

		angle, and the speed by a second method of shooting it horizontally and measuring the range.
Moment of Inertia	3	Measure the varying moment of inertia of two point masses and plot their moment of inertia as a function of their distance from the center of rotation. Describe the linear shape of the graphed function and relate it to the formula for moment of inertia.
Archimedes' Principle	3	Use Archimedes' principle to find the specific gravity of various solids and liquids; measure the masses of the substances in air and in water to calculate buoyancy and specific gravity
Young's Modulus	3	Determine the Young's modulus for a vertical steel wire by adding masses to the lower end and measuring its elongation.
Total:		54
Total Lab Hours In Section I Class Hours:		54

1. (cont'd) STUDENT LEARNING OUTCOME (SLO):

<p>Outcome - The student will: (Describe the major outcomes that a successful student will gain from the class for use in his/her life. Use higher order Bloom's taxonomy verbs.)</p>	<p>1. Identify the various forces acting on an object and analyze the resulting motion of the object using the laws of mechanics and gravity and appropriate mathematical techniques.</p> <p>2. Acquire, analyze and graph scientific data collected with instruments during laboratory experiences</p>
<p>Assessment - as measured by the following method: (Please indicate the criteria and rating scale by which the assessment will be evaluated.)</p>	<p>1. Certain questions on the final exam specifically relate to certain SLOs. These will be evaluated and the statistics compiled to indicate the measure of success of the SLO.</p> <p>2. Graph and data analysis will be assessed by evaluating Lab reports and a lab Final Exam.</p>
<p>ILO - which Institutional Learning Outcome(s) (ILO) does this SLO support? (See College Catalog p. 10.)</p>	<p>Problem solving Quantitative reasoning Written and oral communication</p>