

# Permaculture Design Certificate Course

Bear Roots Farm / Bright Blue EcoMedia

August 9-21, 2015

Syllabus

## Day 1: Monday, August 10th

- Orientation – Universal scale (Formation of the Universe, Earth Cycles and Systems)
- Principles of Natural Systems
- Earth Resources / Ecosystem Services
- What Is Permaculture & how does it work?
- Permaculture Ethics and Principles of Design

## Day 2: Tuesday, August 11<sup>th</sup>

- History Of Civilization
- History of Agriculture
- Regenerative Civilizations
- Pattern Understanding
- Methods of Design
- Systems Design: Elements, Zones & Sectors
- **Guest Speaker: Amy Seidl - Climate Factors and Adaptation**

## Day 3: Wednesday, August 12<sup>th</sup>

- Soil
- Water
- Forest and Trees & Their Energy Transactions
- Natural Succession
- Wilderness & Wildlife Corridors
- Reading The Landscape exercises
- **Guest Speaker: Annie McCleary - Wild Plant ID Walk (harvest, edible & medicinal)**

## Day 4: Thursday, August 13<sup>th</sup>

- Group Site analysis
- Microclimates
- Ecological "Waste" Water Systems
- **FIELD TRIP - Homestead & Skills - Ben Falk**

## Day 5: Friday, August 14<sup>th</sup>

- **Guest Speaker: Bruce Hennessey (Multi-species intentional rotational grazing)**
- Group Design presentations
- Domestic Animals
- Rotational grazing

**Day 6: Saturday, August 15<sup>th</sup>** (Field trip Day)

- Orchards, Forest Gardening, Urban and Suburban Permaculture (Aaron Guman)
- Regional Biology
- Biodynamic & Organic Gardens
- Earthworks
- Weed Ecology & Restoration Ecology
- Wildlife Management and Biological Pest Management
- Humid Tropics / Dryland Strategies / Humid Cool to Cold Climates
- **Guest Speaker: Mark Krawczyk (Agroforestry, Keyline Design & Earthworks)**

**Day 7: Sunday, August 16<sup>th</sup>** -- Day off

**Day 8: Monday, August 17<sup>th</sup>**

- **Guest Speaker: Buzz Ferver (Master Planning)**
  - Biology, Greenhouse & Aquaculture
  - Infrastructure & Natural Building & Energy Systems
  - Wetlands, Rain Water Systems/Community Gardening
  - Designing Public Spaces
- Appropriate Energy
- Ecological "Waste" Water Systems & Recycling
- **FIELD TRIP - Grazing Operation – Graham Unangst-Rufenacht and East Tree Hill Farm – Nicko Rubin**

**Day 9: Tuesday, August 18<sup>th</sup>**

- Regional System Design (Food, Land-use & Economy):
- Bioregional Economic Models
- Local Wealth / Regional Currencies
- Ecosystem Services
- Public land policy, Investment models
- Local Wealth/Coop's

**Day 10: Wednesday, August 19<sup>th</sup>**

- Economics and Budgeting of Consulting / Client Relationship
- Mapping & Presentation
- Cultural Narrative & Communication Systems Design (Vic Guadagno)
- Design time in class

**Day 11: Thursday, August 20<sup>th</sup>**

- Design Presentations!

**Day 12: Friday, August 21<sup>st</sup>** - Depart

\*\* Some of our evening Meals will commence with a discussion relating specifically to food, presented by Joseph Bossen of Vermont Bean Crafters. Presentations will include Staple Crops, Protein in our culture, Terroir) \*\*