

Physics Advanced Laboratory Syllabus:*

Masks and Face-Shields are required in the lab

Week	Topic	Oral Exam Date	Notes
Experiment 1: Quantum Mechanics (2 weeks)			
1 (31 Aug -4 Sept)	Expt. #1: Franck-Hertz Process		
2 (7-11 Sept)	Expt. #1: FH (continued)	Sept. 10	
Experiment 2: Optical Diffraction and Interference (3 weeks)			
3 (14-18 Sept)	Expt. #2: Multi-slit diffraction with light		1:00-3:00 Sept. 17 Scattering Lecture
4 (21-25 Sept)	Expt. #2: Multi-slit (continued)		
5 (28 Sept-2 Oct)	Expt. #2: Multi-slit (continued)	Oct. 1	write-up due: Oct. 5
Experiments 3-4: Solid State Physics (3 weeks)			
6 (5-9 Oct)	Expt. #3: X-Ray I: Bragg Diffraction		1:00-3:00 Oct. 8 Solid State Lecture
7 (12-16 Oct)	Expt. #3/4: X-Ray I/II: Bragg/Laue Diffraction		
8 (19-23 Oct)	Expt. #4: X-Ray II: Laue Diffraction	Oct. 22 (both X-Ray I & II)	
Experiments 5-7: Nuclear Physics (4 weeks)			
9 (26-30 Oct)	Expt. #5: Nuclear Physics I: Geiger Tube		1:00-3:00 Oct. 29 Nuclear Lecture
10 (2-6 Nov)	Expt. #6: Nuclear Physics II: Single Channel Analyzer	Nov. 5 (Nuc I)	
11 (9-13 Nov)	Expt. #7: Nuclear Physics III: Gamma Ray Spectroscopy		
12 (16-20 Nov)	Expt. #7: Nuclear Physics III (continued)		
Final Exam Period		Mon. Nov. 23 (both Nuc II & III)	

*Note: This schedule is subject to change through the term.