

PHYS 2610L - General Physics Laboratory 1

Fall 2026 Syllabus, Section 08, CRN 41682,

Credit hours: 1

Instructor

Emeka Onyishi

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Public Instructor Information

Instructor Title: Graduate Teaching Assistant

Instructor Professional Qualifications:

Ph.D Candidate, Material Science and Engineering, Youngstown State University

M.S., Electrical Engineering, Youngstown State University, 2020

B.S., Electrical Engineering, Enugu State University of Science and Technology, 2015

Instructor Office Location: Moser Hall 3281

Instructor Office Phone:

Course Description

2610L. General Physics laboratory 1. Experimental work designed to supplement the PHYS 2610, 2611 sequence. Three hours per week. Prereq. or concurrent: PHYS 2610 or PHYS 2601 for PHYS 2610L. 1 s.h.

Course Readings

Group	Title	Author	ISBN
Required	The Physics Lab Manual I: Experiments to Accompany Physics 1501L/2610L at Youngstown State University	W. Cochran revised by J. Clymer	978-1-64565-704-0

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
Thu	8/27	Syllabus Introductory Material in the Lab Manual Experiment 1	Introduction to Physics Lab Measurement Precision, Error, Uncertainty Calculations	Due 8/31 at 5pm: Experiment 1 Worksheet Part I Room 2010 Experiment 1 Worksheet Part II Room 2010 Experiment 1 Worksheet Part III Room 2010 Experiment 1 Worksheet: Part IV Room 2010 Experiment 1 Worksheet: Part VI Room 2010 Experiment 1 Worksheet: Part V Room 2010 Experiment 1 Worksheet Part VII Room 2010
Thu	9/3	LABOR DAY: NO CLASS		

Thu	9/10	Experiment 2	Free-Fall and the Acceleration Due to Gravity	Due 9/14 at 2pm: Experiment 2 Prelab
Thu	9/17	Experiment 3	Empirical Relations: Free-Fall	Due 9/21 at 2pm: Experiment 3 PreLab Experiment 2 Worksheet
Thu	9/24	Experiment 4	Kinematics in Two Dimensions: Projectiles	Due 9/28 at 2pm: Experiment 4 Prelab Experiment 3 Individual Lab Report
Thu	10/1	Experiment 5	Vector Forces and Static Equilibrium	Due 10/5 at 2pm: Experiment 4 Worksheet Experiment 5 Prelab 2610 new
Thu	10/8	Experiment 6	Statics, Dynamics and the Force of Friction	Due 10/12 at 2pm: Experiment 6 Prelab Due 10/12 at 11:59pm: Experiment 5 Worksheet
Thu	10/15	Experiment 7	Rotation and Newton's Second Law: Uniform Circular Motion	Due 10/19 at 2pm: Experiment 7 PreLab Experiment 6 Worksheet
Thu	10/22	Experiment 8	Inelastic Collisions and Momentum Conservation: The Ballistic Pendulum	Due 10/26 at 2pm: Experiment 8 Prelab Experiment 7 Individual Lab Report
Thu	10/29	Experiment 9	Energy Conservation in Rotation	Due 11/2 at 2pm: Experiment 9 Prelab Experiment 8 Worksheet
Thu	11/5	Experiment 10	Simple Harmonic Motion: The Oscillating Mass-Spring System	Due 11/9 at 2pm: Experiment 10 Prelab Experiment 9 Worksheet
Thu	11/12	Experiment 11	Wave Motion: Standing Waves and the Stretched String	Due 11/16 at 2pm: Experiment 11 Prelab Experiment 10 Individual Lab Report
Thu	11/19	Experiment 12	Wave Motion: Standing Waves and the Speed of Sound	Due 11/23 at 2pm: Experiment 12 Prelab Experiment 11 Worksheet
Thu	11/26		Make-up Labs	Due 11/30 at 2pm: Experiment 12 Worksheet
Thu	12/3		FINALS WEEK: NO LAB	

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.