Spring 2015 **Tuesdays 1:30-4:00 pm** **655 Schermerhorn Extension**

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Summary

This course explores the group of traditional masonry materials--brick, terra cotta and stone. The format includes lectures, demonstrations 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

20 January	Lecture: classification & characteristics of building stone
27 January	Lecture: ceramic science; basic properties of brick and terra cotta
3 February	Lecture: deterioration of inorganic porous materials (brick, terra cotta & stone)
10 February	Field trip: Allan Gilbert, Fordham University brick collections
17 February	Lecture: historical overview of the use of brick
24 February	Lecture: historical overview of the use of terra cotta
3 March	Lecture: production of terra cotta
10 March	Lecture: repair strategies for terra cotta
16-20 March	**SPRING BREAK**
24 March	Lecture/demonstration: common U.S. building stones
31 March	Lecture/demonstration: consolidation and surface treatments
7 April	Lecture/demonstration: repair of stone
14 April	Field trip: Darrell Petit, Stony Creek Quarry, Branford, CT
21 April	Lecture: cleaning methods for brick, terra cotta & stone
28 April	Field trip: Kate Ottavino, A. Ottavino Corporation, Ozone Park, NY

Grading

Attendance and Class Participation 10%

Assignments/quizzes 60%

Group Assignment 30%

Readings

Posted to *CourseWorks* in the Shared Files folder