
<td>A$25,200</td>
</tr>
<tr>
<td>Master</td>
<td>A$25,200</td>
</tr>
<tr>
<td>PhD</td>
<td>A$28,800</td>
</tr>
<tr>
<td>Overseas Student Health Cover</td>
<td>A$380</td>
</tr>
<tr>
<td>Family cover</td>
<td>A$760</td>
</tr>
</tbody>
</table>

Current conditions for working while studying

<table>
<thead>
<tr>
<th>Course</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduate Diploma Students</td>
<td>Students can work a maximum of 20 hours per week during the term and unlimited hours when their academic course is not in session. Dependent family members can work a maximum of 20 hours per week throughout the year.</td>
</tr>
<tr>
<td>Master and PhD Students</td>
<td>Students can work a maximum of 20 hours per week during the term and unlimited hours when their academic course is not in session. Dependent family members can work full-time throughout the year.</td>
</tr>
</tbody>
</table>
The University Accommodation Services (UAS) provide a variety of services to the ANU community to assist students find accommodation. They can help provide information about renting, off-campus housing, shared accommodation, on-campus residential accommodation and financial assistance.

Important: If students wish to live on campus, they must apply online at the time of receiving their ANU offer.

**Students with Families**

The student residences are not suitable for children and no facilities for children are provided. Living off campus is the preferred option for families and will allow them to be closer to schools and other family oriented services.


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**ANU FACILITIES and services**

**Computer Laboratories**

ANU has many computer laboratories on campus. These include PC labs, Macintosh labs and Unix labs. The Crawford School has 55 PCs in three computer labs, plus a dedicated wireless lounge for students’ own laptops.

**Library**

ANU has an extensive library facility comprising nine locations on campus.

Visit [http://anulib.anu.edu.au](http://anulib.anu.edu.au)

**Student Associations**

There are a wide variety of sporting and social associations available to students. The Crawford School itself has a student association and ANU supports the Post Graduate Students’ Association (PARSA), which concerns itself with the welfare of postgraduates at ANU. All postgraduate students are members of PARS.


**Alumni**

The Crawford School and ANU have an active alumni network through which you will be able to stay in touch with your student colleagues after your studies are completed.


**Other sources of information**

- [www.anu.edu.au](http://www.anu.edu.au)
- [www.crawford.anu.edu.au](http://www.crawford.anu.edu.au)
ANU commands a magnificent position between lake and mountain in the centre of the nation’s capital, Canberra. Canberra is the political capital of Australia, housing the Federal Parliament and is the major city of the self-governing province, the Australian Capital Territory (ACT).

Canberra is also a cultural centre for Australia, with many attractions of national significance such as the National Gallery of Australia and the National Museum of Australia. Canberra is located approximately three hours’ drive south-west of Sydney and seven hours’ drive north of Melbourne. If you enjoy the ocean, it is a two hour drive to the beautiful beaches of the south coast of New South Wales. If you enjoy the bush, Namadji National Park, covering 1,000 square kilometres, is right on Canberra’s doorstep.

Visit here for more information and links to other useful websites http://info.anu.edu.au/Discover_ANU
COURSE DESCRIPTIONS

Master Core Courses

**EMDV8103 Environmental Assessment**
Policies drive environmental outcomes. Accordingly, we need to develop ways to consider how policies create and deal with pressing environmental issues as well as mechanisms to force actions in order to improve outcomes. This course provides students with an understanding of the theory and practice of the Environmental Assessment (EA) approaches that are the principal means of integrating environmental considerations into governmental decision making. Students consider how EAs have evolved since the 1960s to become the primary strategies for institutionalising environmental reform; how EAs work as policy instruments within the policy cycle; the role of science in environmental decision making; public participation in EA; and evaluating EA effectiveness in the light of the political, social and economic contexts in which they operate. In the second half of the course, together with a leading environmental consultant, students learn to apply the basic principles of environmental assessment to critically assess development proposals, develop public consultation strategies, evaluate monitoring and mitigation in environmental management plans, and consider how Strategic Environmental Assessment (SEA) principles might be built into decision making.

