Active Learning for Engineering Education  
GRDSCH 630B  
Spring 2002  
Class Schedule

1. April 3: Introduction  
   • Class introductions  
   • Discussion of active learning definition  
   • Discussion of syllabi: Goals vs. objectives  

Assignment: Post to E-Post  
Readings: Inclusive teaching web site, CIDR http://depts.washington.edu/cidrweb/inclusive/  
How People Learn: Bridging Research and Practice, Ch. 2, National Research Council

2. April 10: Student Learning  
   • ABET Learning Outcomes  
   • Data on learning: How can research on engineering students help in designing teaching activities?

Guest Speakers: Cindy Atman, Director, CELT, Jennifer Turns, Asst. Prof, Technical Communication  
Assignment: Take learning style inventory on web and email scores to becky@ee.washington.edu. We will look at the aggregate class information.  
http://www2.ncsu.edu/unity/lockers/users/f/felder/public/ILSdir/ilsweb.html  
Readings: Mentoring literature  
“Descriptions of the Learning Styles”  
http://www2.ncsu.edu/unity/lockers/users/f/felder/public/ILSdir/styles.htm  
”Reaching the Second Tier: Learning and Teaching Styles in College Science Education”  
http://www2.ncsu.edu/unity/lockers/users/f/felder/public/Papers/Secondtier.html

3. April 17: Talking about Teaching  
   • What can we learn from faculty? What questions can we ask as graduate students about teaching?  
   • Create a list of questions to get faculty to describe how they teach.

Assignment: Ask a faculty member whose teaching you admire the questions your group designed.  
Readings: web links, papers on AL

4. April 24: Active Learning  
   • Report on Faculty Q & As.  
   • Active learning techniques: Evidence for, experience doing.
Guest Speaker: Angela Linse, Faculty Consultant, CELT

Readings: Catalyst web site: http://catalyst.washington.edu/ Focus on the teaching/integrating technology pages

5. May 1: Using Technology
   Meet at CTLT Center, 2nd Floor, Odegaard Undergraduate Library
   • Technology in teaching: not just classroom uses
   Guest Speaker: Mark Farrelly, Outreach and Special Projects Coordinator, CTLT
   Readings: web links, papers on CAT

6. May 8: Classroom Assessment Techniques
   • The connection between assessment tools and learning tools
   Guest Speaker: Wayne Jacobson, Associate Director, CIDR
   Reading: Group processes, cooperative learning, Johnson, Johson & Smith

7. May 15: Group Learning
   • How to set up groups so they work.
   • How to know when group work is appropriate.
   • Activity: Talk about group experiences, how could the TA/professor have made things better?
   • Course case study: CEE 220, EE 215
   Assignment: Think of how the techniques discussed in class could apply in your own field

8. May 22: Project planning
   • Build teams and ideas for activities/reports.

9. May 29
   • TA Reports/Activities

10. June 5
    • TA Reports/Activities
    • Wrap-up: What we have learned.