

Earth Sciences 734/834, Applied Geophysics, Fall 2008

CLASS	DATE	TOPIC	
1	W Sept 3	Seismic Refraction, Seismic Waves	
2	F 5	Snell's Law of Refraction	
3	M 8	Single Horizontal Layer	single channel seismograph
4	W 10	Multiple Horizontal Layers	
5	F 12	Dipping Layers	
6	M 15	Irregular Layers	12-channel seismograph
7	W 17	Seismic Tomography	
8	F 19	HOUR EXAM I	
9	M 22	Seismic Reflection, Travel Times	single channel marine profile
10	W 24	Common-Mid-Point Method	
11	F 26	Velocity Analysis	
12	M 29	Migration	East Texas Basin
13	W Oct 1	Rayleigh Reflection Coefficients	
14	F 3	Surface Wave Dispersion	
15	M 6	Horizontal and Vertical Resolution	migration, diffraction
16	W 8	Seismic Stratigraphy	
17	F 10	HOUR EXAM II	
18	M 13	Resistivity, Apparent Resistivity	resistivity profile
19	W 15	Arrays, Two-Layer Soundings	
	F 17	UNH HOLIDAY	
20	M 20	Three-Layer Soundings	Resistivity soundings
21	W 22	Inversion, Least Squares	
22	F 24	Inversion, Genetic Algorithms	
23	M 27	Inversion, Occam's Inversion	2-D resistivity images
24	W 29	Azimuthal Resistivity	
25	F 31	Resistivity of Earth Materials	
26	M Nov 3	HOUR EXAM III	elevation effect experiment
27	W 5	Newton's Law of Gravitation	
28	F 7	Gravity Anomaly Definitions	
29	M 10	Simple Geometrical Bodies	Exeter Pluton model
30	W 12	Simple Geometrical Bodies	
31	F 14	Regional and Residual Separation	
32	M 17	Gradient Anomalies	simple geometrical bodies
33	W 19	Case History	
34	F 21	HOUR EXAM IV	
35	M 24	Magnetic Field B	magnetic survey
36	W 26	B Field of Dipoles and Earth	
37	M Dec 1	Induced Magnetization, Susceptibility	susceptibility survey
38	W 3	Remanent Magnetization	
39	F 5	Vertical Field Anomalies	
40	M 8	Total Field Anomalies	magnetic anomaly maps
41	W 10	Temporal Variations of Field	
42	F 12	Case Histories	