A. COURSE DESCRIPTION
Credits: 3
Lecture Hours/Week: 0
Lab Hours/Week: 0
OJT Hours/Week: *.*
Prerequisites: None
Corequisites: None
MnTC Goals: None
This is a project based course that introduces fundamental concepts of engineering design, effective teams, lab safety, and engineering ethics. Basic mechanical systems and simple machines will also be covered. Students are required to demonstrate competency in scheduling, applying fabrication techniques, and documentation. Projects are presented at the end of the semester. Prerequisite: TADT 1210, PHYS 1101.

B. COURSE EFFECTIVE DATES: 08/22/2016 - Present

C. OUTLINE OF MAJOR CONTENT AREAS
1. Engineering Ethics
2. Group Roles and Effective Teams
3. Laboratory Notebook Practices
4. Laboratory Safety
5. Technical Presentation Skills

D. LEARNING OUTCOMES (General)
1. be able to incorporate various separating processes in their project designs.
2. be able to calculate mechanical advantage for simple and compound machines.
3. be able to maintain a laboratory notebook for lab and project work.
4. be able to apply their knowledge of mechanics, fluids, and/or energy to project designs.
5. be able to effectively use technology to deliver presentations of their work.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
None

F. LEARNER OUTCOMES ASSESSMENT
As noted on course syllabus

G. SPECIAL INFORMATION
None noted