ARC 2470, Introduction to Technology of Architecture, 3 credits.

The lecture course provides a survey of structures, environment technology, and materials and methods of construction. This course introduces themes that cut across these technology areas such as the response of buildings to the natural and built environments, strength and durability in building materials, and quantitative methods of analysis and design of building assemblies and support systems.

**Course Goals & Objectives:**

To introduce the basic principles of sustainability in making architecture and urban design decisions.
To introduce the basic principles of structural behavior in withstanding gravity and lateral forces.
To introduce the basic principles of environmental systems including heating, cooling, lighting and acoustics.
To introduce the basic principles which inform the design of building envelope systems.

**Student Performance Criterion/a addressed:**

None

**Topical Outline:**

Sustainable Design 20%
Structural Systems 20%
Environmental Systems 20%
Building Envelope Systems 20%
Building Systems Integration 20%

**Prerequisites:**

None

**Textbooks/Learning Resources:**

Allen, Edward *How Buildings Work: The Natural Order of Architecture*

**Offered:**

Fall only; annually

**Faculty assigned:**

Donald Gray (Visiting)
Beth Lewis (F/T)
Gretchen Miller (Visiting)