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Preparing students for experimental research through instructional labs

HEATHER LEWANDOWSKI, University of Colorado

Preparing undergraduate physics majors for future careers in experimental science is one of the main goals of our current physics education system. At the University of Colorado, we have been working to transform our upper-division laboratory courses to better prepare students for future undergraduate, industrial, or graduate experimental work. Through this process, we have developed learning goals, curricular materials, and assessments for two upper-division lab courses. The transformation process and measured outcomes will be presented.