

Number & Title of Course (total credits awarded):

ARC 5470 Introduction to Technology, 3 cr hrs

Course Description (limit 25 words):

An introduction to the core aspects of architectural technology. The course begins by looking at the interrelation and integral nature of making. Each particular core aspect of architectural technology e.g., materials, structure, envelop, construction, environmental systems, is then presented in light of its essential underlying fundamentals.

Course Goals & Objectives (list):

Basic understanding of architectural use and sustainability of materials and their properties, structure types and structural principles, role of the building envelope, and technique/construction systems, the place of the detail, thermal comfort, site and sustainability.

Student Performance Criterion/a addressed (list number and title):

Understanding:

B.5, Structural Systems; B.8 Building Material and Assemblies;

C.2, Integrated Evaluations and Decision Making Design Process;

C.3, Integrated Design

Topical Outline (include percentage of time in course spent in each subject area):

Week 1: Architectural Technology Overview

Week 2 - 4: Building Materials

Week 5 – 7: Structural Systems

Week 8 and 9: Envelope Systems

Week 9-11: Construction, Technique and the Tectonic

Week 12 – 14 Environmental Systems, Site and Sustainability

Prerequisites:

n/a

Textbooks/Learning Resources:

Readings provided online from historical and contemporary texts.

Offered (semester and year):

Fall semester, annually

Faculty assigned:

Steven Cooke, F/T