

1. Philosophy and Design

Hamilton February 28th

Introduction to the ethics & principles of permaculture. Explore realistic priorities for reducing your ecological footprint and designing abundance into your life.

Design advice is provided to assist you to develop a concept plan for your site, or project that you chose to work at.

2. Climate and Water

Hamilton March 28th

Global and local weather patterns; climate change. Atmospheric conditions, types of climates and weather. Micro climates – shelter, shade, suntraps, harnessing the wind.

Urban weather patterns (acid rain, urban heat sink, wind patterns & tall buildings).

Air quality, pollution & re-vitalisation.

Introduction to the hydrological cycle.

Water conservation, devices and technology.

Water harvesting and storage (rain water, dams, and swales). Water quality and quantity, purifying and treatment techniques.

3. Human Sphere

Ngaruawahia April 18th

Cultural values, assumptions and perceptions.

Indigenous resource concepts, kaitiakitanga and Maori metaphysics.

Social permaculture.

Radical citizenship and social ecology, designing for personal and social transformation.

Cooperative decision making, legal structures and ownership. Conflict resolution.

4. Landscape and Site Assessment

Raglan May 16th

Observation and interactions with nature and the landscape. Nature's reoccurring patterns.

Techniques for observation; measuring and recording landforms; sectors and aspects.

Gathering information of natural conditions, cultural features and requirements.

Water sheds; water catchments and dams
Landscape management.

5. Built Environments Zone 0

Raglan June 13th

Principles of building biology and ecology; Orientation and layout for site and surroundings.

Building design - (warmth & ambience, insulation, passive & active systems, storage, heat pumps, sound, light & electromagnetism).

Building materials and construction (local earth, straw, timber, embodied energy & toxicity, finishing's).

Reuse & recycling - compost toilets, grey water systems, water harvesting & storage

6. Healthy soils and Fertile gardening

Zone 1 Hamilton July 11th

Nature of soils and soil structure; soil testing

Soil health and fertilisers. Composting & revitalisation aids

Zone 1, ecological functions & characteristics.

Garden layout & design- observing the energy flows. Garden preparation double dig or no-dig.

Mulching, companion & rotation planting.

Hand in design brief.

7. Small animals and orchard Zone 2

Raglan August 8th

Ecology of plants and animals.

Selecting trees/vines/berries/crops etc. for climate and site. Layout for needs in relation to facilities, guilds & diversity.

Planting and propagation; management for productivity and plant health. Integration with small animals (bees, poultry, pigs).

Management and care of small animals.

Water requirements, swales & irrigation.

8. Large Landscapes Zones 3-5

Waitetuna September 5th

Animals and soil care – shelter and shade, grazing, herbal ley & fodder crops.

Water Management

Forest effects and services.

Plantations – For food, alley cropping, non-food, timber, firewood etc.

Natural ecosystems – restoration, pest management.

9. Community Resilience

Hamilton October 3rd

Possible natural disasters for our bioregion, pest infestation, social-crime, war and revolution.

Recognising risks and hazards. Coping with dramatic and immediate change.

Job loss and financial collapse, alternative financial systems.

Food foraging and natural medicine sources.

Transition towns.

10. Energy and Technology

Ruapuke October 31st

Nature and types of energy.

Energy analysis, efficiency and life-cycle of energy.

Examples of appropriate technologies (high tech & low tech solutions).

Transport & energy alternatives.

Energy storage; site specific and community based systems.

The 4Rs – reduce, reuse, recycle & repair.

11. Urban Design & Living

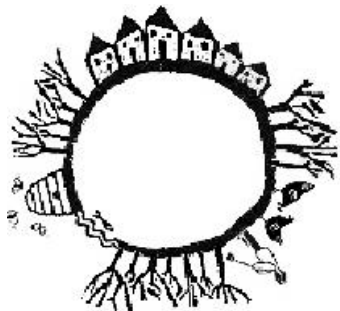
Hamilton November 15th

Healthy and sustainable living in cities. & towns.

Community culture; education and values.

Suburban retrofit to reduce your ecological footprint. Engaging in local communities and councils.

Layout and integration of urban systems; public spaces, transport & circulation, housing, energy supplies & distribution, urban waste cycles, urban food production, storm water, waste water & potable water management.



12. Design Project Presentations

Hamilton December 12th

The design project can be completed individually or in groups.

It should be completed in a minimum of 20 hours per person per project.

Tutors will be available for feedback throughout the process.

Projects can be on subject matter the student is interested in, so long it demonstrates the application of sustainable design principles introduced in the first module. This may take the form of a landscape design for an individual dwelling, a retrofit of a house, working with a community group, setting up a local alternative economic model, etc.

It is intended that projects be undertaken in parallel to the course so that designs are built on by progressive learning throughout the course.

Submit a project brief at module 6

At the end of the course, students will be required to do a 15 minute presentation of their project to the tutors and colleagues.

Presentations should demonstrate how the design was conceived (design process), the project (final design) and a brief outline on implementation and/or management.

Hamilton Permaculture

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Modular Permaculture Design Certificate

Run over 12 weekends throughout 2015.

Each one-day module will be from 9am to 5pm.

The modules will be held at a variety of sites throughout the Waikato, enabling the participants to view different levels and styles of permaculture in practice.

Note: Participants who want to complete the certificate must do the first and last modules.

To complete the certificate one can attend modules that can be cross credited in other regions, with an approved provider. The certificate can be completed over 2 years. It is also possible to partake in chosen modules as a part time participant without receiving the certificate.

Course fee: A one-off payment to cover the complete course \$1400 GST inc OR 4 instalments - \$500 in February, and \$300 in May, July & September

Casuals are welcome to attend modules of their choice at \$135 per module.



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