Syllabus		**Phys 238**	**Spring 2025**
Jan.	27	Introduction & Overview	Taylor Chs. 1–2
	29	The Simple Pendulum	
	31	Writing reports in LaTeX; Introduction to Uncertainty	Taylor Ch. 3
Feb.	3	Statistical Analysis	Taylor Ch. 4
	5	Normal Distribution	Taylor Ch. 5
	7	Pendulum Report Due; Least Squares; Mathematical Tools	Taylor Ch. 5
	10	Torsional Pendulum (Part 1)	
	12	Torsional Pendulum *continued*	
	14	HW #1; Linear fits	Taylor Ch. 8
	17	Nonlinear fits	Taylor Ch. 8
	19	Torsional Pendulum *continued*	
	21	Torsional (1) Report Due; Damped Oscillations	
	24	Torsional Pendulum (Part 2)	
	26	HW #2; Torsional Pendulum (2) *continued*	
	28	Numerical Modeling; Air drag	
Mar.	3	*continued*	
	5	Torsional (2) Report Due; Numerical Modeling *continued*	
	7	Resonance—Theory	
	10	Mechanical Resonance	
	12	*continued*	
	14	HW #3; Resonance *continued*	
	17–21	*Spring Break*	
	24	*continued*	
	26	Complex Impedance	
	28	Resonance Report Due; RLC Circuits—Theory	
	31	RLC Damped Oscillations—Experiment	
Apr.	2	RLC *continued*	
	4	*continued*	
	7	RLC Report Due; RLC Resonance—Theory	
	9	HW #4; RLC Resonance Experiment	
	11	*continued*	
	14	*continued*	
	16	Fourier Analysis	
	18	RLC Resonance Report due; Fourier Analysis *continued*	
	21	Fourier Analysis *continued*	
	23	HW #5; Oral Reports	
	25	Oral Reports	
	28	AC Filters	
	30	Oral Reports	
May	2	Oral Reports	
	5	AC Filters Report Due; Superconductivity	
	7	Oral Reports	
	9	HW #6	
	14	Superconductivity Report Due	

Revised March 30, 2025