



Center for Creative Ecology

www.KibbutzLotan.com/cfce

Green Apprenticeship Syllabus and Contact Hours

I. Permaculture Design	Contact hours
Permaculture 1: Introduction to permaculture, the 3 ethics	3
Permaculture 2: The 10 principles	3
Permaculture 3: Design techniques - zone & sector analysis	2
Permaculture 4: Design techniques - input-output analysis	2
Permaculture 5: Design techniques - P.O.B.R.E.D.I.M. & receiving design brief	3
Choosing/working on permaculture designs & meeting with staff	2
Working on permaculture designs & meetings with staff	7
Organic Agriculture/ Permaculture projects - what's out there	2
Evolution of the EcoCampus; the alumni network	3
Permaculture project presentations	3
Daily maintenance of the EcoCampus	12
Final words: a personal journey	2
Total contact hours Permaculture Design	44

II. Sustainable Agriculture	Contact hours
Introduction to composting - making soil the way the forest does	2
Garden bed preparation	5
Making a sheet mulch garden raised bed	2
Eco Cinema - FRESH	2
Square foot gardening & container gardening theory	1
Container gardening practical	3
Nursery work	2
Seed saving & seed balls	2
Companion planting, guilds & crop rotation	2
Compost Pt. 2: C/N ratios	2
Direct seeding	1
Trees & tree care	2
Vegetative propagation	2
Introduction to irrigation	2
Total contact hours Sustainable Agriculture	30

III. Natural Building & Ecological Design	Contact hours
Introduction to natural building: Earth mixing and adobe bricks	2
Start of earth building project - tires, trash & 1st coat	2
Principles and techniques of earth building	3
Earth building project - 2nd coat	2
Testing soil for building purposes	3
Mixing earth with a cement mixer and 3rd coat on project	2
The oiling process	2
Straw bale practical	2
Straw bale theory	1

Final coat and sculptural mud	2
Making final coat with a cement mixer & plastering the final coat	2
Ecological design 1: Environmental analysis, site and climate	2
Ecological design 2: Passive Solar and Energy Transfer	2
Ecological design 3: Technologies and Materials	2
Total hours contact Natural Building & Ecological Design	29

IV. Building Regenerative Community	Contact hours
Opening circle at Eco Park with staff & teachers	2
Building community: Group dynamics	3
Roots of the crisis and the holistic worldview	2
Sharing circles/ group building activities	6
Desert nature hike	3
The ecology of community	2
The problem of growth	2
History of Lotan and the vision statement	2
The economics of happiness	2
Kundalini yoga	2
Localization, bioregions, Transition Towns and Ecovillages	2
Closing circle with staff & certificate ceremony	3
Potluck food preparation of student community	8
Weekly Lotan community gathering and meal	8
Total contact hours Building Regenerative Community	47

V. Renewable Energy & Appropriate Technologies	Contact hours
Low energy cooking systems: Solar ovens & rocket stoves	2
Biogas systems from organic waste	2
Composting toilets	3
Traditional mud mass ovens (taboon)	2
Grey water systems	2
Geodesic domes	3
Collecting water from the landscape, marking out contours & swales	2
The story of sewage: black water	2
Photovoltaic systems	2
Total contact hours Renewable Energy & Appropriate Technologies	20

Total contact hours for program	170
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Green Apprenticeship Permaculture Design and Training Certification is in association with



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