

## Pedagogical Reforms Implemented

The class involved course policies that get the students to class, having read in advance; get them to do a reasonable amount of homework, with attention to conceptual understanding, and a lot of time in lab! This is a long story, much of which is explained in the course materials, available below.

The newest version of the class is not yet available on line. It will be available on line to PTEC members as soon as security issues are ironed out. You can visit the site as a guest and see the structure students see at <http://physinfo.uark.edu/upii>. Click on log in as guest to explore, since you probably don't want to have to do any reading homework, or take a pre-lab quiz!

For the details of prior implementations, or to request any version on CD, please see <http://educationalengineering.uark.edu/upii-root.htm>. At this site, you will find the two versions of the course discussed below,

The *Restricted Coverage* implementation excludes from coverage many topics that are presented in traditional introductory text, but often not actually covered by real classes. The coverage was restricted so that all difficult concepts could be covered in the twice-a-week lecture and receive support in lab.

The *Full Coverage* implementation includes all coverage presented in traditional introductory text. Not all covered topics can be supported in lab; the students have to read. The Full Coverage Version has greatly improved support of the use of calculus in physics, including specific support in the laboratory.