

Physics 6980/8980 Spring 2014
Advanced characterization techniques for materials Research

Class Hours: MW 10:00 AM – 11:30 AM
 Classroom: R1

Instructor: Professor Yanfa Yan Grading: Presentation
 Office Hour: MW 1- 3 PM

Tentative course schedule.

	Monday (10AM-11:30AM)	Wednesday (10AM-11:30AM)
Jan	6	8
	13 (Overview)	15 Imaging Techniques (Yanfa)
	20 MLK Holiday	22 Imaging Techniques
	27 Special topics	29 Special topic/Electron beam Instrument
Feb	3 Electron beam Instrument	5 Structural Determination
	10 Structural Determination	12 Electron Emission Spectroscopies
	17 Electron Emission Spectroscopies	19 X-Ray Emission Techniques
	24 X-Ray Emission Techniques	26 Visible/UV Emission, Reflection, and Absorption
March	3 (Spring Break)	5 (Spring Break)
	10 Visible/UV Emission, Reflection, and Absorption	12 Vibrational Spectroscopy and NMR
	17 Vibrational Spectroscopy and NMR	19 Ion Scattering Techniques
	24 Ion Scattering Techniques	26 Mass and Optical Spectroscopy
April	31 Mass and Optical Spectroscopy	2 Mass and Optical Spectroscopy
	7 Mass and Optical Spectroscopy	9 Neutron and Nuclear Techniques
	14 Neutron and Nuclear Techniques	16 Physical and Magnetic Properties
	21 Measurement of Semiconductors	23 Measurement of Semiconductors
	28 Final presentation	