Physics Lab Experiment Schedule Spring 2024

Week	1*	2	3	4	5	6	7	8**	9	10***	11	12	13	14****
Dates	1/16(T) - 1/22(M)	1/23(T) - 1/29(M)	1/30(T) - 2/5(M)	2/6(T) - 2/12(M)	2/13(T) - 2/19(M)	2/20(T) - 2/26(M)	2/27(T) - 3/4(M)	3/5(T) - 3/18(M)	3/19(T) - 3/25(M)	3/26(T) - 4/1(M)	4/2(T) - 4/8(W)	4/9(T) - 4/15(M)	4/16(T) - 4/22(M)	4/22(T) - 4/30(T)
102A	Intro	104	109	111	112	113	106	131	122	126	127N	120N	103	121
Interface														
		Creating Motion	One Dimensional		Newton's Second		Static & Kinetic		Conservation of	Conservation of	Torque and	Conservation of	Translational Static	Rotational Static
	Error Analysis			Projectile Motion		Atwood's Machine		Centripetal Force	Energy for an Object	Momentum & Impulse-Momentum			Equilibrium Force	Equilibrium Forces on
1 1		Graph	Motion		Law		Frictions		on an Inclined Plane	Theorem	Rotational Inertia	Angular Momentum	Table	a Strut
103A	Intro	Α	7	D	E	F	G	B1	W	J	Н	215	M	N
Interface														
1			Archimedes' Principle	Linear Expansion			Mechanical	Simple Harmonic	Transverse Standing	Longitudinal Standing	Conservation of			
	Error Analysis	Young's Modulus			Specific Heat	Heat of Fusion of Ice				Waves in a Sound	Electrical Energy to	Ohm's Law	Lenses	Grating Diffraction
			& Density	Coefficient			Equivlaent of Heat	Motion	Waves on a String	Tube	Heat			
111A	Intro	103	109	111	112	106	6a1	125	126	114	9a1	127	121	7
	Error Analysis	Translational Static Equilibrium Force	One Dimensional	Projectile Motion	Newton's Second	Static & Kinetic	Work and Kinetic	Conservation of Energy in Spring-	Conservation of Momentum and	Uniform Circular	Moment of Inertia	Torque and	Rotational Static Equilibrium Forces on	Archimedes' Principle
1 1							_						a	0.5
121A	Intro	Table Matlab	Motion 200	201	Law 202	Frictions 203	Energy 205	Mass System 215	Impulse Theorem 217	Motion 212	Rotational Motion 210	Rotational Inertia 223	a Strut 218	& Density 221
IZIA	Error Analysis &	IVIdLIdD		Electric Field by Point		Electric Potential and	Parallel Plate	213	21/	Measurement of e/m	210	223	210	221
	MATLAB 1	MATLAB 2	Force	Charge	Verification of Gauss		Capacitor	Ohm's Law	RC Circuit	for an Electron	Helmholtz Coil	Faraday's Law	RL Circuit	LC Circuit
231A	Intro	B2	C&O	W	J	K	LP	N1	N2	N	P	S	Q	U
	Matlab & Error	Simple Harmonic	Physical Pendulum		Longitudinal Standing	Refraction, Reflection	Polarization of Light					Emission Spectrum of		Semi-conductor
		·	with Small & Large		Waves in a Sound	and Dispersion of		Light with a Single	Light with a Double	Grating Diffraction	Photoelectric Effect	·	Electron Diffraction	
	Analysis	Motion	Amplitude	Waves on a String	Tube	Light	(Malus's Law)	Slit	Slit			Hydrogen Atom		Diode Characteristics
202A	Intro	1	2	3	4	5	6	7	8	9	10	11	12	13
		The Celestial Sphere:	The Celestial Sphere:	The Celestial Sphere:	Motion of Mercury:	Orbit of Mercury:		Planetary	The Synodic Period of		Reflection and	Thin Lenses and	The Hertzsprung-	The Hubble
		Horizon Coordinate		Equatorial			The Moon			Spectroscopy		Astronomical		Classification of
		Tiorizon Coordinate		Coordinate System &			THE WIDOH			эреспозсору		Astronomical		Galaxies and
		System	The Ecliptic	Sidereal Time	Drawing the Orbit	Kepler's Laws		Configuration	the Sun		Refraction	Telescope	Russel Diagram	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:	Earthquakes: Locating the	Understanding	The Archimedes'	The Acceleration Due	Properties of Water:	Properties of Water:	Properties of Water:	The Ideal Gas Law: Determining the Absolute Zero of	None
					Latent Heat of Fusion	Epicenter	density	Principle	to Gravity	Specific Heat	Dissolved oxygen	Salinity	Temperature	

^{* 1/22 (}Monday) Last Day to add/drop a class

^{** 3/11 (}Mon.) through 3/16 (Sat.) NJIT Spring Recess. No Classes.

^{*** 3/29 (}Fri.) Good Friday. No Classes.

^{*** 4/1 (}Mon.) Last Day to Withdraw

^{***** 4/30 (}Tue.) Friday classes meet. Lab experiment in Week 10 (skipped on Good Friday) will be performed.