TADD 3690: TAD LAB: SolidWorks

A. COURSE DESCRIPTION
   Credits: 2
   Lecture Hours/Week: 0
   Lab Hours/Week: 0
   OJT Hours/Week: *.*
   Prerequisites: None
   Corequisites: None
   MnTC Goals: None
   This course introduces students to the use and application of SolidWorks 3D CAD software. SolidWorks is used by engineers, designers, model makers, and fabricators. Students will learn to use SolidWorks to turn ideas into designs and provide a vehicle to manufacturing 3D parts by CNC machining, 3D printing, and other processes. Prerequisites: TADD 3680.

B. COURSE EFFECTIVE DATES: 08/01/2024 - Present

C. OUTLINE OF MAJOR CONTENT AREAS
   1. Introduction to SolidWorks
   2. Creating Parts in SolidWorks
   3. Creating Assemblies in SolidWorks
   4. Creating Orthographic Drawings in SolidWorks

D. LEARNING OUTCOMES (General)
   1. design 3D models using SolidWorks.
   2. create Assemblies using SolidWorks.
   3. create dimensioned drawings using SolidWorks.
   4. learn the tools necessary to pass the SolidWorks CSWA exam and obtain the SolidWorks Associate Certificate.

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

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted