



The Basics of Organic Food Production

Spring 2017

Dr. Elaine Solowey
3 weekly lecture hours, 3 credits

Course description

The purpose of this course is to present information about small scale organic food production, its potential and its problems. In this course we will explore the social and economic aspects of producing one's own organic food and engage students in practicing soil enrichment techniques, composting and vermin-composting, container gardening and keeping small livestock as well as seed saving, food storage, food preparation, slow food movements and the active preservation of heirloom fruits vegetables and animal breeds.

The semester includes a guest lectures and workshops on building greenhouses, cloches and chicken coops.

Grade components:

Final exam 40%
Project 35%

Students choose an aspect of organic food production to investigate independently, presenting at the end of the semester a report or demonstration project with a written component.

Assignments 20%
Attendance 5%

Students build and keep compost piles, plan and plant a garden, practice mulching, learning basic pruning techniques, construct a greenhouse from scrap material and design a chicken coop

Lesson One : Feb 16th

Course Introduction and issues

Dr Elaine Solowey

Growing food is only half of the process.....

Oldest Prepared foods...what came first, bread or cheese?

Lesson Two: Feb 17th

Gardens

Kingsolver, Barbara. Animal, Vegetable, Miracle, The Year of Eating Local, 2009

Logsdon, Gene. The Economics of Small Scale Grain Production.2009

Hands on in the garden

Assignment –what do you want to grow in your vegetable garden?

Arava Institute for Environmental Studies (ע"ר) מכון הערבה ללימודי הסביבה

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Lesson Three: Feb 23rd

Bringing Food Production Back Home

Dr Elaine Solowey

Readings: The staff of Life? Bread making and use.

Astyck, Sharon. How Much Did the Green Revolution Matter? Energy Bulletin Jan. 7, 2007

Lesson Four: Feb 24th

Rogers and Alexander. Saving Seeds, How Gardeners Protect and Preserve Seed Diversity, Storey Publications 1991

Hands on in garden

Assignment: A seasonal garden or all year around?

Lesson Five: March 1st

3: Good Food Starts with Good Soil

Dr Elaine Solowey

Readings. Jeavons J. The Intensive French Method of Growing Vegetables, What about containers?

Adapting to your area: 3 methods, which is for you?

Lesson Six : March 2nd

: CSAs, Seed Saving and Agricultural Diversity

Dr Elaine Solowey

Readings: Altieri, Miguel. The Ecological Impacts of Industrial Agriculture, 197-199, Fatal Harvest, Island Press, Corvelo, 2002

Hands on

How do we save seeds?

Lesson Seven: March 8th

Breeding your own vegetables, possible?

Lesson Eight: March 9th

Urban Gardening and Community Gardens

Dr Elaine Solowey

Readings:

Astyk, Sharon. What the Victory Gardens Produced, Depletion and Abundance, New Society Publishers, 2009

Compost piles hands on in the garden

March 15th -16th No classes (Water trip)

Lesson Nine: March 22nd

Campbell, Stu. Let It Rot! Composting and Vermiculture for Successful Gardens, Storey Publications 1998

Assignment: very small livestock

Lesson Ten: March 23rd

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Trees Dr Elaine Solowey

Readings: Smith, J. Russel. Tree Crops, A Permanent Agriculture, pages 3-19, Harper and Row, San Francisco, 1950

Hands on in the garden

Assignment: Do I have room in my garden for trees?

Lesson Eleven: March 29th

Readings: Solowey, Elaine. Small Steps towards Abundance, Chapter 3 Broadening the Base of the Pyramid, Thistle Syndicate/Bibliobooks, Acco, Israel, 2003

Lesson Twelve: Wise Agriculture: March 30th

Dr Elaine Solowey

Readings: Sauerkraut and Kimchi, traditional ways to achieve high vitamin food.

Hands on in garden

Assignment: How to plant a tree

Lesson Thirteen: April 5th

Luttman, Gail and Rick. Chickens in Your Backyard, Rodale Press 1976

Flottum, Kim. The Backyard Beekeeper, Rock Publications 2005

Assignment: Two kinds of hives

Lesson Fourteen April 6th

Field Trip Kibbutz Neot Semadar

Lesson Fifteen: April 12th

Permaculture, Biomimicry and the One Straw Revolution

Edible Landscapes

Dr Elaine Solowey

Taking a page from Bill Mollison

Is permaculture a possibilities

Kingsolver, Barbara. The First Month of spring, Animal, Vegetable, Miracle, Harper Perennial, 2008

Mollison, Bill. Permaculture, Chapter 8, Urban and Country Strategies, Quantus Press, Cairns, 2000

Assignment :Harvesting from wild zones. Is there something to eat even down here?

