Implementing Hybrid Teaching Models: Methods and Resources

Engineering Teaching Workshop 2013
January 15th
Spahr Classroom, Eaton Hall

Preface: The School of Engineering was formally introduced to hybrid teaching methods, where much lecture material is presented on-line so that in-class exercises focus on group problem solving, at the 2012 Engineering Teaching Workshop. At this workshop, Dr. Robert Beichner presented the research and in-practice impact of his signature hybrid teaching method, Scale-Up, on student retention and learning. Since then, faculty from each department have engaged in discussions and site-visits to strategize on how we should design the 6 new classrooms in LEEP2 to best serve our students. The group, in consultation with peers in their departments, strongly feels that facilities that promote hybrid teaching methods should be implemented.

The faculty group also recognizes that successful teaching in these new facilities will best occur with guidance and new resources.

The purpose of this workshop is to enable interested faculty to incorporate hybrid teaching methods into their courses over the next 4 semesters, as the LEEP2 facility will be available in Fall 2015. The workshop is divided into two sessions:

1. Hybrid Teaching Methods and Resources
2. Break out for Department Planning

AGENDA

8:15 Welcome Dr. Stan Rolfe, Interim Dean
8:20 Introduction Dr. Glenn Prescott, Chair EECS
8:30 Session 1: Hybrid teaching Methods and Resources
   A. 8:30 Motivation for Hybrid Teaching: Scale Up
      Dr. Robert Beichner, NC State
   B. 9:05 Technology Options for Implementation
      Dr. Susan Williams, CPE
   C. 9:40 Resources from the Center for On-Line and Distance Learning
      Julie Loats, Director of CODL
   D. 10:15 Variations on Hybrid Class Structure
      Dr. Dan Bernstein, CTE

10:45 Break

11:00 Session 2: Break out for Department Planning

Please team up with members of your department to answer the following questions (~10 minutes for each question):

Question 1: What are key courses in your curriculum that should implement hybrid teaching methods first?

Question 2: How can you best coordinate curricular content between multiple instructors of the same course?

Question 3: If you were to stage development of hybrid teaching methods in key courses over the next 4 semesters, what goals would you make for each semester?

11:30 Re-Group and Report
12:00 Lunch