

GENERAL PHYSICS WITH CALCULUS I - PHY2048L

TERM 20232 – SPRING 2023, SESSION 1

January 11 – April 26, 2023

11:00 AM – 1:00 PM

Building 57, Room 224

Required Lab Manual and Notebook:

1. **Cengage Unlimited eBooks:** 1-semester access (4 months), ISBN: 9780357693339
2. **Blue flexible cover, 50-page lab notebook:** E-LIRPE-048-LGR-A available through book factory at <http://acct107430.shop.netsuite.com/s.nl/c.ACCT107430/it.A/id.6802/.f?sc=23&category=278>

LAB SCHEDULE	
WEDNESDAYS	TITLE OF EXPERIMENT
January 11	<i>Introduction, Safety, and Math for Physics [Lab Math Primer]</i> ^H
January 18	<i>Graphical Representation of Data</i> ^H Experimental Uncertainty (Error) and Data Analysis*
January 25	Measurement Instruments (Mass, Volume, and Density) *
February 1	Uniformly Accelerated Motion: Measurement of g *
February 8	<i>Vector Primer</i> ^H & The Addition and Resolution of Vectors: The Force Table*
February 15	<i>Newton's Second Law</i> ^H
February 22	<i>Uniform Circular Motion – Centripetal Force</i> ^H
March 1	<i>Energy Transformations in Multiple Collisions</i> ^H
March 8	SPRING BREAK, NO LAB!
March 15	EXAM 1
March 22	Projectile Motion: The Ballistic Pendulum (Parts: A & B) *
March 29	Torques, Equilibrium, and Center of Gravity*
April 5	<i>Rotational Inertia Demonstrator Lab</i> ^H
April 12	Simple Harmonic Motion*
April 19	<i>Standing Waves in a String</i> ^H
April 26	EXAM 2