

## **REAE 5318**

### **Sustainable Development, Summer Intersession 2011**

#### **Tuesday May 17 Universities Center at Dallas**

Introduction---Sustainability and the Built Environment, ERN ; Policy Issues and Investment Pressures, MPB

**Presentations**----Methods for Measuring Sustainability; LEED, Energy Star & the IECC, ERN ; "Trends in Real Estate" – Intro Overview MPB

#### Reading assignments:

- *Green Manhattan; Everywhere Should be More Like New York*, David Owen, New Yorker Magazine. (6 pages); *Emerald City; Shattering the Myths of Sustainability*, Robert Ivy, Architectural Record Magazine. (1 pg); *The Limitless City*, Oliver Gillham, Chap 1: What is Sprawl? (20 pages)
- MB Article in AFIRE Investors Handbook + AFIRE Panel

Assignment: 400 to 500 word explanation and personal conclusions regarding the reading assignments. Due next Class

#### **Thursday May 19 ---Universities Center at Dallas 6p-10p**

##### **Sustainable Cities & Buildings:**

- Discussion of reading assignments, MPB & ERN
- Sustainable Architectural Design; Responding to Nature, ERN
- Frank Lloyd Wright and Designing With Nature, + Adaptive Re-Use Case Studies + Saudi Sustainable Science City --- Sustainable Advantage, MPB

#### Reading assignment:

- *The Limitless City*, Oliver Gillham, Chapter 12: Changing Development Patterns (20 pages)

Assignment: 400 to 500 word explanation and conclusions on readings; Due next Class

#### **Saturday May 21 ---Universities Center at Dallas 9p-2p**

##### **Sustainable Design Best Practices**

- Discussion of reading assignment, MPB & ERN
- Design Methods & Techniques that Encourage Transportation Alternatives, ERN

##### **Case Studies of Sustainable Developments**

- ERN ---*Howard St, San Francisco; Harold Way Apartments, Hollywood CA. The Original TOD: Terminal City, New York*,
- MB ---*Masterplanning for Sustainability---KA-CARE Science City Riyadh; Oso Blanco Puerto Rico Science City; Density as Sustainable Design Field Trip*
- 1p---Beck---Engineering Perspective
- 2p---Good Fulton Farrel---Commercial RE Perspective
- 3p – HKS ---Institutional / Corporate viewpoints

Assignment: 400 to 500 word explanation and personal conclusions regarding the Case Study presentations. Due next Class

**Tuesday May 24 Universities Center at Dallas (TOD Jupiter Rd City of Garland)**  
**MB + ERN Introduce Sustainable Case Study Studio Team Project**

Illustrative Examples --(MB) Case Studios from UTA + Columbia --Review possible site master plan identifying circulation and building footprints (ERN) and preliminary Pro Forma Formats

Possible Briefing by City of Garland planning staff-

- Aerial view of site--Discuss adjacent site features
- Enumerate sustainable design goals
- Discuss financial goals

Establish Teams for Sustainable Design Project

- Assign Team project managers
- Assign roles for Team members—1.Market Analysis; 2.Finance; 3. Design; 4.Implementation

MB + ERN: Meet with groups to discuss assignment and identify problematic conditions that may be encountered in achieving design & financial goals. Establish Studio Schedule

**Thursday May 26 Universities Center Dallas 6p-10p**

Sustainable Design Project Studio Reviews:

- Meet in groups --Discuss Concepts With Design Critiques
- Review Market + Design + Financial analysis.
- Outline final presentation

**Saturday 28 May Universities Center Dallas 8a-6p**

**Morning Lecture** --- Jon Shapiro, President Texas Sustainability Institute

- **Afternoon**---Alternate Field Trip and/or Teams meet with ERN

**Tuesday May 31--- Universities Center at Dallas 6p-10p**

First Two Hours--Design + Concept + Pro Forma Reviews ---Value Engineering each Team Solution

Next Hour --Revise Sustainable Design Project Presentation esp. Conclusions

Final Hour---Presentation of Group Projects – 15 min max each team

- Discussion of Best Solutions/ Practices
- Class Celebration

Notes

MB Slide Lectures/ Projects

- *Repositioning* ---Crystal City+ Pitney Bowes + Coney Island + Catfish Baton Rouge
- *Adaptive Re-Use*---Union Station + Louisville Galleria+ Arcade Sq
- *City Revitalization*—Garland ; New Haven
- *Sustainable Design* --Codex competition; Transbay San Francisco