

## Learning Experience Template

Course/Seminar Title: **Tech Trades - Woods V (CP)**

**HS82512 (.5 credits)**

Seminar

**Course**

Other

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### Learning Experience Description:

This course will focus on advanced design and production techniques to allow for the creation of a student-chosen large project, such as a grandfather clock, river table, or other type of fine work that involves all of the processes learned through the Tech Trades sequence. This project must be agreed upon in advance between student and instructor, and the student is responsible for the cost of all materials not normally carried in the shop. Students review, practice, and demonstrate safe and appropriate use of tools and equipment learned in Tech Trades I- IV, and will learn and demonstrate further advanced techniques for tools already learned. Students will use the Engineering Design Process to imagine, design, and construct their capstone project, including using CADD software to assist in design. Advanced topics in tool use, construction, and finishing will be addressed according to the needs of the project.

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### Measurement Topic areas touched upon in the learning experience (quick list):

Industrial Technology: Drafting  
Industrial Technology: Production  
Industrial Technology: Safety  
Mathematics: Geometry: Measurement

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### Expected Learning Targets (that students would have an opportunity to certify on):

IA.DRAFT.HS.2	3: Is skilled at creating a technical drawing for a product 2: Knows a conceptual sketch for a given product
IA.PRO.HS.2	3: Understands how to use the Design Loop/Process to create a quality product 2: Understands the criteria/components that constitute a quality product
IA.SAF.HS.3	3: Is skilled at using safety procedures while using the lab equipment 2: Knows procedures for using each piece of equipment
MA.GME.8.8	3: Understands reproducing a scale drawing at a different scale of a geometric shape or drawing 2: Knows the terms: scale, scale drawing

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### Other related Measurement Topics/Learning Targets that may be touched upon and possibly certified by students (likely through additional work):

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### Suggested Prerequisite Learning Experiences (courses, seminars, learning targets):

Tech Trades - Woods IV