

# Dakota County Technical College

## LAHT 2020: Permaculture Based Food Systems Design

### 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 explores Permaculture - based design principles and their application to the small-scale homestead or urban farm. Through research and hands-on design studio exercises students will learn how to design small scale food systems in urban environments that mimic the resiliency and abundance of natural ecosystems. Students will learn techniques for gathering and organizing critical site information in preparation of the site analysis, program development and a successful design solution. Information and skills learned in this course will be synthesized in a final design project for the student's own homestead or urban farm. Prerequisites: None. Suggested: LAHT 1600: Landscape Design I

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

### C. OUTLINE OF MAJOR CONTENT AREAS

### D. LEARNING OUTCOMES (General)

1. To become familiar with the graphic techniques of presenting analysis and design ideas on paper
2. To become familiar with the principles of Permaculture-based design
3. To become familiar with the process of creating a design program
4. To become familiar with the sources and means of gathering site information
5. To create a final design solution for a Permaculture-based homestead or urban farm
6. To learn how to assess and analyze site information
7. To understand the natural processes intrinsic to healthy ecosystems
8. To understand the process of creating a preliminary design solution
9. To understand the process of synthesizing site information
10. To understand the purpose and creation of functional diagrams

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted