

Abstract Submitted
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Introductory Physics Laboratories for Life Scientists – Hands on Physics of Complex Systems WOLFGANG LOSERT, KIM MOORE, University of Maryland — We have developed a set of laboratories and hands on activities to accompany a new two-semester interdisciplinary physics course that has been successfully implemented as the required physics course for premeds at the University of Maryland. The laboratories include significant content on physics relevant to cellular scales, from chemical interactions to random motion and charge screening in fluids. We also introduce the students to research-grade equipment and modern physics analysis tools in contexts relevant to biology, while maintaining the pedagogically valuable open-ended laboratory structure of reformed laboratories.

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