

Boston Campus
8 Asburton Place
Boston, MA 02108-2770
Phone: (617) 573 8000
www.suffolk.edu



Madrid Campus
Calle de la Viña, 3
28003 Madrid (Spain)
Tel: (34) 915 335 935
www.suffolk.es

PHYS L151 – UNIVERSITY PHYSICS I LAB (1 credit)

Laboratory Contents

Laboratory sessions to show the fundamental principles of physics learned in PHYS 151 will be performed by the students.

Excel software and scientific calculators are used for error analysis in this laboratory course. Computers are used for data acquisition.

EXPERIMENT	WEEK
Measurements and Errors	2
Propagation of errors	3
Minimum Chi-Squared Data Analysis	4
Lab notebooks to be turned in	4
Vectors	5
Measurement of "g" Using a Frictionless Inclined Plane	6
Conservation of momentum	7
Friction. Uniform motion Along an Inclined Plane	8
Lab notebooks to be turn in	9
Perfectly Inelastic Collisions	10
Hooke's Law and Simple Harmonic Motion and the Simple Pendulum	11
Lab notebooks to be turn in	12

Each experiment must be handed in the week that follows its execution.

Evaluation

Attendance is mandatory. All the experiments will be graded. The one with the lowest grade will be eliminated and the average of the remaining will be the final grade for this laboratory course.