

# ATFL-2320: WOOD FLOORING II

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## Cuyahoga Community College

**Viewing: ATFL-2320 : Wood Flooring II**

**Board of Trustees:**

1/30/2025

**Academic Term:**

Fall 2025

**Subject Code**

ATFL - Appld Indus Tech - Floorlaying

**Course Number:**

2320

**Title:**

Wood Flooring II

**Catalog Description:**

Advanced flooring systems using acrylic, engineered, and laminate systems with special attention given to custom layouts such as herringbone and diagonal installations, riser, tread, bullnose installation, and proper floor sanding techniques.

**Credit Hour(s):**

2

**Lecture Hour(s):**

2

## Requisites

**Prerequisite and Corequisite**

ATFL-1450 Floorlaying Concepts or concurrent enrollment, or departmental approval.

## Outcomes

**Course Outcome(s):**

Interpret prints to determine jobsite specifications and estimate needed materials.

**Objective(s):**

1. Apply math concepts to estimate needed materials.
2. Recognize symbols, scale, and special references for acrylic, engineered and laminate wood flooring systems.

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**Course Outcome(s):**

Prepare, layout, and install acrylic, engineered, and laminate wood flooring and trim systems according to jobsite specification.

**Objective(s):**

1. Layout and install a floor following a diagonal layout design.
  2. Layout and install a floor following a custom layout design.
  3. Differentiate between the preparation needed for a finished acrylic, engineered and laminate wood flooring system.
  4. Identify various engineered wood products and laminate systems.
  5. Demonstrate safe use of hand and power tools and material handling in the wood industry.
  6. Test for moisture.
  7. Layout material, applying appropriate math concepts.
  8. Identify subfloor requirements.
  9. Install various wood flooring and trims applicable.
  10. Layout and install a floor following a herringbone layout design.
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**Methods of Evaluation:**

1. Quizzes
2. Exams
3. Classroom participation
4. Completion of assigned projects

**Course Content Outline:**

1. Concepts
  - a. Engineered wood flooring and laminate flooring as related to the manufacturing process.
  - b. Subfloor requirements.
  - c. Math concepts used for laying out wood floors.
  - d. Moisture testing.
  - e. Blueprint reading.
  - f. Tools used to cut and install laminate and engineered wood flooring.
  - g. Bullnose installation techniques
  - h. Riser installation
  - i. Tread installation
  - j. Custom layouts
  - k. Herringbone layout
  - l. Diagonal layout
  - m. Characteristics of acrylic engineered laminate systems
2. Skills
  - a. Reading blueprints for room location and type of wood to be installed.
  - b. Estimating material requirements - square footage.
  - c. Testing for moisture.
  - d. Preparing subfloor as required by manufacturer.
  - e. Using a herringbone design to layout a flooring system.
  - f. Using a diagonal design to layout a flooring system.
  - g. Using custom designs to layout a flooring system.
  - h. Laying out laminate floors.
  - i. Laying out engineered wood floors.
  - j. Installing engineered wood floors.
  - k. Installing laminate floors.
  - l. Installing any molding or trims as applicable.

**Resources**

*Wood Flooring Installation Guidelines.* NWFA, St. Louis, Missouri, 2019.

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*Moisture and Wood.* NWFA, St. Louis, Missouri, 2019.

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*Wood Species.* NWFA, St. Louis, Missouri, 2019.

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*Wood Flooring Sand and Finish Guidelines.* NWFA, St. Louis, Missouri, 2016.

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*Ornamental Floors.* NWFA, St. Louis, Missouri, 2015.

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**Resources Other**

[Carpenter's International Training Fund.](https://www.carpenters.org/citf-training/) <https://www.carpenters.org/citf-training/> . 2024.

Key: 342