

# Minnesota State University Moorhead

## SUST 421: Systems Thinking

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: 0

OJT Hours/Week: \*.\*

Prerequisites:

This course requires the following prerequisite  
SUST 200 - Nature of Sustainability

Corequisites: None

MnTC Goals: Goal 08 - Global Perspective

This course develops your ability to interpret any environmental issue within a systems thinking framework. Using a systems approach we will explore current trends and discuss future scenarios from a local to a global scale. A global perspective is essential to understanding the complexity of the Grand Societal Challenges facing our planet. MnTC Goal 8.

**B. COURSE EFFECTIVE DATES:** 02/01/2018 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

### D. LEARNING OUTCOMES (General)

1. Demonstrate an understanding of systems thinking.
2. Design quantifiable system models.
3. Understand the exponential function and other non-linear system effects.
4. Apply systems thinking to socio-environmental issues.
5. Describe and analyze political, economic, and cultural elements which influence relations of states and societies in their historical and contemporary dimensions.
6. Analyze specific international problems, illustrating the cultural, economic, and political differences that affect their solution.
7. Understand the role of a world citizen and the responsibility world citizens share for their common global future.

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

Goal 08 - Global Perspective

1. Describe and analyze political, economic, and cultural elements which influence relations of states and societies in their historical and contemporary dimensions.
2. Analyze specific international problems, illustrating the cultural, economic, and political differences that affect their solution.
3. Understand the role of a world citizen and the responsibility world citizens share for their common global future.

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted