

Architectural Conservation and Sustainability Engineering (ACSE)

Arch. Conservation and Sustainability Eng. (ACSE) Courses

ACSE 3201 [0.5 credit]

Introduction to Building Performance Simulation

Modelling and simulation to support design, retrofit, rehabilitation of new and existing buildings on performance - energy, comfort, emissions; from basics of numerical modelling to parametric design techniques.

Includes: Experiential Learning Activity

Prerequisite(s): Third-year status in B.Eng. Architectural Conservation and Sustainability Engineering, Environmental Engineering or Civil Engineering, or fourth-year standing in B.A.S. concentration in Conservation and Sustainability.

Lecture 3 hours per week, computer lab/problem analysis 3 hours every other week

ACSE 4101 [0.5 credit]

Introduction to Structural Assessment of Historic Masonry Buildings

History of conservation and restoration; types of historic buildings and structural components; mechanical properties and mechanics of masonry constructions; thrust line analysis; masonry buildings, structural walls, seismic damage, basic concepts, and design of masonry structures.

Includes: Experiential Learning Activity

Prerequisite(s): CIVE 2200, CIVE 2700.

Lecture 3 hours per week, lab/problem analysis 3 hours every other week