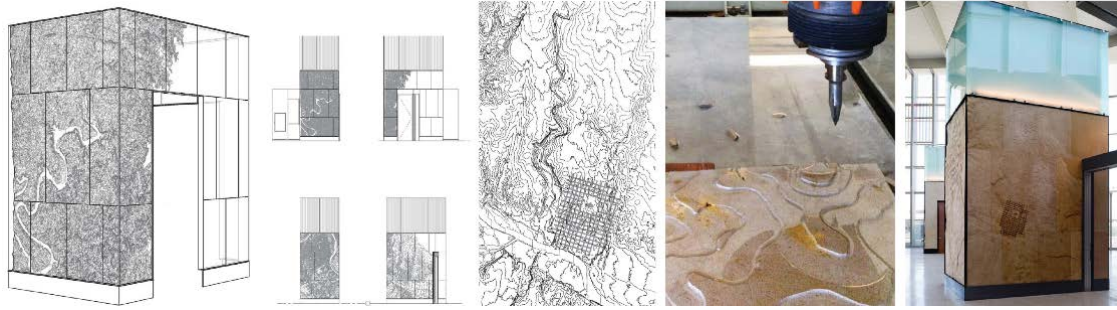


## ARC335 Construction V – Architecture in Detail – Materials and Methods

The University of Texas at Austin, School of Architecture

Fall 2018 M/F 0930-1100

Instructor: Matthew Z Leach, AIA



Stone Towers, ABIA Austin TX. (Page)

### Course Syllabus

#### I. Objectives

**This is a critical thinking course disguised as a technical drawing course. Through the course of the semester you will be asked to engage and demonstrate an understanding of the role of the detail in carrying out a project's design intent.**

**The course has the following learning objectives:**

- I. Improved ability to observe, understand and discuss architectural character and concepts
- II. Improved understanding of how performance criteria impacts envelope design
- III. Learn how to use the appropriate tool for communicating specific qualitative design aspects
- IV. Improved ability to develop and manipulate architectural details

#### II. Admin

Instructor: Matthew Z Leach, AIA

Contact: [matthew.leach@gmail.com](mailto:matthew.leach@gmail.com)

Office Hours and Location: By appointment, available with two day notice.

Class Time: MON/FRI, 0930-1100

Class Location: TBD

#### III. Prerequisites

This course is required for undergraduates in the School of Architecture. It is the final class in the Construction Sequence, featuring advanced concepts, and Construction I-IV must have been successfully completed prior. Taken in conjunction with ARC560T. Please see me or your academic advisor for exceptions.

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### IV. Attendance

This course follows UT's attendance policy found here: <http://catalog.utexas.edu/general-information/academic-policies-and-procedures/attendance/>

Regular attendance is mandatory. Full participation is expected. Three (3) unexcused absences will result in a mandatory full letter grade deduction from your final course evaluation. Students with excessive unexcused absences will be encouraged to drop or withdraw from the course.

The University of Texas at Austin provides students with disabilities the ability to request appropriate academic accommodations. Students with such needs should follow up with the Division of Diversity and Community Engagement, Services for Students with Disabilities.

### V. Evaluation

Student evaluation will be based on the following assignments:

1. <i>In Detail 1-3</i>	45%
2. <i>In Detail 4</i>	25%
3. Field Reports (2)	10%*
4. Readings Discussion	5%
5. Class Participation	15%

Assignment evaluation will be based on the following demonstrable criteria:

Understanding, Thought + Grasp	25%
Process + Rigor	25%
Completeness + Resolution	25%
Engagement + Contribution	25%

### VI. Assignments

#### 1. In Detail 1-3

Explore architecture in detail through analysis, concept, synthesis, and refinement

ID.1: Critical Intersection – Existing building analysis and comparative alternates

ID.2: Exemplary project – Studio project precedent analogue – Critical Analysis and Conceptual Synthesis.

ID.3: Material/Detail Concept – Physical Model

#### 2. In Detail 4

Final project presentation and drawing set.

Presentation that demonstrates an understanding and implementation of a detail concept throughout several coordinated drawing types. Will be fully integrated with final studio project.

ID.4: Material/Detail Concept – Drawing Set Presentation with refined model, detail drawings, and related plan/sections.

#### 3. Field Reports\*

Construction site visit observations shall be submitted for review in the form of 1 page field reports. Reports shall include descriptive sketches along with text.

\*in the case that only one site visit is available, the second field report grade will be scored as an average between the first field report, participation, and reading contribution.

#### 4. Class Participation and Readings Discussion

Reading shall be completed prior to class. Participation and discussion is expected. Evaluation may include in-class quizzes based on readings and related lecture content.

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### **VII. Grade Descriptions**

**A/A- : Excellence**

Work surpasses course and instructor expectations. Work is consistent, inventive, appropriate, thoroughly resolved, conceptually clear and rigorous. Subject of work pursues concepts and techniques above and beyond what is discussed in class. Student demonstrates strong personal growth.

**B+/B/B- : Above average**

Work is thorough, well researched, diligently pursued, and successfully executed. Subject of work pursues ideas and suggestions presented in class and demonstrates resolve of project objectives. Work shows potential for excellence.

**C+/C/C- : Average**

Work meets the minimum requirements. Work content is minimally developed but is appropriate for class objectives. Work is not pursued with dedication nor rigor. Student is not engaged nor responsive to suggestions for improvement. (Note: C- does not meet the minimum grade to be counted toward the student's degree in architecture or interior design.)

**D+/D/D- : Below average**

Basic skills including graphic skills, verbal clarity or logic of presentation are not level-appropriate. Student does not demonstrate the required skill and knowledge base.

**F : Failure**

Minimum objectives are not met. Performance is not acceptable. Note that this grade will be assigned with excessive unexcused absences.

**X : Excused incomplete**

Given only for legitimate reasons of illness or family emergency. Incomplete assignments are not a cause for assigning this grade. An incomplete is assigned after consultation with the Associate

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### **VIII. Text Books (Readings will be provided in PDF format)**

Ford, Edward R. The Architectural Detail (Princeton Architectural Press, 2011)

Boswell, C. Keith Exterior Building Enclosures. Design Composition for Innovative Facades (Wiley, 2013)

### **IX. Bibliography - Supplemental Reading Sources *(subject to change)***

Allen, Edward. Architectural Detailing. (John Wiley & Sons, Inc. 1993.)

Allen, Edward. Fundamentals of Building Construction Materials and Methods.

Architecture Graphic Standards

Ballard bell, Victoria. Materials for Design 2 (Princeton Architectural Press, 2006)

Ballast, David K. Architect's Handbook of Construction Detailing. (BNI Publications, 2000)

Brock, Linda. Designing the Exterior Wall. (Wiley, 2005)

Deplazes, Andrea Constructing Architecture (Birkhauser, 2013)

Evans, Robin Translations from Drawing to Building and Other Essays (MIT Press, 1997)

Frampton, Kenneth. Studies in Tectonic Culture. (MIT Press, 1996)

Lstriburek, Joseph Builders Guide to Hot Humid Climates (Building Science Corporation, 2005)

Sennett, Richard The Craftsman (Yale University Press, 2008)