

Physics Lab Experiment Schedule Fall 2025

Week	1*	2	3	4	5**	6	7	8	9	10***	11	12	13****	14*****
Dates	9/2(T) - 9/8(M)	9/9(T) - 9/15(M)	9/16(T) - 9/22(M)	9/23(T) - 9/29(M)	9/30(T) - 10/6(M)	10/7(T) - 10/13(M)	10/14(T) - 10/20(M)	10/21(T) - 10/27(M)	10/28(T) - 11/3(M)	11/4(T) - 11/10(M)	11/11(T) - 11/17(M)	11/18(T) - 11/24(M)	11/25(T) - 12/3(W)	12/4(R) - 12/11(R)
102A	Intro	104	109	111	112	113	106	131	122	126	127N	120N	103	121
	Error Analysis	Creating Motion	One Dimensional Motion	Projectile Motion	Newton's Second Law	Atwood's Machine	Static & Kinetic Frictions	Centripetal Force	Conservation of Energy for an Object on an Inclined Plane	Conservation of Momentum & Impulse-Momentum Theorem	Torque and Rotational Inertia	Conservation of Angular Momentum	Translational Static Equilibrium Force	Rotational Static Equilibrium Forces
103A	Intro	A	7	D	E	F	G	B1	W	J	H	215	M	N
	Error Analysis	Young's Modulus	Archimedes' Principle & Density	Linear Expansion Coefficient	Specific Heat	Heat of Fusion of Ice	Mechanical Equivaent of Heat	Simple Harmonic Motion	Transverse Standing Waves on a String	Longitudinal Standing Waves in a Sound Tube	Conservation of Electrical Energy to Heat	Ohm's Law	Lenses	Grating Diffraction
111A	Intro	103	109	111	112	106	6a1	125	126	114	9a1	127	121	7
	Error Analysis	Translational Static Equilibrium Force	One Dimensional Motion	Projectile Motion	Newton's Second Law	Static & Kinetic Frictions	Work and Kinetic Energy	Conservation of Energy in Spring-Mass System	Conservation of Momentum and Impulse Theorem	Uniform Circular Motion	Moment of Inertia and Energy in Rotational Motion	Torque and Rotational Inertia	Rotational Static Equilibrium Forces	Archimedes' Principle & Density
121A	Intro	Table	Motion	201	202	205	205	215	217	212	210	223	218	221
	Error Analysis	MATLAB 1 and Matlab	Electric Charge & Force	Electric Field by Point Charge	Numerical Verification of Gauss Law	Electric Potential and Electric Field	Parallel Plate Capacitor	Ohm's Law	RC Circuit	Measurement of e/m for an Electron	Helmholtz Coil	Faraday's Law	RL Circuit	LC Circuit
121A	Intro	MATLAB 2	Force	Charge	203	202	205	215	217	212	210	223	218	221
mirroring section	Error Analysis	MATLAB 1 and Matlab	Electric Charge & Force	Electric Field by Point Charge	Electric Potential and Electric Field	Numerical Verification of Gauss Law	Parallel Plate Capacitor	Ohm's Law	RC Circuit	Measurement of e/m for an Electron	Helmholtz Coil	Faraday's Law	RL Circuit	LC Circuit
027	Intro	B2	CO	W	J	K	LP	N1	N2	N	P	S	Q	U
231A	Matlab & Error Analysis	Simple Harmonic Motion	Physical Pendulum with Small & Large Amplitude	Transverse Standing Waves on a String	Longitudinal Standing Waves in a Sound Tube	Refraction, Reflection and Dispersion of Light	Polarization of Light (Malus's Law)	Diffraction Pattern of Light with a Single Slit	Diffraction Pattern of Light with a Double Slit	Diffraction Grating	Photoelectric Effect	Spectra - Hydrogen and Helium	Electron Diffraction	Semiconductor Diode Characteristics
202A	Intro	1	2	3	4	5	6	7	8	9	10	11	12	13
		The Celestial Sphere: Horizon Coordinate System	The Celestial Sphere: The Ecliptic	The Celestial Sphere: Equatorial Coordinate System & Sidereal Time	Motion of Mercury: Drawing the Orbit	Orbit of Mercury: Kepler's Laws	The Moon	Planetary Configuration	The Synodic Period of the Sun	Spectroscopy	Reflection and Refraction	Thin Lenses and Astronomical Telescope	The Hertzprung-Russel Diagram	The Hubble Classification of Galaxies and Cosmology
203A	Intro	1	2	3	4	5	6	7	8	9	10	11	12	13
		Earth's Geography I	Earth's Geography II	Rock Identification	Properties of Water: Latent Heat of Fusion	Earthquakes: Locating the Epicenter	Understanding density	The Archimedes' Principle	The Acceleration Due to Gravity	Properties of Water: Specific Heat	Properties of Water: Dissolved oxygen	Properties of Water: Salinity	The Ideal Gas Law: Determining the Absolute Zero of Temperature	None

\* 9/8 (Mon.) Last Day to add/drop a class

\*\* 10/2 (Thurs.) Wellness Day

\*\*\* 11/10 (Mon) Last Day to Withdraw from Classes

\*\*\*\* 11/25 (Tue) Thursday classes meet

\*\*\*\* 11/26 (Wed) Friday classes meet

\*\*\*\* 11/27 (Thurs.) and 11/28 (Fri.) Thanksgiving Recess Begins. No classes

\*\*\*\*\* 12/11 (Thurs.) Lab experiment in Week 5 (which was skipped on Wellness Day) will be performed.

12/22 (M) Final Grades Due