

The Basics of Organic Food Production

Dr. Elaine Solowey 3 weekly lecture hours, 3 credits. Undergraduate

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

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

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?

Lesson Three

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

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

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

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

Breeding your own vegetables, possible?

Lesson Eight

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

Lesson Nine

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

Assignment: very small livestock

Lesson Ten

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

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

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

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 Field Trip to Kibbutz Neot Semadar

Lesson Fifteen

Permaculture, Biomimicry and the One Straw Revolution Edible Landscapes

Dr Elaine Solowev

Taking a page from Bill Mollison

Is permaculture a possibility?

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?

Lesson Sixteen Hike to organic orchards

Dr Elaine Solowey

Lesson Seventeen

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 Eighteen

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 Nineteen

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?

Lesson Twenty

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 One

Dr Elaine Solowey

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 two

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 Three Review

Lesson Twenty Four Student Presentations

Lesson Twenty five Student Presentations

Final Exam

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, Harperprennial, 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