**CRWF8000 Government, Markets and Global Change**
This course introduces you to the way in which societies manage some of the most important common policy problems confronting them now and into the future, including how to encourage economic growth and how to provide for sustainability of natural resources. It covers the basic principles underlying the conduct of government institutions, such as good governance and democracy. In doing so, it draws on multiple disciplines particularly economics and political science, and serves as a general framework for advanced policy studies. The course is comparative in scope, drawing examples from around the world — including Australia, Asia and the Pacific — and indicating points in common as well as differences between states.

**EMDV8104 Environmental Governance**
The objectives of the course are to develop the student’s capacity to think critically about environmental governance problems and to devise solutions for problems at the local, national and global levels. The questions that will guide the work throughout the semester include: What is environmental governance? What are the principles of good environmental governance? How can good environmental governance be designed and implemented? To address these questions, the course examines processes and instruments of environmental governance by considering theories and empirical studies. It focuses on theories and issues relating to national and international governance, public policy formation, common property management, market and nonmarket incentives for resource management, decentralisation, civil society organisations and corporate environmental behaviour.

**EMDV8002 Methods for Environmental Decision-Making**
This course is designed to provide students with specialist skills used to gather, integrate and interpret information useful to the environmental decision-making process. It builds upon the knowledge of environmental and resource management tools covered in **EMDV 8102 Tools and Processes for Environmental and Resource Management**. The skills provided include cost/benefit analysis, contingent valuation, choice modeling, travel cost analysis, hedonic methods, bio-economic modelling, social surveying, risk and uncertainty integration.

**EMDV8102 Tools and Processes for Environmental and Resource Management (6 units)**
The course introduces students to qualitative and quantitative research methods and processes used by the social sciences to study environmental and resource management. The course will increase students’ knowledge of how research is designed and implemented.
and will enable them to assess the quality of research being done as an input to policymaking. Topics covered include types of environmental and resource management problems, the role of social sciences and research processes; research ethics; designing quantitative research, causality and hypothesis testing; concepts, measures, and types of variables; statistics, correlation and regression; sampling, surveys, questionnaires, and interviews; designing qualitative research and the case study approach; qualitative policy analysis tools; and participatory rural appraisal.

EMDV8010 Tools and Processes for Environmental and Resource Management (12 units)
The course introduces students to qualitative and quantitative research methods used by the social sciences to study sustainable environmental management. The course will increase students’ knowledge of how research is designed and implemented and will enable them to assess the quality of research required as an input into policy making. The course will involve the development of a research proposal that will be implemented in the second semester as part of the Research Project course. This course is a pre-requisite for EMDV8066 Research Project.

EMDV8009 Asia Pacific Environmental Conflicts
Conflicts over access to, and control of, resources have been a constant in human history. Rational policies to manage increasingly scarce resources often result in seemingly irrational reactions, many of which are rooted in specific cultural values and misunderstandings as much as varying stakeholder aims and objectives. This course combines conflict and conflict resolution theory with region and resource specific case studies as they evolve over time to provide a broad-based toolkit for analysing the causes of resource conflicts and seeking feasible and enduring solutions. Emphasis is placed on the fluidity of circumstances and changing mindsets over time.

CRWF8001 Economic Globalisation and the Environment
The impact of globalisation on the natural environment is an important and politically charged question. This course will examine the mechanisms through which the economic (e.g. trade and foreign investment flows) and institutional (e.g. international trade and investment agreements) aspects of globalisation affect the natural environment both locally and globally. Primarily using an economic approach, the course will present both theory and evidence and explain the discrepancies between the two. The course will also examine the bases on which vastly different claims about the impact of globalisation on the environment are made.

CRWF8003 International Water Politics
Forty per cent (40%) of the world’s population draws its water from hydrological systems that cross national borders. Inability to manage those hydrological systems across borders has significantly reduced the capacity of the societies that depend on them to respond effectively to competing demands, environmental degradation, the erosion of resource security and emerging issues such as climate change. Better management of the world’s water resources is an international priority, both for the welfare of the people immediately affected and for those nations whose security could be threatened by population movements driven by water scarcity or water-induced conflicts. The course provides an overview of the issues that together constitute the world water crisis and gives participants the opportunity to undertake a substantial investigation of a particular subject of their choice.

CRWF8006 Climate Change Policy Economics
This course will introduce students to international climate change policy. It will study the global growth of emissions, various approaches to estimating the damage of climate change and the cost of mitigation, the international framework for cooperation on climate change as it evolves (from Kyoto through Bali towards Copenhagen), and the economics and international politics of global public good provision. On this basis, the course will go on to analyze existing approaches and the main proposed international policy and institutional options for mitigating and adapting to climate change.

