

Selected Laboratory Handouts: “Physics with Computers” by Appel, K.; Gastineau, J.; Bakken, C.; and Vernier, D., 3<sup>rd</sup> ed. (Provided by Professor); PhET Simulations

## Lab schedule

PHY2053L (Mondays, 6:30 pm – 8:20 pm) South Campus 66/108

Date	Lab Report #	Exp. #	Topic
January 9			Introduction, Safety, Syllabus.
<b>January 16</b>			<b>Dr. Martin L. King, Jr. Birthday (NO CLASS)</b>
January 23	1	PhET	Vernier Graphing Tool. <a href="https://www.vernier.com/product/graphical-analysis-4/">https://www.vernier.com/product/graphical-analysis-4/</a> Measurements, Graphing.
January 30	2	1	Graph Matching (HO)
February 6	3	PhET	Vector Addition. <a href="https://phet.colorado.edu/sims/html/vector-addition/latest/vector-addition_en.html">https://phet.colorado.edu/sims/html/vector-addition/latest/vector-addition_en.html</a>
February 13	4	8A	Projectile Motion: Photogate (HO)
February 20	5	PhET	Universal Gravitational Law. <a href="https://phet.colorado.edu/sims/html/gravity-force-lab-basics/latest/gravity-force-lab-basics_en.html">https://phet.colorado.edu/sims/html/gravity-force-lab-basics/latest/gravity-force-lab-basics_en.html</a>
February 27	6	16	Energy of a tossed ball (HO)
<b>March 6</b>			<b>SPRING BREAK (NO CLASS)</b>
March 13	7	12	Static and Kinetic Friction (HO)
March 20	8	4	Determining g on an incline (HO)
March 27	9	18	Momentum, Energy & Collisions (HO)
April 3	10	PhET	Rotational Motion (“Ladybug Revolution”)
April 10	11	PhET	Balancing Act. <a href="https://phet.colorado.edu/sims/html/balancing-act/latest/balancing-act_en.html">https://phet.colorado.edu/sims/html/balancing-act/latest/balancing-act_en.html</a>
April 17	12	PhET	Under Pressure. <a href="https://phet.colorado.edu/sims/html/under-pressure/latest/under-pressure_en.html">https://phet.colorado.edu/sims/html/under-pressure/latest/under-pressure_en.html</a>
April 24	13	33	Speed of Sound (HO)
May 1	14		<b>FINAL EXAM (6:30 – 8:20 PM)</b>