

CNST A211: DECORATIVE CONCRETE

Item	Value
Curriculum Committee Approval Date	12/02/2020
Top Code	095260 - Masonry, Tile, Cement, Lath and Plaster
Units	3 Total Units
Hours	90 Total Hours (Lecture Hours 36; Lab Hours 54)
Total Outside of Class Hours	0
Course Credit Status	Credit: Degree Applicable (D)
Material Fee	No
Basic Skills	Not Basic Skills (N)
Repeatable	No
Open Entry/Open Exit	No
Grading Policy	Standard Letter (S), • Pass/No Pass (B)

Course Description

An introductory course in decorative concrete. Topics covered include: stamped concrete, decorative borders, staining, stencils, engraving, polishing, and overlays. Transfer Credit: CSU.

Course Level Student Learning Outcome(s)

1. Properly stamp wet concrete using appropriate tools and techniques.
2. Properly stain concrete using stains and appropriate techniques.
3. Properly engrave a medallion into concrete using equipment and proper techniques.
4. Propely prepare exising concrete for an overlay material.

Course Objectives

- 1. Stamp a concrete slab with proper tools and techniques.
- 2. Stain concrete using acid and water based stains.
- 3. Engrave concrete borders and medallions.
- 4. Refinish a smooth slab with a concrete overlay.
- 5. Decorate a slab using stencils.
- 6. Use a polishing machine to finish concrete.

Lecture Content

INTRODUCTION Decorative Options Equipment needed Jobsite safety
 STAMPED CONCRETE Sub base preparation Forming Coloring Stamp
 patterns Stamping procedure Sealing STAINING Material options
 Surface preparation Stain application Sealing OVERLAYS Material
 options Surface texture options Hand application Spray application
 ENGRAVING Borders Medallions Lettering Polishing Equipment Surface
 preparation Polishing procedure Maintenance STENCILS Patterns
 Surface preparation Application

Lab Content

CONCRETE STAMPING Students will stamp fresh concrete in lab area.
 Students will stamp decorative borders and medallions in lab area.

STAINING Students will prepare a slab to receive staining materials.
 Students will apply staining materials. OVERLAYS Students will prepare
 surface area to receive overlay material. Students will install overlay
 material. ENGRAVING Students will engrave decorative borders. Students
 will engrave decorative medallions. POLISHING Students will prepare a
 slab to be polished. Students will polish a slab. STENCILS Students will
 finish a slab using stencil patterns.

Method(s) of Instruction

- Lecture (02)
- DE Live Online Lecture (02S)
- Lab (04)
- DE Live Online Lab (04S)

Instructional Techniques

1. Detailed multimedia/lectures of each topic covered. 2. Student
 feedback during each lecture. 3. Detailed illustrative discussions of
 lecture handout and textbook information. 4. Laboratory construction
 projects pertaining to subjects discussed during which students work
 individually and in small groups.

Reading Assignments

Students will be assigned a weekly reading assignment.

Writing Assignments

Students will be assigned a research paper on methods and techniques
 of decorative concrete.

Out-of-class Assignments

Students will be assigned a weekly homework assignment from
 assigned reading.

Demonstration of Critical Thinking

1. Tests and quizzes 2. Lab construction projects 3. Research
 assignment.

Required Writing, Problem Solving, Skills Demonstration

Students must show proficiency in material quantity calculations.
 Students must show proficiency in the installation of decorative concrete
 components.

Eligible Disciplines

Construction technology: Any bachelor's degree and two years of
 professional experience, or any associate degree and six years of
 professional experience.