TTP 289A-007 D-Lab II-Energy and Development: Designing for the Market-Spring 2013

Units: 3  
Course # TTP 289A-007  
CRN #: 60909  
Location: 70 Social Sciences  
Time: 2:10-4:00, T/R  
Prerequisite: None

Meeting times: Tuesday, Thursday 10:00-11:50. Open lab times and additional 1 hour per week meeting focus groups TBA

Office hours: Monday 10:00-11:00 and by appointment

Course Description
How do you design for a developing country context? What are appropriate technologies? Are energy issues in developing countries technological, business-related, social, or political? Who is the customer?

D-Lab II, Designing for the Market, is a studio-style class focusing on design approaches to overcome the barriers for the dissemination of energy technologies appropriate for the developing world. Student teams work with local partners and mentors, to design, prototype, and test scalable solutions for real world energy problems for their client communities. Collaboration with UCD faculty mentors, private sector experts, non-governmental organizations, and partner communities will serve to provide student teams with context and direction.

Practical labs, case studies, and guest speakers will focus on user-centered and market-based design approaches. Students will form design focus groups to design, prototype, and test scalable solutions for their clients. Deliverables include a working prototype, 2 design reviews, and design notebook as a deliverable. D-lab II is the second of a 2-part series

Readings:
Readings will be posted on the SMART site or as links in syllabus

Course Website: I use the course’s Smartsite to post all course information, including reading, assignments, and powerpoints. Look under resources.

All assignments will be turned in as hard copies to the class period they are due. Late work will not be accepted without prior arrangements.
Attendance policy
Since a significant portion of the activities occur in class attendance is mandatory. Only one unexcused absence is allowed. An unexcused absence is one without prior arrangements or valid explanation/documentation. Grades will be lowered for each absence. If taking the course pass/fail 3 unexcused absences will result in a fail.

Grading
Attendance and punctuality are mandatory (you are only allowed 1 unexcused absence), furthermore, it is a class where your work is has the potential to impact the lives of people around the world and we expect an appropriate level of commitment.

Class participation, attendance: 25%
Homework assignments, labs: 25%
Design reviews: 20%
Design Notebook, Video: 30%

Lab write-ups
To receive full credit labs are to be written up and turned in (hard copy) 1 week after the lab.

Laptops and Smartphones
There will be no use of phones or laptops in class without prior approval from the instructor