



## Permaculture Design Certification Course

### COURSE OVERVIEW

Taught primarily by Warren Brush, the co-founder of Quail Springs Learning Oasis and Permaculture Farm, Casitas Valley Farm and Creamery, Sustainable Vocations and the founder of True Nature Design, a Permaculture consultation firm that works extensively in North America, Africa and other countries worldwide. To find out more about his work please visit his websites at:

[www.quailsprings.org](http://www.quailsprings.org)

[www.sustainablevocations.org](http://www.sustainablevocations.org)

[www.permaculturedesign.us](http://www.permaculturedesign.us)

[www.casitasvalley.com](http://www.casitasvalley.com)

<http://www.pri-kenya.org>

***Permaculture is a conscious integrated design system based on ecological principles that create resource efficient and productive human environments. Permaculture provides a framework for consciously designed landscapes that mimic the patterns and relationships found in nature. These systems yield an abundance of shelter, water, energy, and food for the provision of local needs that provide diversity, stability, and resilience for local populations.***

This Permaculture Design Certification Course is designed to give the participant a thorough understanding of the principles and applications of permaculture in their lives and communities. Permaculture provides a tangible foothold in developing your next best steps toward living a sustainable lifestyle. This course provides an internationally recognized certification through the Permaculture Research Institute of Australia.

Participants are introduced to some of the concepts of creative problem solving as a learning process, different approaches to problem solving and individual learning styles and how to use these tools effectively in teamwork.

*Topics include:*

- Eco-literacy for Sustainability
- Patterns & Processes in Nature
- Sustainable Design and Production Ecology
- Invisible Structures
- Permaculture at Work

## 1. Introduction

The course commences with an introduction to systems thinking, patterns in nature, and cultural regeneration to provide a context for introducing Permaculture, its influences, history, principles and ethics, issues of energy, sustainability and community resiliency.

Participants are introduced to some of the concepts of creative problem solving as a learning process, different approaches to problem solving and individual learning styles and how to use these tools effectively in teamwork.

## 2. Eco-literacy for Sustainability - Patterns & Processes in Nature

This section of the course introduces the basic underlying earth sciences and ecological process required for sustainable design and earth stewardship. Building on the introduction to patterns in nature, this section comprises detailed sessions on the patterning of ecological processes & their role and function in the design of sustainable systems;

- Landform & landscape reading, interpreting contour maps, key points, topographic features and their influence on soil, vegetation, water & microclimate
- Water in landscape: water management, collection & storage strategies, erosion control, dam construction & earthworks
- Soil: understanding & maintaining a healthy, living soil system and processes, mulches, soil testing and correcting common soil problems, minimum tillage and composting processes
- Forest ecology and forests role in the environment and bio-spheric processes: wind energy, water cycle, nutrient cycle, succession etc.
- Global climate systems, Biomes and climatic factors & influences, climate change & instability
- Microclimates: influencing factors and strategies to create specific microclimates
- Major climatic zones and their landform profiles. The major features and resulting management strategies for humid and arid, tropical and temperate areas – emphasis on examples of traditional sustainable systems

## 3. Sustainable Design and Production Ecology - Patterns in Design

This section begins with the design process and various concepts of patterning in design (zones, sectors, keyholes, spirals, flow etc), permaculture design methodologies and site analysis. This provides the framework for a more detailed exploration of the following design systems in permaculture:

### ZONE I

- appropriate technologies, energy & resource efficient house design, selecting a house site etc
- home garden design: edible landscapes for urban & rural situations, small scale intensive vegetable production and functional design for home gardens

### ZONE II

- Small Livestock & Poultry systems: small & large scale free-range chicken forage systems, chook tractors, chicken house design, chicken/ glass house. Also ducks, geese, quail, rabbits, guinea pigs.

- Orchard and food forest systems for temperate, subtropic and tropical environments, low maintenance strategies, diverse multi-story plant selection, site selection & preparation, implementation, planning for year-round production. Appropriate use of animals in integrated fruit production systems.

- Honey bees: husbandry needs and forage systems

#### ZONE III

- Windbreaks: location, design, function, yield, species selection, implementation
- Main crops: growing staple foods and major income generating crops
- Animal systems for Zones III and IV: characteristics, husbandry needs, forage systems, yields & functions of cattle, sheep, goats, horses, pigs & other common domestic farm animals.

