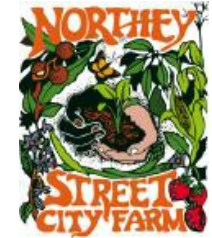


# Northey Street City Farm

## Permaculture Design Course

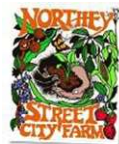
### Content and Learning Outcomes



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. Participants get to articulate their own goals for the course.</li> <li>• Understand the major environmental challenges</li> <li>• Appreciate your own context so that you can learn from and work with nature for a resilient, regenerative and abundant future.</li> <li>• Learn the ethics that form the foundation of Permaculture and the design principles and explore examples of how they can be applied within design, ecology and lives.</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 system.</li> <li>• Explore nature's patterns &amp; the application of patterns in design.</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 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> <li>• Know the five ingredients of building soil.</li> </ul>

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5	<b>Water in Permaculture</b>	Global distribution of water Water issues and functions in design Strategies to catch, slow, spread, sink, & store it Swales, terraces, contour systems & keyline Water efficient irrigation	<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 garden.</li> <li>• Explore irrigation systems, grey water and water recycling, design for water re-use.</li> </ul>
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 for 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>Day off for Design</b>	Day off to work on base map and overlays	
10	<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.
11	<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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12	<p><b>Work on Design</b></p> <p><b>Building a resilient garden ecology</b></p>	<p>Working on your designs</p> <p>Role of pests and disease in ecology Strategies based on management and design, cultivation, habitat and biological controls</p>	<ul style="list-style-type: none"> <li>• Time spent with peers and educators exploring possibilities with your individual design.</li> <li>• Gain the ability to design an integrated system to reduce weed issues, attract natural pest predators and develop a strategic approach to pest and disease control.</li> </ul>
13	<p><b>Design your Life</b></p>	<p>Holistic context, goals and lifestyle Inner-landscape</p>	<ul style="list-style-type: none"> <li>• Gain an introduction to 'Holistic Context' and how to use it as a personal decision-making process.</li> <li>• Explore the 'three mistakes' and how we can avoid them</li> <li>• Build a daily statement of purpose, starting where you are and looking to the quality of life you want.</li> </ul>
14	<p><b>Sustainable housing</b></p> <p><b>Appropriate technology</b></p>	<p>Green architecture Operable buildings Low impact tech Technology appropriate to lifestyle Peak oil and the 'carbon pulse'</p>	<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 peak oil concept and the role of abundant, mobile and inexpensive carbon-based energy in complex societies.</li> </ul>
15	<p><b>Day off for Design</b></p>	<p>Day off to finish and finalize designs</p>	
16	<p><b>Design Presentations</b></p> <p><b>Revision &amp; evaluation</b></p> <p><b>Where to from here?</b></p>	<p>Presentations of participants' designs Reflection and goals Exploring worldviews Permaculture buy-in Where to from here?</p>	<ul style="list-style-type: none"> <li>• Present individual designs, including Ethics and Design Principles integration.</li> <li>• Pause and reflect on what they have achieved and what they have learned.</li> <li>• Revisit the ethics and design principles with new eyes and explore worldviews.</li> <li>• Look at lifestyle examples and explore where to from here.</li> </ul>



northey street city farm  
Permaculture in the Heart of Brisbane, Australia