

# ENVIRONMENTAL ARCHITECTURE (EVAR)

## **EVAR 3000 Pre-Modern Architectural History and Theory I 3 cr**

Provides a historical and theoretical understanding of early Greek, Roman, Gothic and non-western architectural topics and their influence. Content is explored using primary texts where possible, and through critical analysis of selected topics. May not be held for credit with the former EVDS 2690, EVDS 2610, ARCH 6320 or ARCH 6420.

**Equiv To:** ARCH 6430, EVDS 2620

## **EVAR 3002 Pre-Modern Architectural History and Theory II 3 cr**

Provides a historical and theoretical understanding of Gothic and Renaissance architectural topics and their influence, up to the work of Claude Perrault. Content is explored using primary texts where possible, and through critical analysis of selected topics. May not be held for credit with EVDS 2620 or ARCH 6340.

**Equiv To:** ARCH 6340, EVDS 2620

## **EVAR 3004 ARCH TECH 1 3 cr**

Construction materials and structural theory in the analysis and design of simple wood-frame, masonry and light steel construction; fundamental passive energy systems and design strategies for material and energy reduction. May not be held for credit with EVDS 1690 or ARCH 6480.

**Equiv To:** ARCH 6480

## **EVAR 3006 Architectural Technology 2-Building Construction, Structures & Envelopes 3 cr**

Architectural, environmental and technical aspects of construction focusing on low-rise and medium sized wood, steel and masonry construction including issues of material production/manufacturing, soils, foundation, envelope systems, basic mechanical systems and their integration and acoustic concerns. May not be held for credit with the former EVDS 2670, EVDS 2700, ARCH 6520 or ARCH 6530

**Equiv To:** ARCH 6530, EVDS 2670, EVDS 2700

## **EVAR 3008 Architecture Design Studio 1 9 cr**

An architectural study of the human condition in relation to the natural and built environment through design oriented research exploration, analysis, evaluation and interpretation of a selected subject of inquiry. Various ways of seeing and making are applied as tools for critical thinking to align content with modes of representation. May not be held for credit with former EVDS 2630 or ARCH 6380.

**Mutually Exclusive:** ARCH 6380, EVDS 2640

## **EVAR 3010 Architecture Design Studio 2 9 cr**

Building upon first term explorations, architectural propositions are developed that seek to clarify relations between human inhabitation and the physical environment in a regional context. Design principles influenced by programmatic, theoretical, historical, technological material and environmental criteria are examined. May not be held for credit with former EVDS 2640 or ARCH 6390.

**PR/CR: A minimum grade of C is required unless otherwise indicated.**

Prerequisite: EVAR 3008.

**Mutually Exclusive:** ARCH 6390, EVDS 2640

## **EVAR 3012 Architecture Technology Preparation: Structural Concepts 3 cr**

A preparatory block course introducing the fundamentals of structural concepts in architecture that prepares students for the foundation technology courses in architecture. May not be held for credit with EVDS 2300 (or former EVDS 1690), EVDS 1700 or ARCH 6480.

**Equiv To:** ARCH 6480, EVDS 1690, EVDS 1700, EVDS 2300

## **EVAR 3014 Drawing: Freehand/Digital 3 cr**

An introduction to drawing skills that allows students to become articulate in proposing and studying architecture through drawing. The course covers a range of media. May not be held for credit with the former ARCH 6532 or ARCH 6370

**Equiv To:** ARCH 6370, ARCH 6532

## **EVAR 4000 Modern Architectural History and Theory I 3 cr**

Provides a historical and theoretical understanding of the origins of modernity in architecture. Content is explored using primary texts where possible, and through critical analysis of selected topics. May not be held for credit with former EVAR 3700, EVAR 3470, ARCH 6460 or ARCH 6450.

**Equiv To:** ARCH 6460, EVAR 3470, EVAR 3700

## **EVAR 4002 Architectural Technology 3-Building Systems 3 cr**

Integrated building systems focusing on multi-story steel and concrete construction including: passive and active heating, cooling, and ventilation methods, strategies and designs, electrical, water, communication, security, fire protection, and vertical transportation systems; and building code constraints. May not be held for credit with the former EVAR 3560, EVAR 3570, ARCH 6500 or ARCH 6510.

**Equiv To:** ARCH 6500, ARCH 6510, EVAR 3560, EVAR 3570

## **EVAR 4004 Architecture Design Studio 3 9 cr**

This studio focuses on the broader cultural implications of social interaction and the collective inhabitation of the built and natural environments. Architecture design explorations are influenced by a thorough examination of programmatic, theoretical, historical, technological, material and environmental criteria. May not be held for credit with the former EVAR 3680 or ARCH 6400

**Mutually Exclusive:** ARCH 6400, EVAR 3680

## **EVAR 4006 Modern Architectural History and Theory II 3 cr**

Provides an historical and theoretical understanding of 20th century topics in architecture (western and non-western). Content is explored using primary texts where possible, and through critical analysis of selected topics. May not be held with the former EVAR 3330, EVAR 3480, ARCH 6440 or ARCH 6470.

**Equiv To:** ARCH 6440, ARCH 6470, EVAR 3330, EVAR 3480

## **EVAR 4008 Arch Tech 4: Comprehensive Design Technology Report 3 cr**

A technical knowledge project-based course integrating with Arch Studio 4. Comprehensive technology issues include: site; material; energy; structures; construction; sustainability; environmental factors; building code; life safety. Student's work will include analysis, technical drawings and calculations.

**PR/CR: A minimum grade of C is required unless otherwise indicated.**

Corequisite: EVAR 4010 Arch Studio 4

## **EVAR 4010 Architecture Design Studio 4 9 cr**

The previous terms investigations are further developed and synthesized into a comprehensively designed environment. Architectural propositions seek to clarify specific relations between details and the overall design, through the integration of complex social, cultural, programmatic, theoretical, historical, technological, material and environmental principles, systems and criteria. May not be held with the former EVAR 3690 or ARCH 6410.

**PR/CR: A minimum grade of C is required unless otherwise indicated.**

Prerequisite: EVAR 4004. Corequisite: EVAR 4008 .

**Mutually Exclusive:** ARCH 6410, EVAR 3690