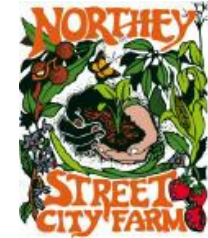


# Northey Street City Farm

## Permaculture Design Course (72 hours)

### Content and Learning Outcomes



Day	Topic	Content	Learning Outcomes
1	<b>Introduction to Permaculture</b>	<p>Course outline                      What is permaculture?                      History &amp; global context                      Ethics &amp; design principles                      Ecology of permaculture</p>	<ul style="list-style-type: none"> <li>• Get to know each other and the course program.</li> <li>• Understand the principles of ecology whilst getting to know our site</li> <li>• Learn the ethics that form the foundation of Permaculture</li> <li>• Explore the design principles and examples of how they can be applied within design, ecology and lives</li> <li>• Be introduced to the course design project.</li> </ul>
2	<b>Climate, Sectors, Zones &amp; Patterns</b>	<p>Climate systems                      Sectors &amp; micro-climates                      Patterns of intent and zoning                      Functioning connections                      Patterns in nature</p>	<ul style="list-style-type: none"> <li>• Understand the earth's climatic systems and the effect of local and microclimate modifiers, both natural and manmade.</li> <li>• Ability to place something in the landscape based on its needs and the management.</li> <li>• Learn to value the connections between elements for a stable, resilient</li> </ul>
3	<b>Design Process</b>	<p>The design process                      People analysis &amp; goal articulation                      Site assessment &amp; 'Scale of Permanence'                      Base mapping &amp; scale                      Individual design project</p>	<ul style="list-style-type: none"> <li>• Learn to use an ecological design process.</li> <li>• Assess people's context and goals.</li> <li>• Construct a base map to scale.</li> <li>• Assess the site using the 'Scale of Permanence' and how to apply it to design.</li> <li>• Learn to map using trilateration and extension with offsets.</li> <li>• Learn to read the landscape and apply patterns in design.</li> </ul>
4	<b>Soils in Permaculture</b>	<p>Basics of soil, role in our environment, components &amp; biota                      Plant nutrients, soil food web, soil sampling and PH.                      Dealing with soil problems                      Compost – methods &amp; compost teas</p>	<ul style="list-style-type: none"> <li>• Understand soils as a complex physical, chemical &amp; biological system.</li> <li>• Learn the implications of PH, soil samples and testing soil properties.</li> <li>• Develop strategies &amp; methodologies to maintain and restore healthy soil.</li> <li>• Get hands-on experience in composting and a range of soil treatments.</li> </ul>
5	<b>Water in Permaculture</b>	<p>Global distribution of water                      Water issues and functions in design                      Strategies to catch, slow, spread, sink, &amp; store it                      Swales, terraces, contour systems &amp; keyline                      Water efficient irrigation</p>	<ul style="list-style-type: none"> <li>• Appreciate the properties of water that make it essential for life.</li> <li>• Select suitable strategies to reduce runoff &amp; improve infiltration.</li> <li>• Calculate water catchments and identify opportunities for conservation and recycling.</li> <li>• Understand water use in plants and foods, Efficient use of water in the</li> </ul>

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6	<b>Cultivated Ecology</b>	Principles of edible landscape design Functions and production Vegetable garden design & zonation Companion planting, crop rotation and mulches Maximizing space and edge Intercropping strategies	<ul style="list-style-type: none"> <li>• Learn to look through the lens of the four-element design analysis.</li> <li>• Design intensive vegetable gardens using principles and strategies.</li> <li>• Appreciate the importance of crop rotation and diversity in a vegetable garden.</li> <li>• Understand the different advantages of both annual and perennial production.</li> </ul>
7	<b>Animals in Permaculture</b>	Integrated animal systems & strategies Permaculture approach to ecosystem services Creating permaculture animal systems Bees, poultry and grazing animals Managing wildlife	<ul style="list-style-type: none"> <li>• Consider the ethical implications of animals in a permaculture system.</li> <li>• Appreciate the importance of bees and design bee friendly environments.</li> <li>• Learn the role of animals in human welfare and ecosystem services.</li> <li>• Know how to design permaculture animal systems.</li> <li>• Designing for wildlife.</li> </ul>
8	<b>Trees in Permaculture</b>	Trees and their energy transactions Site factors and considerations Design strategies, stacking and succession Polycultures and guilds Creating wildlife habitat	<ul style="list-style-type: none"> <li>• Learn how to use ecological principles to design productive agroforestry systems, including food forests and orchards.</li> <li>• Design for succession, food production, shade, microclimates, windbreaks, fodder, erosion control &amp; habitat.</li> <li>• Understand integrated management practices and the design of polycultures.</li> </ul>
9	<b>Group Design Day</b>	Applying the design process from goal articulation to schematic design for a school, community garden or organization	Get a deeper appreciation of the Permaculture design process as applied to a 'real life' site and client and within a limited time frame.
10	<b>Social Permaculture &amp; Building Community</b>	What is social permaculture & socio-metrics? Applying ethics and design principles to community life Re-localisation & transition People care Building & maintaining effective groups	<ul style="list-style-type: none"> <li>• Understand the scope of social permaculture.</li> <li>• Explore how permaculture principles, ethics and ideas can relate to social systems.</li> <li>• Understand localisation and bioregionalism and why they are important.</li> <li>• Be inspired by global and local communities and projects</li> <li>• Reflect on caring for self and the process of improvement.</li> <li>• Have some tools and references for working effectively in groups and understand considerations needed for working in groups.</li> </ul>

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11	<b>Sustainable housing</b>  <b>Appropriate technology</b>	Green architecture Operable buildings Low impact tech Technology appropriate to lifestyle Energy descent and the 'carbon pulse'	<ul style="list-style-type: none"> <li>• Explore passive heating and cooling of new and existing homes, and appropriate materials in construction.</li> <li>• Learn about integration of house and garden.</li> <li>• Understand the concept of appropriate technologies as applied to permaculture, including low tech solutions.</li> <li>• Gain an overview of electrical energy systems, cooking tech, transport, information technologies and waste management.</li> <li>• Explore the energy descent concept and how we adapt to using less fossil-fuel energy.</li> </ul>
12	<b>Design Presentations</b> <b>Revision &amp; evaluation</b> <b>Where to from here?</b>	Presentations of participants' designs Reflection and goals Exploring worldviews Permaculture buy-in Where to from here?	<ul style="list-style-type: none"> <li>• Present individual designs, including Ethics and Design Principles integration.</li> <li>• Pause and reflect on what we have achieved and what we have learned.</li> <li>• Revisit the ethics and design principles with new eyes and explore worldviews.</li> </ul>

Notes: Sequence of sessions may change. Table does not include breaks.



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Permaculture in the Heart of Brisbane, Australia