

PHYS 1501L - Fundamentals of Physics Laboratory 1

Fall 2026 Syllabus, Section 03, CRN 40379,

Credit hours: 1

Instructor

Ashley Skalsky

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Public Instructor Information

Instructor Title: Part-Time Faculty

Instructor Professional Qualifications:

M.S., Medical Physics, Cleveland State University, 2021

M.S., Astronomy, Swinburne University of Technology, 2011

B.S., Physics & Astronomy, Youngstown State University, 2009

Instructor Office Location: Ward Beecher 2010

Instructor Office Phone: 330-941-3616

Course Description

1501L. Fundamentals of Physics Laboratory 1. Experimental work designed to supplement the PHYS 1501, PHYS 1502 sequence. Three hours per week. Prereq. or concurrent: PHYS 1501. 1 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Physics 1 Lab Manual	Clymer	9781645659426

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Day	Date	Reading(s)	Proposed Topic	Due/To Prepare for Class
Wed	8/26		Introduction and First Day Lecture	
Wed	9/2	Experiment 1	Uncertainty, Measurements, Analysis	Read Lab Manual: Experiment 1 Before Class Read and Review the "UNCERTAINTY PACKET" Experiment 1 Worksheets 1-5 Due by End of Class
Wed	9/9	Experiment 2	Free-Fall (Method #1)	Experiment 1 Worksheets 6-7 Due at Beginning of Class Read Lab Manual: Experiment 2 Before Class Pre-lab: Experiment 2 Due Before Class
Wed	9/16	Experiment 3	Free-Fall (Method #2)	Group Report: Experiment 2 Due at Beginning of Class Read Lab Manual: Experiment 3 Before Class Pre-lab: Experiment 3 Due Before Class

Wed	9/23	Experiment 4	Two-Dimensional Motion	Read Lab Manual: Experiment 4 Before Class Pre-lab: Experiment 4 Due Before Class
Wed	9/30	Experiment 5	Forces	Individual Report: Experiment 3 Due at Beginning of Class Group Report: Experiment 4 Due at Beginning of Class Read Lab Manual: Experiment 5 Before Class Pre-lab: Experiment 5 Due Before Class
Wed	10/7	Experiment 6	Friction	Group Packet: Experiment 5 Due at Beginning of Class Read Lab Manual: Experiment 6 Before Class Pre-lab: Experiment 6 Due Before Class
Wed	10/14	Experiment 7	Uniform Circular Motion	Group Report: Experiment 6 Due at Beginning of Class Read Lab Manual: Experiment 7 Before Class Pre-lab: Experiment 7 Due Before Class
Wed	10/21	Experiment 8	Inelastic Collisions	Group Report: Experiment 7 Due at Beginning of Class Read Lab Manual: Experiment 8 Before Class Pre-lab: Experiment 8 Due Before Class
Wed	10/28	Experiment 9	Rotational Inertia	Group Report: Experiment 8 Due at Beginning of Class Read Lab Manual: Experiment 9 Before Class Pre-lab: Experiment 9 Due Before Class
Wed	11/4	Experiment 10	Oscillations/Simple Harmonic Motion	Group Packet: Experiment 9 Due at Beginning of Class Read Lab Manual: Experiment 10 Before Class Pre-lab: Experiment 10 Due Before Class
Wed	11/11	No Class		
Wed	11/18	Experiment 11	Standing Waves on a String	Individual Report: Experiment 10 Due at Beginning of Class Read Lab Manual: Experiment 11 Before Class Pre-lab: Experiment 11 Due Before Class
Wed	11/25	No Class		
Wed	12/2	Experiment 12	Standing Waves in Air	Group Report: Experiment 11 Due at Beginning of Class Read Lab Manual: Experiment 12 Before Class Pre-lab: Experiment 12 Due Before Class Group Packet: Experiment 12 Due at End of Class
Wed	12/9	No Class		

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.