

Course Syllabus

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A6784 **Brick Terra Cotta & Stone**

Spring 2017 **Tuesdays 1:00-4:00 pm**

655 Schermerhorn Extension

Norman Weiss, Dan Allen and George Wheeler

Summary

This course explores the group of traditional masonry materials – brick, terra cotta and stone. The format includes lectures, demonstrations, field and laboratory exercises and field trips. The goals of the course are to provide: 1) an historical overview of their manufacturing and sourcing as architectural materials with a focus on the 18th century to the present; 2) an understanding of their fundamental material properties in relation to their use and deterioration in a range of masonry construction systems; and 3) an exploration of the means and methods of their repair, maintenance, and conservation.

Schedule

Class 1	Lecture: classification & characteristics of building stone
Class 2	Lecture: ceramic science; basic properties of brick and terra cotta
Class 3	Lecture: deterioration of brick, terra cotta and stone
Class 4	Lecture: historical overview of the use of brick
Class 5	Field trip: Allan Gilbert, Fordham University brick collections
Class 6	Lecture: historical overview of the use of terra cotta
Class 7	Lecture: production of terra cotta
Class 8	Lecture: repair strategies for terra cotta
Class 9	Lecture/demonstration: common U.S. building stones
Class 10	Lecture: stone cladding
Class 11	Lecture/demonstration: consolidation and surface treatments
Class 12	Lecture/demonstration: repair of stone
Class 13	Field trip: Darrell Petit, Stony Creek Quarry, Branford, CT
Class 15	Lecture: cleaning methods for brick, terra cotta & stone
Class 16	Field trip: Kate Ottavino, A. Ottavino Corporation, Ozone Park, NY

Grading

Attendance and Class Participation 20%

Assignments 80%