

Dakota County Technical College

LAHT 1740: Infrastructure for Sustainable Food Systems

A. COURSE DESCRIPTION

Credits: 2

Lecture Hours/Week: 1

Lab Hours/Week: 1

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course introduces students to the multitude of manmade and natural structures essential to the successful production of food crops including soil building and bed preparation, raised beds, trellising and other means of plant support, water catchment and irrigation systems, structures for season extension and protection from garden predators. Through hands-on exercises and projects, students will learn about the materials, tools and techniques used in their construction and upkeep.

B. COURSE EFFECTIVE DATES: 08/26/2013 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

1. Describe and construct the various means of plant support most common to an urban farmstead
2. Describe and implement the process for building healthy soils
3. Describe various methods of water harvesting and storage
4. Design and construct a simple drip-irrigation system
5. Design and construct simple season extension structures
6. Design and construct systems for predator control
7. Design and prepare various types of planting beds including at grade, raised and container
8. Explain the advantages, function and various techniques of season extension in northern climates
9. List common predators of urban farmsteads and discuss both man made and natural deterrents
10. To demonstrate the safe use of tools and equipment used in constructing farmstead infrastructure

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted