

Ecosystem Restoration Course Curriculum June 2 version.

Instructors: Michael Pilarski, Marisha Auerbach, and special guests

**** This schedule is a subject to change.

Day Rate: \$150/day, includes all meals and camping

Daily Schedule

8:30 - 9:00: Morning Circle

9:00 - 10:30: Session 1

10:30 - 10:45: Break

10:45 - 12:15: Session 2

12:15 - 2:00: Lunch

2:00 - 3:30: Session 3

3:30 - 3:45: Break

3:45 - 5:15: Session 4

5:15 - 6:00: Break

6:00 - 7:30: Dinner

7:30 - 9:00: Evening Program (optional)

Tuesday, June 7 - Introduction & Overview

AM -

Opening Circle

Indigenous worldview

Connection to lands, spirits and ancestors

Course overview

Participants introductions

PM

Site Tour

Observation, Reading the landscape

Sit spot practice

Observing health and decline in ecosystems

Evening Program: Ecosystem restoration camps

Wednesday, June 8 - Climate Zones of the World & Ecology

AM

Permaculture ethics and principles

Rights of Nature

Social aspect of restoration including Land, Economic, and Governance Reform

Taking stock of the global earth repair movement -

Differences between ecosystem restoration and earth repair/permaculture.

Principles of Ecology

Ethnoecology & Ethnobotany

World overview. Holdridge Life Zones graphic. Analog climates

Oceans

Coral reefs

Mangroves

Ecosystem Functions & Services

PM

Succession Hands-on

Sheet mulching

Invasive plants, & their roles in succession

Native & cultivars discussion

Evening Program (optional): : Galen - ocean restoration

Thursday, June 9 - Water

AM

Whole watershed assessment

Keyline system of Soil and Water Management

Stream and river restoration

Erosion Control

PM

Guest Instructor: Margo Williams: Cool burns, Indigenous burning

PM

Erosion Control

Storing water in the landscape - hands-on session

Contour Lines & tools to determine contours

Swales & Terraces

Evening Program (optional): Social, cultural and economic considerations to restoration. Discussion.

Friday, June 10 - Soils

AM

Understanding Soil

Soil Food Web

Strategies for building soil

Considerations with outside inputs

Remineralization

Biochar

PM

Making biochar

Compost & Compost Tea

Vermiculture

LOCAL FIELD TRIP – visit to White Salmon River Restoration Site

Evening Program (optional): : Indigenous discussion. De-colonization

Saturday, June 11 - Forestry

AM

Tropical Forests

Temperate Forests

Restoration forestry.

Boreal Forest restoration

Tundra restoration.

Nutrient flows.

PM

Carbon Sequestration

Agroforestry

Analog Forestry

Windbreaks, hedgerows, Shelterbelts

System establishment

Tree planting

LOCAL FIELD TRIP

Evening Program (optional): Party

Sunday, June 12 - Day off

Monday, June 13 - Drylands

AM

Mediterranean ecosystem Restoration

Mosaic of forest, chaparral and grassland.

Wildfire

Deserts

Salted soils, Halophytes

Water harvesting structures

Roof and water catchment

Rain gardens

Establishing plants through the zones

Biodiversity & Species Selection

PM

Propagation Hands-on

Evening Program (optional): Participants presentations, Other countries.

Tuesday, June 14 - Regenerative Agriculture

AM

Restoration applied to the world's farmland.

Regenerative agriculture

No-till farming

Agroecology

Carbon Farming

Humanure

Seasonal Cycles of Activities and Maintenance

PM

Hands-on in the garden

Hugelkulturs

Evening Program (optional): Participants presentations,

Wednesday, June 15 - The Role of Animals in the Landscape

AM

The Role of Animals in world biodiversity

Ecosystem Functions of Animals

ReWilding, Passive restoration

Understanding Grazing Animals

Domestic animals and their pros and cons in restoration

Holistic Management

Grazing Practices as applied to Ecorestoration

PM

Field Trip to syncline, scree slopes and Meadow-steppe

Cryptobiotic crust restoration

Evening Program (optional): Working with nature spirits. Michael Pilarski presentation and discussion.

Thursday, June 16 - Mitigating Disaster

AM

Design for Catastrophe.

Design for flood, hurricane

Design for fire

Funding Restoration

PM

Hands-on Fire Prevention

Evening Program (optional): Talent Show. Celebrate.