MSRED 6330: BUILDING PERFORMANCE AND BENCHMARKING  
Spring 2015  
Tuesdays, 6:30-9:00pm

Instructors  
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Course Objectives  
This course explores methods used to verify and track building performance in order to reduce operating costs and make financing possible for energy efficiency and other capital improvements. Students will learn the appropriate metrics as well as technologies and methodologies used to measure and analyze energy and water consumption data, verify occupant comfort, and compare buildings against regional and national building databases. Students will learn how to analyze this data in order to make cost-effective investment decisions and also how benchmarking results can be used to help finance operational changes or building improvements. Finally, students will become aware of public policy changes around the country that increasingly incentivize and in some cases require energy benchmarking and public reporting. The course will include small group projects to track and analyze the performance of actual projects in real time, working jointly with students in the M.Arch and MSRED programs.

Learning Outcomes  
After completing this course, students will be able to:

1. Understand the requirements and costs associated with building performance and energy benchmarking data collection efforts
2. Assess and recommend specific benchmarking and energy tracking programs
3. Utilize benchmarking and building performance data to develop a financial analysis of the present value of projected cost savings over time
4. Discuss current and proposed public policies that might enhance or require benchmarking and energy reporting activities for existing building owners.

Other Course Information  
Open to: All MSRED candidates; M.Arch and B.Arch degree candidates who have completed ATCS 3030/6130: Building, Climate, Comfort. Others by permission of the instructor.