

# Dakota County Technical College

## NANO 1110: Student Research

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 2

Lab Hours/Week: 1

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course will provide introductory experience with nanoscience equipment, investigative research approaches and critical thinking methodologies. The students will work on industry provided problems and examples, traditional nonoscience experiments and independent work. This class will focus on the investigative process, scientific method and project planning. Students will apply and investigate foundational nanotechnology concepts while learning basic equipment operation, safety techniques and basic lab procedures.

**B. COURSE EFFECTIVE DATES:** 12/10/2010 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

### D. LEARNING OUTCOMES (General)

1. critical thinking and scientific method
2. initial equipment understanding and usage ability
3. learn lab safety knowledge
4. project planning methodology

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted