Bemidji State University

TADD 3678: TAD LAB: CNC Woods

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 is designed to introduce students to vector-based cutting operations in wood and paper products. Students will apply knowledge gained in the classroom to sketch, create measured files in various software and execute their assignments using a variety of CNC equipment available to them. Laser cutting/etching, cardboard cutting/folding, and wood CNC milling are basic operations we will cover.

B. COURSE EFFECTIVE DATES: 08/20/2022 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Kongsberg Cardboard Cutter
2. Shop Bot
3. Laser machine
4. Safety procedure and operation
5. Design software and application to projects
6. Understanding of joinery, hardware, and assembly of projects

D. LEARNING OUTCOMES (General)

1. explore various software allowing them to create their projects.
2. learn to sketch and plan their projects to create successful results.
3. familiarize themselves with industry terms related to each process.
4. develop a greater understanding for developing designs for large-scale production.

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted