

PHYS 1502L - Fundamentals of Physics Laboratory 2

Fall 2026 Syllabus, Section 02, CRN 42429,

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

1502L. Fundamentals of Physics Laboratory 2. Experimental work designed to supplement the PHYS 1501, PHYS 1502 sequence. Three hours per week. Prereq. or concurrent: PHYS 1502. 1 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Physics 2 Lab Manual	Clymer	9781645659433

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
Mon	8/24		Introduction and First Day Lecture	Read and Review the "UNCERTAINTY PACKET"
Mon	8/31	Experiment 1	Nominal Resistance and the Multimeter	Uncertainty Pre-lab Due at Beginning of Class Read Lab Manual: Experiment 1 Before Class Group Packet: Experiment 1 Due at End of Class
Mon	9/7	No Class		
Mon	9/14	Experiment 2	Coulomb's Law	Read Lab Manual: Experiment 2 Before Class Pre-lab: Experiment 2 Due Before Class
Mon	9/21	Experiment 3	Permittivity of Free Space	Individual Formal Report: Experiment 2 Due at Beginning of Class Read Lab Manual: Experiment 3 Before Class Pre-lab: Experiment 3 Due Before Class

Mon	9/28	Experiment 4	The Oscilloscope	Read Lab Manual: Experiment 4 Before Class Pre-lab: Experiment 4 Due Before Class Group Packet: Experiment 4 Due at End of Class
Mon	10/5	Experiment 5	Circuits and Circuit Elements	Individual Formal Report: Experiment 3 Due at Beginning of Class Read Lab Manual: Experiment 5 Before Class Pre-lab: Experiment 5 Due Before Class Group Packet: Experiment 5 Due at End of Class
Mon	10/12	Experiment 6	Resistor and Capacitor Networks	Read Lab Manual: Experiment 6 Before Class Pre-lab: Experiment 6 Due Before Class Group Packet: Experiment 6 Due at End of Class
Mon	10/19	Experiment 7	Magnetic Fields	Read Lab Manual: Experiment 7 Before Class Pre-lab: Experiment 7 Due Before Class
Mon	10/26	Experiment 8	Permeability of Free Space	Individual Formal Report: Experiment 7 Due at Beginning of Class Read Lab Manual: Experiment 8 Before Class Pre-lab: Experiment 8 Due Before Class
Mon	11/2	Experiment 9	Optics (The Basics)	Read Lab Manual: Experiment 9 Before Class Pre-lab: Experiment 9 Due Before Class Group Packet: Experiment 9 Due at End of Class
Mon	11/9	Experiment 10	Optics (Image Formation)	Individual Formal Report: Experiment 8 Due at Beginning of Class Read Lab Manual: Experiment 10 Before Class Pre-lab: Experiment 10 Due Before Class
Mon	11/16	Experiment 11	Interference and Diffraction	Group Packet: Experiment 10 Due at Beginning of Class Read Lab Manual: Experiment 11 Before Class Pre-lab: Experiment 11 Due Before Class Group Packet: Experiment 11 Due at End of Class
Mon	11/23	Experiment 12	Optical Spectra	Read Lab Manual: Experiment 12 Before Class Pre-lab: Experiment 12 Due Before Class Group Packet: Experiment 12 Due at End of Class
Mon	11/30	Make-Ups	Attendance is Required if Any Labs Were Missed	
Mon	12/7	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.