

Physics Toolbox Sensor Suite Lab Activities & Lab Reports

Students will use the freely available *Physics Toolbox Sensor Suite* (a more advanced Pro version of Physics Toolbox is available for a price but it is not necessary for this project) to conduct four (4) equally weighted, lab activities of their choice (but all four topics must be pre-approved by instructor) and turn in lab reports following guidelines provided in the course syllabus. Each activity must employ a different sensor, not the same sensor in a different fashion. Students will need access to a smart phone or tablet to run *Physics Toolbox Sensor Suite*. Please borrow one from a friend if necessary.) You may download software for iOS and Android devices from the usual locations.

Review all materials on the course web page that serve as an introduction to *Physics Toolbox Sensor Suite*. Identify four different sensors that will work with your particular apparatus. Develop four ideas for use as labs and clear your ideas with your course instructor before beginning.

Conduct each approved lab and write up a detailed lab report following the guidelines for labs provided in the course syllabus. See the homework readings for 8/27/2020.

You will note later in the semester that one of these labs must be described and presented with a PowerPoint presentation to the entire class over Zoom. You might want to look ahead at this project.

Consult regularly with your course instructor as needed.