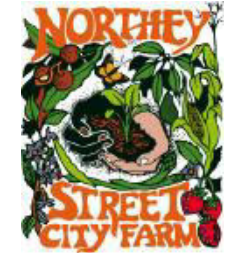


Northey Street City Farm

Permaculture Design Course (72 hours)

Content and Learning Outcomes

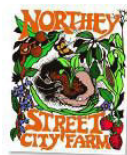


Day	Topic	Content	Learning Outcomes
1	Introduction to Permaculture	<p>Course outline What is permaculture? History & global context Ethics & design principles Ecology of permaculture</p>	<ul style="list-style-type: none"> • Get to know each other. • Understand the principles of ecology whilst getting to know our site • Learn the ethics that form the foundation of Permaculture • Explore the design principles and examples of how they can be applied within design, ecology and lives • Be introduced to the course design project.
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.
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.

Day	Topic	Content	Learning Outcomes
5	Water in Permaculture	<p>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</p>	<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.
6	Cultivated Ecology	<p>Principles of edible landscape design Functions and production Vegetable garden design & zonation Companion planting, crop rotation and mulches Maximizing space and edge Intercropping strategies</p>	<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	<p>Integrated animal systems & strategies Permaculture approach to ecosystem services Creating permaculture animal systems Bees, poultry and grazing animals Managing wildlife</p>	<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	<p>Trees and their energy transactions Site factors and considerations Design strategies, stacking and succession Polycultures and guilds Creating wildlife habitat</p>	<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	<p>Applying the design process from goal articulation to schematic design for a school, community garden or organization</p>	<p>Get a deeper appreciation of the Permaculture design process as applied to a 'real life' site and client and within a limited time frame.</p>
10	Social Permaculture & Building Community	<p>What is social permaculture & socio-metrics? Applying ethics and design principles to community life Re-localisation & transition People care Building & maintaining effective groups</p>	<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	<p>Sustainable housing</p> <p>Appropriate technology</p>	<p>Green architecture</p> <p>Operable buildings</p> <p>Low impact tech</p> <p>Technology appropriate to lifestyle</p> <p>Energy descent and the 'carbon pulse'</p>	<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 energy descent concept and how we adapt to using less fossil-fuel energy.
12	<p>Design Presentations</p> <p>Revision & evaluation</p> <p>Where to from here?</p>	<p>Presentations of participants' designs</p> <p>Reflection and goals</p> <p>Permaculture buy-in</p> <p>Where to from here?</p>	<ul style="list-style-type: none"> • Present individual designs, including Ethics and Design Principles integration. • Pause and reflect on what we have achieved and what we have learned. • Revisit the ethics and design principles with new eyes • 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