#### ZONE IV

- Tree crops: design and management systems for low maintenance structural forests for fuel, timber & other yields, agroforestry, coppice woods and Integrated sustainable broadacre farming strategies

#### ZONE V

- Conservation forests for watershed management, native flora & fauna, spp refugia, reforestation, wildlife management, wildlife corridors, bushfoods and restoration ecology

#### THEMES

This section concludes with design strategies for various themes

- Utilities: roads, access ways and fences
- Aquaculture: low maintenance freshwater aquaculture systems for ponds & farm dams, edible water plants, biological water purification and treatment systems
- Integrated pest management and weed control in Permaculture systems

### **4. Invisible Structures**

Bioregionalism and Transition planning sets the tone for this section followed by community economics and ethical investment, legal structures, land access, land ownership, community development, and bioregional organization strategies.

### **5. Conclusion - Permaculture at Work.**

This introduces local, national and global permaculture networks and organizations, work opportunities and fields of operation, pathways to achieve skills and knowledge for different kinds of permaculture applications, further training options

## Permaculture Design Course Sample Schedule

DAY	Session I • 8:00-10:00	Session II • 10:30-12.00	Session III • 2:00-3.30	Session IV • 4:00-5.30	Evening Sessions 1-hour or more
Monday	Welcome and Opening Circle	Introduction to Permaculture	Intro to Permaculture Continued	Wheel of Life - Patterns in Nature and Humanity	
Tuesday	Ecological Process in Permaculture	Design Process and Methodologies	Design Process and Methodologies Con't	Element Analysis exercise	
Wednesday	Understanding Patterns	Pattern Design Exercise	Design Exercise	Forests & bio-physical functions	
Thursday	Water in Landscape	Earthworks	Swale Building		Soil Movie
Friday	Living Soil	Living Soil	Thermophillic Compost Making Practicum	Climate, Biomes and Microclimates	
Saturday	Humid Landscapes: Tropical & Minor	Arid Zones & Drylands	Humid Landscapes: Temperate	Garden Practicum	
Sunday	Day Off				
Monday	Urban Permaculture and Kitchen Gardens	Urban Permaculture and Kitchen Gardens Continued	Kitchen Garden Design Practicum	Design Project-Brief and Site Visit	
Tuesday	Appropriate Technology	Food Forests Systems	Food Forest Practicum	Design, Drafting and Presentation	
Wednesday	Freshwater Aquaculture	The Built Environment	Natural Building Practicum/Visit	Design Project	
Thursday	Broad Acre Permaculture Strategies	Greywater Presentation	Design Project	Design Project	Design Project
Friday	New Economy	Bioregional Strategies	Design Project presentations	Design Project presentations	End of course dinner/ talent show
Saturday	Where to go from here, The permaculture movement	Cert. presentations, where to from here, Feedback & wrap	Clean up, pack up & departure		

Evening Sessions/presentations – 1 hr duration 7.30-8.30 or 9pm with occasional longer sessions

### Fee Structure:

These fees go to support my family, my work in Africa and other non-profit and volunteer work.

Warren's course fees for this certification program are a base fee of \$9500 plus \$300 per student over 25 students, in addition to travel costs. A \$1500 non-refundable deposit is required to hold the dates and book Warren for the course.

Most conveners will charge between \$1200 to \$2000 a student as a sliding scale with a minimum of 20 students which would usually cover food and camping for the students as well. With off site housing and food, the price may be less.

For more information contact Warren's assistant: Ana Smith at [ana@regenerativeearth.com](mailto:ana@regenerativeearth.com)

**Promotion:**

Please feel free to use any of the verbiage above in your advertisements. A bio and photo for Warren will be sent to you via email to include in your promotional material as well. If you would like photos from Warren's work around the world to include in your flyer or other materials, please let Ana know and she can send over a file. Please send Ana the final version before you begin promoting so that she can make sure that the information pertaining to Warren is correct.

If you have any questions, please contact Ana at: [ana@regenerativeearth.com](mailto:ana@regenerativeearth.com)