Master Elective Courses

CRWF8001 Economic Globalisation and the Environment
CRWF8003 International Water Politics
CRWF8006 Climate Change Policy Economics
EMDV8009 Asia Pacific Environmental Conflicts
IDEC8018 Agricultural Economics and Resource Policy
Examines the different analytical frameworks by which agricultural and natural resource policy issues may be assessed. Includes issues relating to common property and property rights, resource rent and rent-seeking behaviour, the new institutional economics, public choice issues and performance assessment. Policy issues covered includes the allocation of water, greenhouse admissions, rural restructuring, fisheries policy, land use and environment, and international trade.

IDEC8088 Applied Economics: Cost/Benefit Analysis
Explains the financial analysis of projects and provides an understanding of the theoretical rationale for modern cost/benefit analysis (CBA). Emphasis will be on case studies with particular stress on the handling of environmental issues. Opportunities will be provided to learn a thorough working knowledge of its application in developing countries.

POGO8076 Corruption and Anti-Corruption
There is increasing international concern with official and political corruption. Corruption can deter or distort investment, and undermine the legitimacy of governments. Democratisation may create new opportunities for it, as well as closing off others. Corruption is a complex and controversial concept, but most countries have laws and policies against some forms of it. Several Australian States have created anti-corruption commissions which have developed approaches to preventing and investigating political and administrative corruption. This course was designed and developed with the New South Wales Independent Commission Against Corruption. It aims to combine theoretical understanding of corruption with the latest practice in prevention and investigation. It is the only course of its type. It is taught intensively over three weeks, including a fieldtrip to Sydney for presentations by ICAC officials. Written work may be submitted several weeks after the teaching finishes.

IDEC8053 Environmental Economics
The course focuses on the following questions:
1) What is efficient and sustainable use of the environment?
2) What prevents us from sustainably managing the environment?
3) What approaches can we use to improve environmental and natural resource management?

The course is structured around themes such as the dynamics of the environment, property rights, economics of pollution control, renewable resources, non-renewable resources and scarcity, introduction to environmental valuation, and the global environment. As much as possible, attention will be given to the modelling of environmental problems, especially in the tutorials and assignments.

Keshab Raj Goutam – MEMD (Nepal), and his wife at graduation, December 2008
LAWS6503 Law and the Environment
(This course is for non-law students only). This course seeks to examine Environmental Law from theoretical and practical perspectives. It will examine the sources of Environmental Law, looking at the roles of the common law, of statutes and the growing importance of International Law. It will also look at environmental regulation, including economic approaches to land-use control, planning and licensing systems, environmental decision-making, enforcement of environmental controls through criminal and civil means and alternative sanctions, and environmental litigation. The course will also look at philosophical and ethical bases for environmental protection, as well as a detailed examination of the role of scientific evidence in environmental decision making.

POGO8083 Policy Advocacy
‘Policy advocacy’ here refers to the ‘winning ways’ of convincingly communicated policy advice. The course examines policy practices of networking and coalition-building associated with evidence based analysis and argument by policy advocates in and out of government. The focus is on the art of ‘policy entrepreneurship’ in order to prepare students for professional responsibilities managing processes of policy advice and advocacy.

POGO8082 Political Institutions and Policy Processes
Public policy is a puzzling phenomenon. Why do governments declare some social conditions to be problems that warrant the commitment of scarce public resources? And why do different governments that confront similar problems address them in different ways? Why are there often such big gaps between the stated policy and what is actually delivered to citizens? Policy analysis is a multidisciplinary social science endeavour devoted to answering these and many other intriguing puzzles that our daily experience of public policy throws up. This course presents an introduction to policy analysis. It investigates the institutions and processes by which public policy is made, accounted for and evaluated. We examine how policy is made, who makes it and what influences it. We will present and utilise some of the main concepts and models that scholars employ to describe, explain and evaluate public policy-making. Every week, a different lens on public policy will be probed. Each lens will illuminate different corners of the public policy puzzle, and will reveal the roles which institutions, actors and circumstances play in shaping what government does and how it does it.

