



# BUILDING ENERGY EFFICIENCY RESEARCH & TECHNOLOGY A JOURNAL REVIEW

TTP 289A-003, CRN #42059  
Friday 3:10-4:00 PM Winter 2016  
West Village 115 Sage St STE 100 RM 1104 (WCEC)  
Dr. Vinod Narayanan and Jonathan Woolley

## **Overview:**

This graduate course is a broad scope review of recent literature and technology innovation surrounding energy efficiency in the built environment. Students will discuss one significant academic publication each week. Together the class will assemble an annotated review of related literature on each topic.

The course is interdisciplinary, and students are encouraged to consider the implications of each energy efficiency concept from a variety of perspectives (eg: technical, economic, political, cultural).

## **Topics:**

May include: Zero net energy, 'smart' building controls, passive design strategies, energy use behavior, plug load management, natural ventilation, role of energy efficiency standards, human health and wellness in buildings. Students are encouraged to introduce their own topic of interest.

## **Each week:**

- One student presents paper review and facilitates discussion
- Each student reads one related paper
- Group builds annotated bibliography on topic

## **Final Deliverable:**

- Individual synthesis paper on one topic from the quarter