April 13- No class (PLS Trip)

Lesson Sixteen: May 3rd

Chickens in the Backyard-How animals can make your food garden more productive

Dr Elaine Solowey

Readings: Flottum, Kim **The Backyard Beekeeper**, Rock publications, 2005

Luttman, Rick and Gail, **Chickens in the Backyard**, 1976 Rodale Press

Assignment: What can chickens do for me

Design a coop

Lesson Seventeen: May 4th

Sustainable agriculture: cultivating rural/urban linkages

Dr Elaine Solowey

Readings: Wendell, Berry. The Unsettling of America

Barbara Kingsolver, A Matter of Motherhood-raising an Heirloom Breed, Animal, Vegetable, Miracle, Harper Perennial, 2008

Assignment: Growing what is legal to grow

Lesson Eighteen: May 10th

Extending the growing season (Greenhouses cloches row covers shade houses and active mulching)

Dr Elaine Solowey

Readings: Freeman and Bellaca, Building Your Own Greenhouse, Stackploe Books 1992

Hands on in garden

Assignment: Is a greenhouse something I need?

May 11th -No class (Yom Hazikaron)

Lesson Nineteen: May 17th

Food from the Garden throughout the year; Workshop on drying, freezing canning, root cellars and other storage methods

Dr Elaine Solowey

Readings: Green, Janet, Putting Food By 1992, A Plume Book

Costenbader, Carol. On Preserving the Harvest, Storey 1992

Assignment:Let's dry some food

Lesson Twenty: May 18th

Solowey, Elaine.

Treasures in the Backyard, Small Steps Towards Abundance, 2003

Berry, Wendell. Hope, pages 373 and 374, Fatal Harvest, Island press, Corvelo, 2002

Are there local plants I should add to my garden?

Lesson Twenty One : May 24th

Integrating larger livestock Goats from the Homesteading handbooks by Gehring Abaigail

Assignment: Design a goat pen, think of cows or other dairy livestock

Lesson Twenty Two: May 25th (Long session)

Presentations and review

Final Exam -(date TBA)

Required Readings:

- Ableman, Michael, **Urban Agriculture**, pages 357- 360, Fatal Harvest, Island Press, Corvelo, 2002
- Mittal, Anuradha, **The Growing Epidemic of Hunger in a World of Plenty**, pages 303-305, Fatal Harvest, Island Press, Corvelo, 2002
- Astyck, Sharon, **How Much Did the Green Revolution Matter?** Energy Bulletin Jan. 7, 2007
- Astyck, Sharon **What the Victory Gardens Produced**, Depletion and Abundance, 2009
- Berry, Wendell, **The Gift of Good Land**, Chapter 5, Chapter 7 and Chapter 8, North Point Press, San Francisco, 1984
- Berry, Wendell, **Hope**, pages 373 and 374, Fatal Harvest, Island Press, Corvelo, 2002
- Campbell, Stu, **Let It Rot, The Gardener's Guide to Composting** Storey Publications, 1998
- Costenbader, Carol, **On Preserving the Harvest**, Storey 1992
- Flottum, Kim **The Backyard Beekeeper**, Rock publications, 2005
- Freeman and Bellaca, **Building Your Own Greenhouse**, Stackploe Books 1992
- Green, Janet, **Putting Food By** 1992, A Plume Book
- Gehring Abigail Goats Skyhorse Publishing 2011
- Goering, Norton-Hodge and Page, Chapter 11 and 12, **From the Ground Up**, Zed Books, New York, 1993
- Jeavons, John, **How to Grow More Vegetables...**Ten Speed Press, 2006
- Kingsolver, Barbara, **Animal, Vegetable, Miracle**, Harperpreennial, 2008
- Kirchenmen, Frederick, Fatal Harvest, pages 91-95 **Scale Does it Matter?** Island Press, Corvelo, 2002
- Logsdon, Gene **Small Scale Grain Production**, revised 2009, WorthIt Publications
- Luttman, Rick and Gail, **Chickens In the Backyard**, 1976 Rodale Press
- Mollison, Bill, **Permaculture**, Chapter 8, Urban and Country Strategies, Quantus Press, Cairns, 2000
- Nabhan, Gary, **Enduring Seeds** Chapter 6, New Ways of Saving, North Point Press, San Francisco, 1989
- Pollen, Michael **All Flesh is Grass** from The Omnivore's Dilemma, Penguin, 2006
- Rogers and Alexander Saving Seeds, How Gardeners Protect and Preserve Seed Diversity, Storey Publications 1991
- Salatin Joseph **Pastured Poultry Profits**, Dunaway Paperbacks 1996
- Solowey, Elaine, **Small Steps Towards Abundance**, Chapter 3 Broadening the Base of the Pyramid, Treasures In the Backyard, Thistle Syndicate/Bibliobooks, Acco, Israel, 2003
- Smith, J. Russel, **Tree Crops, A Permanent Agriculture**, pages 3-19, Harper and Row, San Francisco, 1950