

Green Apprenticeship Course Syllabus

This is meant as a guide only -- please note that changes may be made due to seasonal and time constraints

Sustainable Agriculture	No. of hours
Introduction to sustainable agriculture	3
Building soil fertility through composting	2
Sheet-mulch/ raised bed gardens	2
Container gardens and square foot gardening	2
Soil and bed preparation	4
Nursery planting and direct seeding	4
Fertilizing and pest management (companion planting, crop rotation, natural pest-control)	4
Vermicompost: composting with worms	2
Transplanting	4
Is self-sufficiency possible?	2
Perennial agriculture - feeding the world	2
Seed saving & vegetative propagation - cuttings	2
Bees and bee-keeping	4
Trees and tree care	2
Sustainable agriculture summation	2
Total hours sustainable agriculture:	41

Natural Building	
Basic earth mix for natural building projects	2
Principles and techniques of earth building	2
Traditional earth ovens	2
Alternative building project using natural and recycled materials	9
Final coat and sculptural finish for earthbuilding projects	2
Testing soil for building purposes	2
Straw bale building theory and practical	4
Protecting earthbuilding projects from the elements: the oiling process	2
Total hours natural building:	25

Renewable Energy & Alternative Technologies	
Biogas systems	2
Energy efficient wood burning stoves: rocket ovens	2
Cooking with the sun: solar ovens	2
No-water sanitation systems: composting toilets	2
Grey water systems	2
Sewage, blackwater & constructed wetlands systems	2
Wastewater system case study	2
Rainwater harvesting from roofs	2
Geodesic domes	3
Collecting water from the landscape, marking out contours & swales	3
Solar energy	2
Total hours renewable energy & alternative technologies:	24

Ecological Design	
Eco Design 1: Why buildings don't fall down	3
Eco design 2: Passive solar design	3
Eco design 3: Energy transfer	3
Integrated sustainable design: the evolution of the EcoCampus	2
Total hours ecological design:	11

Building Regenerative Community	
Roots of the crisis and the holistic worldview	2
Creating a safe space: group dynamics	3
The ecology of community	2
Reconnecting to nature and a sense of place: hike & nature walk to Wadi Lotan	3
Shabbat, ecology, and the art of taking a break	1.5
The Power of Community - how Cuba survived peak oil (film)	1.5
Lotan as intentional community: history, vision and values	2
Localization, bioregions & the economics of happiness	2
Potluck evening meals in the EcoCampus (twice a week)	16
Developing local culture: student personal presentations	8
Connecting with the Lotan community: Friday night Shabbat services and communal meal (optional)	8
Total hours building regenerative community:	49

Permaculture Design	
Permaculture 1: The 3 ethics of permaculture	3
Permaculture 2: The 10 principles	3
Permaculture 3: Design techniques - zones & sectors	3
Permaculture 4: Design techniques - input/ output analysis, random assembly	3
Permaculture 5: Design techniques - P.O.B.R.E.D.I.M. & project design brief	3
Working on permaculture designs	14
Permaculture project presentations	4
Summing up the process: a personal journey	3
Closing circle with staff & certificates	3
Total hours permaculture design:	39

Total number of course hours:	189
--------------------------------------	------------