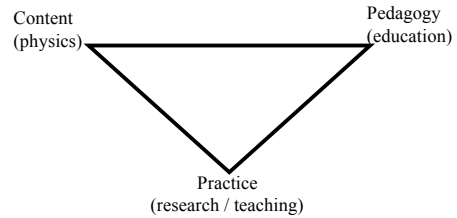


## Physics 4810 / 7810 Introductions . . .

Day 1: Fa2008  
Structure of the Class  
Expectations  
Opportunities  
Getting Started



## What is this class about?



## What is . . . (how do you define)

- Teaching ?
- Learning ?
- Education ?

## Why learn physics?

## What are you doing here?

## What will this class do for you?

## Structure

- Tues: readings on Teaching and Learning
  - summary paragraph for each article
  - 3 points / questions
  - Posted on Online discussion (Monday 5p)
  - 1 response (Tues noon)
- Thurs: Mechanics Content
  - Read chapter (1 paragraph summary)
  - Do 3 HW problems (solve -- then *start* (analysis) )
- Fieldwork:
  - Opportunity to synthesize Tues & Thurs
  - Conduct research / work for
- Final Project

## Expectations

- **Student responsibilities:**
  - active participation (in class and fieldwork)
  - weekly homeworks (readings, reflections, physics problems, and fieldnotes)
  - final project (project of your own design)
- **My role,**
  - facilitate your engagement with the material,
  - provide resources for you,
  - feedback and direction.Please make use of my office hours

## Quick Poll on Field Sites

### University

- Phys 1110 Tutorials (Mon 5p pre and Thurs)
- Phys 2010 (variable; labs)
- Phys 2170 (modern phys; support lectures)
- Phys 3310 (Tutorials Fridays from 3-4pm and the help sessions 3:30-5pm Mondays and Tuesdays)

### K12

- PISEC (CASA: variable; 3-6p; 1x / week (Mon or Wed); San Diego (5-7p Tues or Wed)
- K-6: Spangler Elementary (Longmont)
- H.S.: Boulder High, Fairview & Boulder Charter Prep

## Duties this week!

- Teaching Statement
- Review of Intro / Chapt 1 of trad'l text
- Conceptual Survey

## Down the Rabbit Hole . . .



State of affairs in  
Physics Education



Psychological games  
- beginning theory