

Title

Ceramics and the Community

Instructor

Erin Hunt, Assistant Professor

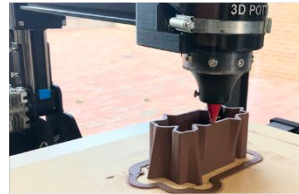
Office: Architecture 505C

Office Hours: By appointment via email

Email: erin.hunt@ttu.edu



Brick in Downtown Lubbock



Students using the Potterbot Clay Printer and Creating Clay Slump Tiles

Description

Ceramics are experiencing a resurgence in architecture brought forward by the 3D print revolution. Clay fabrication allows for myriad possibilities through glazes, ornament, texture, and its ability to take any shape.

Students will be asked to work with clay through multiple short hands-on assignments during the semester, including custom hollow extrusions, 3D printing, and slump molding. The goal is to employ this material in their building design in a novel and innovative way. The students will be tasked with creating a mockup of their system for the final review. The instructor will supply all clay, tools, and fabrication equipment.

The students will design a community center in downtown Lubbock along the First Friday Art Trail. It will house mixed-use public recreation spaces and a community garden. Integrating ceramic elements will allow the building to fit in with the vernacular architecture of its context while bringing a modern aesthetic. Emphasis will be placed on the design of systems that allow for optimum natural lighting and ventilation.

Studio Structure

Phase 01- Research

- Precedent Research
 - Program
 - Ceramics
- Site Research
- Site Model at 1":32'
- Hollow Extrusion Fabrication

Phase 02- Program + Schematic Design

- Site and Form Investigations
- Site, Program, Massing
- Sections, Plans, Diagrams
- Slump Tile Fabrication

Phase 03- Integration

- Integration of Structure
- Performance Analysis + Implementation
- Creation of Mock Façade Design
- 3D Printing Clay Blocks or Tiles

Phase 04- Synthesis

- Final Drawings + Diagrams
- Details and Code
- Building Model at 1":32'
- Ceramic Façade Mock-up