POGO8004 Poverty Reduction
While it is usually acknowledged that poverty has a long history, nevertheless the current concern is that it now takes new forms. The course examines what is meant by poverty, the various causal explanations that have been constructed for the persistence of poverty, and the means developed for poverty reduction. The course has been designed to suit students in Development Administration, Environmental Management, Public Policy and International Relations, as well as those taking graduate studies in a wide range of disciplinary programs.

ANTH8028 Introduction to Social Impact Studies
This course provides a detailed introduction to the principles and methodologies of social impact assessment. It examines the legislative and policy environment for social assessment, methodologies used by social assessment practitioners, detailed case studies of actual impact situations such as community relocation, compensation/royalty payments, natural disasters, and education programs. Extensive use is made of case study material from Australia and the Asia Pacific region and there are numerous opportunities for student involvement in practical exercises.

Plus other approved ANU courses such as
ANTH8007 Key Concepts in Anthropology of Development
BUSN7017 Sustainability and Corporate Social Responsibility, Accounting and Reporting
ENVS6021 Participatory Resource Management
INTR8045 Global Governance 1
ENVS6304 Land and Catchment Management
ENVS6555 Water Resource Management
ENVS6015 Introduction to Remote Sensing and GIS
Graduate Diploma Core Courses

EMDV 8026 Environmental Science for Managers
This course aims to give you a good general background in the biological and physical systems that create the natural environment of our planet. This basic scientific knowledge is essential for analysing any environmental problem. The course covers many areas of the discipline environmental science. It starts with an introduction to the uniqueness of planet earth and the basic features of the planet (atmosphere, oceans etc) and continues with an investigation of earth’s most special feature, life. We deal briefly with the essential chemistry of life (including respiration and photosynthesis) and the issue of energy; taxonomy; the structure of ecosystems; terrestrial and marine environments; soil; global processes; biogeochemical cycles; and the interactions between biota and the non-living environment. The course will also touch upon human impacts.

EMDV8001 Environmental Sustainability, Health and Development
The principal aim of the course is to provide students with an understanding of the interactions between population health and the status and management of the environment. This will be examined mainly in the context of developing countries, with a focus on the changes that economic development can bring both to the environment and to population health. The course will also touch on the environmental sustainability and health sustainability of human society. The syllabus will cover some of the basic concepts of population health and its assessment. It will examine how environmental degradation and poor environmental management affects population health. It will touch upon the main health issues in developing countries (specifically AIDS, nutritional deficiencies, malaria, TB, certain parasitic conditions and waterborne infections) and compare the situation to developed nations. The possible health effects of climate change will be briefly examined. It will introduce studies of pollution and toxicology, focussing mainly on air quality. Also covered is a brief introduction to human demography and its significance to population health and national development.

EMDV8007 Environmental Communications
Disputes about environmental policy in democratic societies such as Australia are substantially influenced by the nature and quality of the communications between the various participants. This course will consider the differing aims, target audiences, methods and styles of the main forms of communications that shape the development and fate of environmental policies in pluralist political societies. Students will be introduced to a number of case studies of major environmental policies that illustrate the attributes and roles played by a number of different forms of communications.

For comprehensive information about courses please visit http://studyat.cnu.edu/courses
EMDV8078 Introduction to Environmental and Resource Economics

This course is designed to provide you with an understanding of the ways in which the discipline of economics can be used to analyse environmental and natural resource use issues. It begins with an explanation of what economics is and a role for economics in the consideration of natural resource management is established. The potential for markets to deal with environmental problems is explored as is the role of governments. Cost/benefit analysis is introduced as a technique relevant to an analysis of alternative approaches to environmental decision making. With this background established, the rest of the course is divided into two parts. The first deals with the economics of natural resources including water, forests, fish, agricultural land, energy and biodiversity. The second includes the economic analysis of pollution issues ranging from local concerns such as solid waste management to global issues such as greenhouse gas emissions.

EMDV8101 State, Society and Natural Resources

This course provides students with an understanding of the critical social sciences practices used in analysing environmental problems and natural resource policy. These include anthropology and property theory; sociology of the state and the environment; socio-legal approaches to natural resources policy; political ecology; environmental discourses; participation and social capital; and the state and local environmental knowledge. The course introduces students to key theoretical readings together with case studies where these approaches are applied. Students learn to apply these frameworks to explain, to analyse and to evaluate environmental problems and public policy issues.
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