Spring 2015-A Path to Zero Net Energy: A Hands-on Approach

Time: T/R 2:10-4:00
Location: West Village 1720 Jade St, room DAC 123
Course #: TTP 289 A-004
CRN #: 51400
Format: 3 units, graded
Prerequisites: None, must be a graduate student, or undergraduate with permission

Course Description

Through lectures, field trips, and a hands-on project, students will understand the basic concept behind designing zero net energy buildings, transportation, and communities. This course complements the series of Energy Efficiency courses currently offered by the UC Davis Energy Efficiency Center.

A brief overview of energy use in the US and the world will be presented as well as current trends and innovations for Zero Net Energy in the commercial, residential, and transportation sectors. Students will engage in weekly participatory labs and lectures, listen to guest speakers, and make field trips, designed to promote a further depth of understanding of particular energy efficiency measures.

Multidisciplinary student focus group teams will be formed, working for an actual client. For previous projects see (http://piet.ucdavis.edu/?page_id=482). Teams will present their findings and recommendations to a review panel for feedback.

Format:

3 units, graded, meets for 2 hours twice weekly

Prerequisite: None, must be a graduate student in good standing or undergraduate with permission.

Course materials: PowerPoint presentations, handouts, problem sets, and additional reading materials will be available on Smartsite.
Grading:

- Participation: 20%
- Labs: 25%
- Paper review/Bibliography: 20%
- Focus Group Projects: 35%