PHYS 410 – Pre-Research Physics Experience
Instructor: Bryan Boggs
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General goal of course: To enable physics students, early in their undergraduate careers, to engage in meaningful “hands-on” scientific research and discovery by providing them with necessary basic laboratory knowledge and skills.

Upon successful completion on this course, students may subsequently engage in physics research in the Advanced Projects Lab (APL) or other research labs at the UO. The course instructor (and additional UO physics faculty) may attempt to facilitate these undergraduate research positions.

Students will meet and work in the APL (room 12 Will) Monday-Friday from 9am – 4pm (lunch from noon-1pm) the first 2 weeks of summer term. Students will work in teams of two when possible.

- Students are required to work on:
  1) The APL’s General Lab Equipment Obstacle Course.
  2) The APL’s Scientific Python Primer.

- Students may also work on:
  3) The APL’s Optics Obstacle Course.
  4) The APL’s Electronics Obstacle Course.

Learning Outcomes: Knowledge and application of basic laboratory knowledge and skills. Initial or improved ability to perform semi-independent work.

Grading Policy: This class is offered as pass/no pass. A student will receive a pass when the required in-lab hours are satisfied AND when much (if not all) of the required work (see above) is successfully accomplished.

Notes: You may think of this course as a gateway into doing real physics research.

No music in the lab. Keep food and drink away from equipment.