

# ATFL-2300: CERAMICS II

## Cuyahoga Community College

**Viewing:** ATFL-2300 : Ceramics II

**Board of Trustees:**

May 2025

**Academic Term:**

Fall 2025

**Subject Code**

ATFL - Appld Indus Tech - Floorlaying

**Course Number:**

2300

**Title:**

Ceramics II

**Catalog Description:**

Ceramics design, material and tile installation in wet areas such as food prep, pools, shower and laundry.

**Credit Hour(s):**

2

**Lecture Hour(s):**

2

### Requisites

**Prerequisite and Corequisite**

ATFL-1620 Ceramics I or concurrent enrollment, or departmental approval.

### Outcomes

**Course Outcome(s):**

Complete standard installation including preparation, material handling, layout, grid, troweling, grouting, and base.

**Objective(s):**

1. Differentiate between standard installation techniques and wet area installation techniques.
2. Discuss proper material handling techniques.
3. Demonstrate using a grid to layout tile for a standard installation.
4. Demonstrate proper troweling and grouting techniques.
5. Demonstrate proper base installation techniques.

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**Course Outcome(s):**

Identify and select proper materials, prepare surfaces, layout, cut and install ceramic flooring in wet areas such as food prep, pools, shower, and laundry in accordance with jobsite specifications and established safety procedures.

**Objective(s):**

1. Determine proper grading to use for wet area ceramic tile installation.
2. Prepare any floor surface to receive ceramic material for various installations.
3. Identify various ceramic materials used for floor covering including pavers, mosaic, porcelain, and ceramic tiles.
4. Demonstrate proper procedures for tile installation in wet areas.
5. Prepare layout and install ceramic tile in shower rooms.

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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. Materials necessary for completion
    - i. Paver
    - ii. Mosaics
    - iii. Porcelain
    - iv. Abrasive/non-slip
    - v. Quarry, membrane
    - vi. Insets
    - vii. Mastic
  - b. Materials necessary for completing showers.
  - c. Design
  - d. Appropriate uses for various adhesives
  - e. Standard installation techniques
  - f. Wet area installation techniques
  - g. Material handling guidelines
  - h. Troweling techniques
    - i. Grouting techniques
    - j. Priming techniques
    - k. Acid etching techniques
    - l. Drain and mesh completion techniques.
  - m. Grading types
  - n. Waterproofing techniques
2. Skills
  - a. Preparing floor surface.
  - b. Priming scarfing, and acid etching flooring.
  - c. Completing drains and mesh.
  - d. Preparing floor for standard installation.
  - e. Laying out floor for standard installation.
  - f. Grouting
  - g. Troweling
  - h. Installing base for standard installation.
    - i. Installing tiles for standard installation.
    - j. Marking the grid to layout tiles
  - k. Using proper techniques for handling specified materials.
    - l. Preparing floor for wet area/shower room installation
  - m. Layout tiles for wet area/shower room installation.
  - n. Waterproofing for wet area/shower room installation
  - o. Grading for wet area/shower room installation.
  - p. Installing sanitary base for wet area/shower room installation..
  - q. Installing ceramic tiles in wet areas/shower rooms.
  - r. Installing ceramic tile showers including the curb, membrane, and mud.

**Resources**

Carpenters International Training Fund. *Standard Skills for Floor Coverers: Part 1*. Carpenters International Training Fund, Las Vegas, NV, 2012.

**Resources Other**

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

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