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**Developing an Advanced Lab course from scratch**

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A few years ago the Alpha group in APS organized faculty with interests in advanced lab courses in physics. At the University of Wyoming, we re-launched an advanced lab course after doing more than 15 years without one. Our majors had to take an electronic course in the Electrical Engineering department to get familiar with any kind of electronic equipment. Now we are in the fourth teaching session of the advanced Modern Physics lab and we will expand the course into a two-term course beginning spring 2013. Forty-five majors have gone through our labs, We developed an oral exam tradition, which is now beginning to lend our department upper level outcome assessment credibility for campus wide assessment.