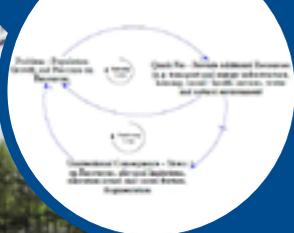


ECOSYSTEM SERVICES OF URBAN WATER

132.705 APPLIED ECOLOGICAL ECONOMICS



Massey's Applied Ecological Economics paper is a unique 'atelier' paper, giving you place-based learning-by-doing through engagement, use of tools and reflections.

Whether you work in public policy, local government or a corporate organisation, this course will give you a practical insight into this area of growing importance.

The course runs Summer Semester from 17 November 2014 to 14 February 2015 with the workshop component from **14th January to 23rd January 2015** based at Massey University's Albany Campus, Auckland.

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ECOLOGICAL ECONOMICS (EE)

Ecological Economics (EE) is an applied, trans-disciplinary field of inquiry in existence since the 1980's. Its foundation lies in assessment of:

- the ecological scale and carrying capacity of natural systems using natural sciences;
- social fairness and distribution, drawing on social sciences; and
- designing systems and institutions for efficient allocation (economics, political science, planning, and other disciplines).

EE investigates the complementary use of natural, built, social, and human capital as the building blocks and production factors required for sustainable societies at multiple scales.

132.705 APPLIED ECOLOGICAL ECONOMICS*

THE COURSE COVERS

1. What is ecological economics and how is it different from neoclassical economics.
2. Tools used in the ecological economics field; e.g. systems thinking, system dynamics, envisioning, scenario planning.
3. Natural capital, ecosystem services and valuation.
4. Scoping a problem and synthesis of solutions.

This paper is offered in the context of Massey University's research programme 'Sustainable Pathways 2' (www.sp2.org.nz). The teaching component covers:

1. A five-week, on-line introduction to ecological economics concepts and tools.
2. A 10-day workshop on 'ecosystem services of urban water' in the Auckland Region. This includes freshwater, waste water, stormwater and coastal/marine.

Presentations by lecturers, stakeholders and field trip activities provide the basis for students to select a topic of interest. Students and staff/stakeholders then collaboratively work hands-on toward a 'solution' applying the concepts, tools and information learned on the course.

3. A 3-week follow up on-line component to finalise the literature review and write a manuscript suitable for submission as a publishable journal article.

AN 'ATELIER' PAPER

Atelier papers have a high level of place-based learning. During this course there will be two days of field trips to help you gain understanding of the challenges involved with 'urban water' in the Auckland Region.

Associate Professor Marjan van den Belt (paper co-ordinator) has taught atelier papers since 1995.

For examples of atelier papers in Costa Rica (2009) and South Africa (1995) and manuscripts developed by 132.705 students see: <http://www.massey.ac.nz/massey/learning/departments/centres-research/eernz/132-705-applied-ecological-economics.cfm>

WHO CAN ENROL?

This paper is open to all post-graduate students; e.g. environmental planning and management, health, hazards, business, engineering, natural and social sciences. This trans-disciplinary paper fosters a rich and applied learning experience.

Note: A high level of English proficiency is essential.

**The paper offering will only go ahead if the required minimum number of students enrol*



STUDENT FEEDBACK

"I'd like to thank you for a fantastic and incredibly challenging course. My mind has really been widened over the past few months - I can no longer listen to a politician speak about the need for GDP growth without thinking, "propaganda! you've got it all wrong!"... nor can I look at resource use in isolation of the wider ecosystem. I also deeply appreciate that the course has offered solutions to an outdated system, and this brings me much hope and joy, as well as practical tools and arguments to take forward with me into the future.

And I thank you for teaching in a unique and open way. Without expressing an aggressive style of teaching, you have managed to push me far beyond my limits. A blessing & an inspiration - thank you."

Visit to Kohuturoa Marae by 132.705 students and staff

