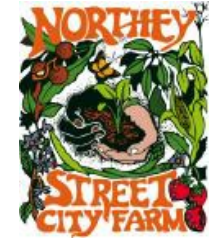


Northey Street City Farm

Permaculture Design Course

Content and Learning Outcomes

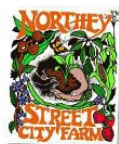


Day	Topic	Content	Learning Outcomes
1	Introduction to Permaculture	<p>Course outline What is permaculture? History & global context Ethics & design principles Ecology of permaculture</p>	<ul style="list-style-type: none"> • Get to know each other and the course program. Participants get to articulate their own goals for the course. • Understand the major environmental challenges • Appreciate your own context so that you can learn from and work with nature for a resilient, regenerative and abundant future. • 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.
2	Climate, Sectors, Zones & Patterns	<p>Climate systems Sectors & micro-climates Patterns of intent and zoning Functioning connections Patterns in nature</p>	<ul style="list-style-type: none"> • Understand the earth's climatic systems and the effect of local and microclimate modifiers, both natural and manmade. • Ability to place something in the landscape based on its needs and the management. • Learn to value the connections between elements for a stable, resilient system. • Explore nature's patterns & the application of patterns in design.
3	Design Process	<p>The design process People analysis & goal articulation Site assessment & 'Scale of Permanence' Base mapping & scale Individual design project</p>	<ul style="list-style-type: none"> • Learn to use an ecological design process. • Assess people's context and goals. • Construct a base map to scale. • Assess the site using the 'Scale of Permanence' and how to apply it to design. • Learn to map using trilateration and extension with offsets. • Learn to read the landscape and apply patterns in design.
4	Soils in Permaculture	<p>Basics of soil, role in our environment, components & biota Plant nutrients, soil food web, soil sampling and PH. Dealing with soil problems Compost – methods & compost teas</p>	<ul style="list-style-type: none"> • Understand soils as a complex physical, chemical & biological system. • Learn the implications of PH, soil samples and testing soil properties. • Develop strategies & methodologies to maintain and restore healthy soil. • Get hands-on experience in composting and a range of soil treatments. • Know the five ingredients of building soil.

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5	Water in Permaculture	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"> • Appreciate the properties of water that make it essential for life. • Select suitable strategies to reduce runoff & improve infiltration. • Calculate water catchments and identify opportunities for conservation and recycling. • Understand water use in plants and foods, Efficient use of water in the garden. • Explore irrigation systems, grey water and water recycling, design for water re-use.
6	Cultivated Ecology	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"> • Learn to look through the lens of the four-element design analysis. • Design intensive vegetable gardens using principles and strategies. • Appreciate the importance of crop rotation and diversity in a vegetable garden. • Understand the different advantages of both annual and perennial production.
7	Animals in Permaculture	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"> • Consider the ethical implications of animals in a permaculture system. • Appreciate the importance of bees and design bee friendly environments. • Learn the role of animals in human welfare and ecosystem services. • Know how to design permaculture animal systems. • Designing for wildlife.
8	Trees in Permaculture	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"> • Learn how to use ecological principles to design productive agroforestry systems, including food forests and orchards. • Design for succession, food production, shade, microclimates, windbreaks, fodder, erosion control & habitat. • Understand integrated management practices and the design of polycultures.
9	Group Design Day	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	Social Permaculture & Building Community	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"> • Understand the scope of social permaculture. • Explore how permaculture principles, ethics and ideas can relate to social systems. • Understand localisation and bioregionalism and why they are important. • Be inspired by global and local communities and projects • Reflect on caring for self and the process of improvement. • Have some tools and references for working effectively in groups and understand considerations needed for working in groups.

Day	Topic	Content	Learning Outcomes
11	Work on Design Building a resilient garden ecology	Working on your designs Role of pests and disease in ecology Strategies based on management and design, cultivation, habitat and biological controls	<ul style="list-style-type: none"> • Time spent with peers and educators exploring possibilities with your individual design. • 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.
12	Design your Life	Holistic context, goals and lifestyle Inner-landscape	<ul style="list-style-type: none"> • Gain an introduction to 'Holistic Context' and how to use it as a personal decision-making process. • Explore the 'three mistakes' and how we can avoid them • Build a daily statement of purpose, starting where you are and looking to the quality of life you want.
13	Sustainable housing Appropriate technology	Green architecture Operable buildings Low impact tech Technology appropriate to lifestyle Peak oil and the 'carbon pulse'	<ul style="list-style-type: none"> • Explore passive heating and cooling of new and existing homes, and appropriate materials in construction. • Learn about integration of house and garden. • Understand the concept of appropriate technologies as applied to permaculture, including low tech solutions. • Gain an overview of electrical energy systems, cooking tech, transport, information technologies and waste management. • Explore the peak oil concept and the role of abundant, mobile and inexpensive carbon-based energy in complex societies.
14	Design Presentations Revision & evaluation Where to from here?	Presentations of participants' designs Reflection and goals Exploring worldviews Permaculture buy-in Where to from here?	<ul style="list-style-type: none"> • Present individual designs, including Ethics and Design Principles integration. • Pause and reflect on what they have achieved and what they have learned. • Revisit the ethics and design principles with new eyes and explore worldviews. • Look at lifestyle examples and explore where to from here.

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



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