Bemidji State University

TADD 4860: Advanced Prototype Engineering & Model Making

A. COURSE DESCRIPTION

   Credits: 2
   Lecture Hours/Week: 0
   Lab Hours/Week: 0
   OJT Hours/Week: *.*
   Prerequisites: None
   Corequisites: None
   MnTC Goals: None

   In this course the student will work in collaboration with an industry professional to construct a physical architectural or prototype model. This project will be determined by the student’s desired career path. This project will require a culmination of skill sets learned to complete the project as well as the appropriate use of materials, processes and interpretation of client documentation. Emphasis will be on shop safety, accuracy, and professionalism, and project management, problem solving and working within specified tolerances. Prerequisite(s): Senior status.

B. COURSE EFFECTIVE DATES: 08/01/2022 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

   1. Professional model construction
   2. Project management
   3. Industry professional relations
   4. Presentation delivery

D. LEARNING OUTCOMES (General)

   1. identify a project in collaboration with an industry professional.
   2. apply processes needed to execute a design plan.
   3. construct a model to specified dimensions and/or tolerances.
   4. create a journal of project construction and meetings.

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

   None

F. LEARNER OUTCOMES ASSESSMENT

   As noted on course syllabus

G. SPECIAL INFORMATION

   None noted