Fruit Production
(3.0 credits)

Normally Offered: Spring Odd years. By Dr. Durner.

Pre-requisites and other registration restrictions:
01:119:101 General Biology or 01:119:115

Format: This course is a hybrid course with 50% ONLINE and 50% IN Class.

Description:
An examination of fruit crop production in the northern mid-Atlantic, with particular attention on crops most suited to small-scale and homeowner production.

Learning Goals:
• To understand the basic processes underlying plant growth and how they relate to successful fruit production.

• To understand the effects of temperature, light, water, pruning and training on fruit crop growth, development and productivity.

Measures of Assessment:
• Three exams.
• One 5 to 7 page research paper covering a topic germane to modern fruit production.

Course Website:
eCollege/eCompanion

Topics:
• Horticulture - Whole Plant Integration of Many Disciplines
• The Plant Hormones
• Growth, Development and Plant Movement
• Physiology of Growth in Specific Organs: Roots, Stems and Leaves
• Physiology of Growth in Specific Organs: Flowers, Fruit and Seeds
• Some Abiotic Plant Stressors - Oxygen, Minerals and Salt
• Water and Plants
• Light Energy and Plant Function
• Temperature Effects on Growth and Development of Plants
• The Soil and Its Environment
• The Greenhouse Environment
• Seeding and Seedling Establishment
• Pruning, Training, Growth and Plant Size
• Grafting and Rootstocks
• From Harvest to Market
• Post-harvest Physiology
• Human Nutrition, Phytonutrients, Nutraceuticals and Horticulture

**Required and Recommended Course materials:**
Principles of Horticultural Physiology

By: Edward, F. Durner

Paperback: 440 pages

Publisher: CABI (August 2013)

Language: English

ISBN-10: 1780640250


**Policies for Exams, Assignments, Attendance, and Grading**

Exams 75%

Research Paper 25%

**Other Information:**
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